Appendix B-4

Greenhouse Gas Analysis Report

Mesa Verde Specific Plan

GREENHOUSE GAS ANALYSIS

CITY OF CALIMESA

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LIST OF ABBREVIATED TERMS

%	Percent
°C	Degrees Celsius
°F	Degrees Fahrenheit
(1)	Reference
2017 Scoping Plan	*Final 2017 Scoping Plan Update*
AB	Assembly Bill
AB 32	Global Warming Solutions Act of 2006
AB 1493	Pavley Fuel Efficiency Standards
AB 1881	California Water Conservation Landscaping Act of 2006
Annex I	Industrialized Nations
APA	Administrative Procedure Act
AQIA	*Mesa Verde Specific Plan Air Quality Impact Analysis*
BAU	Business as Usual
C_2F_6	Hexafluoroethane
C_2H_6	Ethane
$C_2H_2F_4$	Tetrafluroethane
$C_2H_4F_2$	Ethylidene Fluoride
CAA	Federal Clean Air Act
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
CALGAPS	California LBNL GHG Analysis of Policies Spreadsheet
CALGreen	California Green Building Standards Code
CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resource Board
CBSC	California Building Standards Commission
CEC	California Energy Commission
CCR	California Code of Regulations
CEQA	California Environmental Quality Act
CEQA Guidelines	*2019 CEQA Statute and Guidelines*
CDFA	California Department of Food and Agriculture
CF_4	Tetrafluoromethane
CFC	Chlorofluorocarbons
CFC-113	Trichlorotrifluoroethane

CH_4	Methane
City	City of Calimesa
CNRA	California Natural Resources Agency
CNRA 2009	*2009 California Climate Adaptation Strategy*
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent
Convention	United Nation's Framework Convention on Climate Change
COP	Conference of the Parties
CPUC	California Public Utilities Commission
CTC	California Transportation Commission
DOF	Department of Finance
DWR	Department of Water Resources
EMFAC	Emission Factor Model
EPA	Environmental Protection Agency
EV	Electric Vehicle
FED	Functional Equivalent Document
GCC	Global Climate Change
Gg	Gigagram
GHGA	Greenhouse Gas Analysis
GO-Biz	Governor's Office of Business and Economic Development
gpd	Gallons Per Day
gpm	Gallons Per Minute
GWP	Global Warming Potential
H_2O	Water
HFC	Hydrofluorocarbons
HDT	Heavy-Duty Trucks
HFC-23	Fluoroform
HFC-134a	1,1,1,2-tetrafluoroethane
HFC-152a	1,1-difluoroethane
HHDT	Heavy-Heavy-Duty Trucks
hp	Horsepower
IBANK	California Infrastructure and Economic Development Bank
IPCC	Intergovernmental Panel on Climate Change
IRP	Integrated Resource Planning
ISO	Independent System Operator
ITE	Institute of Transportation Engineers
kWh	Kilowatt Hours
lbs	Pounds

LBNL	Lawrence Berkeley National Laboratory
LCA	Life-Cycle Analysis
LCD	Liquid Crystal Display
LCFS	Low Carbon Fuel Standard or Executive Order S-01-07
LDA	Light-Duty Auto
LDT1/LDT2	Light-Duty Trucks
LEV III	Low-Emission Vehicle
LHDT1/LHDT2	Light-Heavy-Duty Trucks
LULUCF	Land-Use, Land-Use Change and Forestry
MCA	Municipal Code Amendment
MCY	Motorcycles
MD	Medium Duty
MDT	Medium-Duty Trucks
MDV	Medium-Duty Vehicles
MHDT	Medium-Heavy-Duty Trucks
MMR	Mandatory Reporting Rule
$MMTCO_2e$	Million Metric Ton of Carbon Dioxide Equivalent
mpg	Miles Per Gallon
MPOs	Metropolitan Planning Organizations
$MMTCO_2e/yr.$	Million Metric Ton of Carbon Dioxide Equivalent Per Year
MT/yr.	Metric Tons Per Year
$MTCO_2e$	Metric Ton of Carbon Dioxide Equivalent
$MTCO_2e/yr.$	Metric Ton of Carbon Dioxide Equivalent Per Year
MW	Megawatts
MWh	Megawatts Per Hour
MWELO	California Department of Water Resources' Model Water Efficient
N_2O	Nitrous Oxide
NDC	Nationally Determined Contributions
NF_3	Nitrogen Trifluoride
NHTSA	National Highway Traffic Safety Administration
NIOSH	National Institute for Occupational Safety and Health
NO_X	Nitrogen Oxides
Non-Annex I	Developing Nations
OAL	Office of Administrative Law
OPR	Office of Planning and Research
PFC	Perfluorocarbons
ppb	Parts Per Billion

ppm	Parts Per Million
ppt	Parts Per Trillion
Project	Mesa Verde Specific Plan
RTP	Regional Transportation Plan
SAFE	Safer Affordable Fuel-Efficient Vehicles Rule
SB	Senate Bill
SB 32	California Global Warming Solutions Act of 2006
SB 375	Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies
SB 1078	Renewable Portfolio Standards
SB 1368	Statewide Retail Provider Emissions Performance Standards
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
Scoping Plan	California Air Resources Board Climate Change Scoping Plan
SCS	Sustainable Communities Strategy
sf	Square Feet
SF_6	Sulfur Hexaflouride
SGC	Strategic Growth Council
SHGC	Solar Heat Gain Coefficient
SLPS	Short-Lived Climate Pollutant Strategy
SP	Service Population
SWCRB	State Water Resources Control Board
TDM	Transportation Demand Measures
Title 20	Appliance Energy Efficiency Standards
TRU	Transport Refrigeration Unit
Title 24	California Building Code
U.N.	United Nations
U.S.	United States
UNFCCC	United Nations' Framework Convention on Climate Change
URBEMIS	Urban Emissions
UTR	Utility Tractors
VFP	Vehicle Fueling Positions
VMT	Vehicle Miles Traveled
WCI	Western Climate Initiative
WRI	World Resources Institute

ZE/NZE	Zero and Near-Zero Emissions
ZEV	Zero-Emissions Vehicles

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Mesa Verde Specific Plan Greenhouse Gas Analysis* (GHGA) are summarized below based on the significance criteria in Section 4 of this report consistent with Appendix G of the *CEQA Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of GHG impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
GHG Impact #1: The Project would not generate direct or indirect GHG emissions that would result in a significant impact on the environment.	3.8	*Potentially Significant*	*Significant and Unavoidable*
GHG Impact #2: The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.	3.8	*Potentially Significant*	*Less Than Significant*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the State of California and the South Coast Air Quality Management District (SCAQMD) aimed at the reduction of air pollutant emissions. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of GHG emissions include:

- Global Warming Solutions Act of 2006 (Assembly Bill [AB] 32) (2).
- Regional GHG Emissions Reduction Targets/Sustainable Communities Strategies (Senate Bill [SB] 375) (3).
- Pavley Fuel Efficiency Standards (AB 1493). Establishes fuel efficiency ratings for new vehicles (4).
- California Building Code (Title 24 California Code of Regulations [CCR]). Establishes energy efficiency requirements for new construction (5).
- Appliance Energy Efficiency Standards (Title 20 CCR). Establishes energy efficiency requirements for appliances (6).
- Low Carbon Fuel Standard (LCFS). Requires carbon content of fuel sold in California to be 10 percent (%) less by 2020 (7).
- California Water Conservation in Landscaping Act of 2006 (AB 1881). Requires local agencies to adopt the Department of Water Resources updated Water Efficient Landscape Ordinance or equivalent to ensure efficient landscapes in new development and reduced water waste in existing landscapes (8).

- Statewide Retail Provider Emissions Performance Standards (SB 1368). Requires energy generators to achieve performance standards for GHG emissions (9).
- Renewable Portfolio Standards (SB 1078 – also referred to as RPS). Requires electric corporations to increase the amount of energy obtained from eligible renewable energy resources to 20% by 2010 and 33% by 2020 (10).
- California Global Warming Solutions Act of 2006 (SB 32). Requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15 (11).
- SCAQMD Rule 2305. The SCAQMD adopted Rule 2305, the Warehouse Indirect Source Rule, on May 7, 2021. Owners and operators associated with warehouses 100,000 square feet (sf) or larger are required to directly reduce nitrogen oxides (NO_X) and particulate matter emissions, or to otherwise facilitate emission and exposure reductions of these pollutants in nearby communities.

ES.3 PROJECT MITIGATION MEASURES

The following Project-specific mitigation measures (MM GHG-1 through MM GHG-3) are designed to reduce Project operational-source GHG emissions.

MM GHG-1

Prior to the issuance of building permits, the Project Applicant or its designee shall provide evidence to the City of Calimesa that the Project's design plans include the following energy efficiency and conservation measures, including:

- Install Energy Star-rated heating, cooling, lighting, and appliances.
- Install solar photovoltaic panel systems on building rooftops or above surface parking (or equivalent structure[s]) at the Project site, where available, in compliance with that which is required under the 2022 Title 24 Building Energy Efficiency Standards (Part 6 of Title 24 of the California Code of Regulations). For purposes of this measure, "availability" is dependent on building rooftop space that is otherwise not utilized for purposes of circulation, HVAC, or other necessary building equipment, and would meet solar radiation specification standards outlined in Part 6 of Title 24 of the California Code of Regulations. Solar photovoltaic panel systems shall be sized to meet the energy demand requirements of the associated building or structure(s).
- Outdoor lighting shall be light emitting diodes (LED) or other high-efficiency lightbulbs.
- Install Cool Pavement. Prior to the issuance of building permits, the Project applicant or its designee shall submit building plans illustrating installation of cool pavements in place of dark pavements. Outdoor pavements, such as walkways and patios, shall use paving materials with three-year solar reflectance index (SRI) of 0.28 or initial SRI of 0.33.
- Provide information on energy efficiency, energy efficient lighting and lighting control systems, energy management, and existing energy incentive programs to future residents of the Project.
- Design the Project to meet Leadership in Energy and Environmental Design (LEED) standards.

MM GHG-1 is quantified in the analysis within the mitigation module of CalEEMod, wherein the installation of Energy Star refrigerators, clothes washers, and dishwashers was selected for the residential land uses.

MM GHG-2

Prior to the issuance of building permits, the Project Applicant or its designee shall provide evidence to the City of Calimesa that the Project's design plans include the following water use efficiency and conservation measures, including:

- High-efficiency appliances/fixtures to reduce water use, and/or include water-efficient landscape design
- Low-flow or high-efficiency water fixtures
- Water-efficient landscapes with lower water demands than required by the California Department of Water Resources (DWR) 2015 Model Water Efficient Landscape Ordinance (MWELO)
- Planting of native and drought-tolerant plant species only
- Provide educational materials to future tenants and building occupants about water saving behaviors and water-conserving landscaping.

MM GHG-2 is quantified in the analysis within the mitigation module of CalEEMod, wherein the use of low-flow kitchen faucets, dishwashers, and clothes washers was selected for the residential land uses.

MM GHG-3

Prior to the issuance of building permits for the Project, the Project Applicant shall provide building plans that include the following solid waste reduction measure:

- Provide storage areas for recyclables and green waste in new construction, and food waste storage, if a pick-up service is available.

MM GHG-3 is not quantified in the operational analysis.

ES.4 Additional Mitigation Measures

The following Project-specific mitigation measures (MM AQ-9 through MM AQ-30) were identified in the *Mesa Verde Specific Plan Air Quality Impact Analysis Report* (AQIA) (Urban Crossroads, Inc.) (12). These measures are designed to reduce Project operational-source emissions. However, it should be noted that there is no way to quantify these reductions in the California Emissions Estimator Model (CalEEMod), and therefore, to provide a conservative disclosure of Project emissions, no reductions in emissions are assumed to occur even with implementation of the below measures. Notwithstanding the foregoing, it is likely that all of the below measures will decrease Project emissions somewhat.

MM AQ-9

Construct, contribute, or dedicate land for the provision of on- site bicycle trails linking the facility to designated bicycle commuting routes.

MM AQ-9 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-10

Provide site improvements such as street furniture, route signs, bus turnouts, and sidewalks or pedestrian paths.

MM AQ-10 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-11

Build homes that exceed minimum statewide energy and water conservation construction requirements, such as:

- Use of low emission water heaters. Installation of low emission water heaters shall be verified by the Building Division during plan check.
- Use of energy efficient appliances. Installation of Energy Star appliances shall be verified by the Building Division during plan check.
- Use of light colored/earth tone roof tiles
- Exceed Title 24 energy efficiency requirements and/or offset building energy use through installation of photovoltaic panels on residential and non-residential buildings.
- Level 2 electric vehicle charging stations in single-family residential garages. The location of the electrical outlets shall be specified on building plans, and proper installation shall be verified by the Building Division prior to issuance of a Certificate of Occupancy.
- Use of low-flow water fixtures

MM AQ-11 is quantified in the analysis within the mitigation module of CalEEMod, wherein the installation of Energy Star refrigerators, clothes washers, and dishwashers as well as the use of low-flow kitchen faucets, dishwashers, and clothes washers was selected for the residential land uses.

MM AQ-12

For the warehouse/industrial portion of the Project, the buildings' electrical room shall be sufficiently sized to hold additional panels that may be needed to supply power for the future installation of electric vehicle (EV) truck charging stations on the site. Conduit should be installed from the electrical room to tractor trailer parking spaces in a logical location(s) on the site determined by the Project Applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available and the buildings are being served by trucks with electric-powered engines.

MM AQ-12 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-13

For the warehouse/industrial portion of the Project, the buildings' electrical room shall be sufficiently sized to hold additional panels that may be needed in the future to supply power to trailers with transport refrigeration units (TRUs) during the loading/unloading of refrigerated

goods. Conduit should be installed from the electrical room to the loading docks determined by the Project Applicant during construction document plan check as the logical location(s) to receive trailers with TRUs.

MM AQ-13 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-14

Upon occupancy and annually thereafter, the facility operator shall provide information to all tenants, with instructions that the information shall be provided to employees and truck drivers as appropriate, regarding:

- Building energy efficiency, solid waste reduction, recycling, and water conservation.
- Vehicle GHG emissions, electric vehicle charging availability, and alternate transportation opportunities for commuting.
- Participation in the Voluntary Interindustry Commerce Solutions (VICS) "Empty Miles" program to improve goods trucking efficiencies.
- Health effects of diesel particulates, State regulations limiting truck idling time, and the benefits of minimized idling.
- The importance of minimizing traffic, noise, and air pollutant impacts to any residences in the Project vicinity.

MM AQ-14 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-15

Prior to issuance of a building permit, the project proponent shall provide the City with an onsite signage program that clearly identifies the required onsite circulation system, for the industrial portion of the Project. This shall be accomplished through posted signs and painting on driveways and internal roadways.

MM AQ-15 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-16

Prior to issuance of an occupancy permit, the City shall confirm that signs clearly identifying approved truck routes have been installed along the truck routes to and from the Project site.

MM AQ-16 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-17

Prior to issuance of an occupancy permit, the project proponent for the industrial portion of the Project, shall install a sign on the property with telephone, email, and regular mail contact information for a designated representative of the tenant who would receive complaints about excessive noise, dust, fumes, or odors. The sign shall also identify contact data for the City for

perceived Code violations. The tenant's representative shall keep records of any complaints received and actions taken to communicate with the complainant and resolve the complaint. The tenant's representative shall endeavor to resolve complaints within 24 hours.

MM AQ-17 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-18

Prior to issuance of a building permit for the business park portion of the Project, the project proponent shall provide the City with project specifications, drawings, and calculations that demonstrate that main electrical supply lines and panels have been sized to support heavy truck charging facilities when these trucks become available. The calculations shall be based on reasonable predictions from currently available truck manufacturer's data. Electrical system upgrades that exceed reasonable costs shall not be required.

MM AQ-18 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-19

All on-site outdoor cargo-handling equipment (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) shall be electric or non-diesel fueled. All on-site indoor forklifts shall be powered by electricity.

The analysis conservatively assumed all outdoor cargo-handling equipment would be natural gas-powered.

MM AQ-20

Prior to issuance of occupancy permits for the business park portion of the Project, the Project operator shall prepare and submit a Transportation Demand Management (TDM) program detailing strategies that would reduce the use of single occupant vehicles by employees by increasing the number of trips by walking, bicycle, carpool, vanpool and transit. The TDM shall include, but is not limited to the following:

- Provide a transportation information center and on-site TDM coordinator to educate employers, employees, and visitors of surrounding transportation options.
- Promote bicycling and walking through design features such as showers for employees, self-service bicycle repair area, etc. around the project site.
- Provide secure bicycle storage space equivalent to two percent of the automobile parking spaces provided.
- Provide on-site car share amenities for employees who make only occasional use of a vehicle, as well as others who would like occasional access to a vehicle of a different type than they use day-to-day.
- Promote and support carpool/vanpool/rideshare use through parking incentives and administrative support, such as ride-matching service.

- Incorporate incentives for using alternative travel modes, such as preferential load/unload areas or convenient designated parking spaces for carpool/vanpool users.
- Provide meal options on-site or shuttles between the facility and nearby meal destinations.
- Each building shall provide preferred parking for electric, low-emitting and fuel - efficient vehicles equivalent to at least eight percent of the required number of parking spaces.

MM AQ-20 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-21

Prior to tenant occupancy, the Project Applicant or successor in interest shall provide documentation to the City demonstrating that occupants/tenants of the Project site have been provided informational documentation regarding:

- Information regarding energy efficiency, energy-efficient lighting and lighting control systems, energy management, and existing energy incentive programs
- Information regarding and a recommendation to use electric or alternatively fueled sweepers with high efficiency particulate air (HEPA) filters.

MM AQ-21 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-22

The Project applicant or designee shall provide electric vehicle (EV) charging infrastructure that meets or exceeds 2022 California Green Building Standards Code Tier 2 standards to encourage use of EVs.*MM AQ-22 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.*

MM AQ-23

The Project applicant shall implement the following landscape maintenance equipment reduction measures:

- Prior to the issuance of building permits, the Project applicant or its designee shall provide evidence to the City of Calimesa that the design plans include electrical outlets on the exterior of the structure to facilitate use of electrical lawn and garden equipment.
- The applicant (or its designee) or Project's future Homeowners' Association shall educate future residents about the South Coast Air Quality Management District (SCAQMD) Electric Lawn Mower Rebate Program and the Commercial Electric Lawn and Garden Equipment Exchange Program. When conventional gasoline-powered yard equipment (e.g., lawn mowers, leaf blowers and vacuums, shredders, trimmers, and chain saw) are exchanged for electric and rechargeable battery-powered yard equipment, direct greenhouse gas (GHG) emissions from fossil-fuel combustion are displaced by indirect GHG emissions associated with the generation of electricity used to power the equipment.

The analysis conservatively did not take credit for the use of electric-powered landscape maintenance equipment.

MM AQ-24

Prior to tenant occupancy, the Project Applicant or successor(s) in interest shall provide documentation to the City demonstrating that occupants/tenants of the Project site have been provided documentation on funding opportunities, such as the Carl Moyer Program, that provide incentives for using cleaner-than-required engines and equipment. In addition, the tenants shall be required to enroll in the United States Environmental Protection Agency's SmartWay program and be required to utilize carriers that are SmartWay carriers.

MM AQ-24 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-25

Update the Regional Growth Forecast. The applicant has informed the Southern California Association of Governments (SCAG) of the Project so that SCAG's next Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (anticipated to be 2028) can appropriately reflect residential housing, population, and employment locations and forecasts in the City of Calimesa. The updated information provided to SCAG is anticipated to be used by the SCAQMD to update the Air Quality Management Plan (AQMP). The applicant shall prepare and submit a letter notifying SCAQMD of this revised forecast for use in the future updates to the AQMP as required.

MM AQ-25 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-26

All facility-owned and operated fleet equipment with a gross vehicle weight rating greater than 14,000 pounds accessing the site shall meet or exceed 2010 model year emissions equivalent engine standards as currently defined in California Code of Regulations Title 13, Division 3, Chapter 1, Article 4.5, Section 2025. Facility operators shall maintain records on-site demonstrating compliance with this requirement and shall make records available for inspection by the local jurisdiction, air district, and state upon request.*MM AQ-26 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.*

MM AQ-27

Prior to the occupancy of any on site development, the applicant or its designee shall provide evidence to the City of Calimesa that the applicant/phase developer has developed a Green Cleaning Product and Paint education program to be made available at rental and purchasing offices and/or on websites. The educational program shall include a flyer (hardcopy and/or digital) that includes, at a minimum, an explanation of what volatile organic compounds (VOCs) are, how VOCs affect persons, where to find low-VOC alternatives for cleaning supplies and paint, and additional resources for learning more.

MM AQ-27 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-28

Prior to the issuance of building permits, the applicant or its designee shall provide evidence to the City of Calimesa that for applicant (or its designee) and Homeowners' Association operated spaces that provisions are in place to ensure only zero- or low-volatile organic compound (VOC) cleaning supplies and super compliant-VOC paints (less than 10 grams per liter VOC) are used during Project operation.

MM AQ-28 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-29

Within the industrial and business park portions of the Project site, all on-site outdoor cargo-handling equipment (including yard trucks, hostlers, yard goats, pallet jacks, forklifts, and other on-site equipment) shall be electric or non-diesel fueled. All on-site indoor forklifts shall be powered by electricity.

MM AQ-29 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

MM AQ-30

Electric plug-ins shall be installed at the loading docks at cold storage facilities to allow for transport refrigeration unit standby electric plug-in.

MM AQ-30 is not quantifiable in CalEEMod and thus no credit was taken in the analysis for this mitigation measure.

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1 INTRODUCTION

This report presents the results of the GHGA prepared by Urban Crossroads, Inc., for the proposed Mesa Verde Specific Plan (Project). The purpose of this GHGA is to evaluate Project-related construction and operational emissions and determine the level of GHG impacts as a result of constructing and operating the Project.

1.1 SITE LOCATION

The Project area is comprised of 1,463.1 acres of undeveloped land located at the current terminuses of Sandalwood Drive and County Line Road in the northwestern portion of the City of Calimesa, as shown on Exhibit 1-A. Regional access to the Project site is provided via Interstate 10 (I-10) at the Calimesa Boulevard (leading to Sandalwood Drive) and County Line Road exits.

1.2 PROJECT DESCRIPTION

The conceptual Project site plan shown on Exhibit 1-B. The Project includes the development of the following uses within five phases of development:

a. Phase 1 (2030):

- 1,400.000 TSF General Light Industrial (evaluated as 700.000 TSF High-Cube Cold Storage and 700.000 TSF General Light Industrial)
- 16.500 TSF Fire and Rescue Station/Public Works Facility
- 709 DU Single-Family Detached Residential
- 185 DU Multifamily (Low-Rise) Residential
- 12.7 AC Parks

b. Phase 2 (2035):

- 700.000 TSF General Light Industrial
- 700.000 TSF High-Cube Fulfillment Center (Sort)
- 50.000 TSF Commercial
- 468 DU Single Family Detached Residential
- 81 DU Multifamily (Low-Rise) Residential
- 16.2 AC Parks

c. Phase 3 (2038):

- 700.000 TSF General Light Industrial
- 700.000 TSF High-Cube Fulfillment Center (Sort)
- 447 DU Single Family Detached Residential
- 81 DU Multifamily (Low-Rise) Residential
- 250.000 TSF Mixed Use (Commercial)
- 16.2 AC Parks

d. Phase 4 (2040):

- 240.000 Business Park/General/Medical Office

- 689 DU Single Family Detached Residential
- 194 DU Multifamily (Low-Rise) Residential
- 600 Students Elementary School
- 16.5 AC Parks

e. <u>Phase 5 (2045):</u>

- 547 DU Single Family Detached Residential
- 249 DU Multifamily (Low-Rise) Residential
- 600 Students Elementary School
- 12.2 AC Parks

As evaluated in the Mesa Verde Specific Plan Traffic Analysis (13), the Project is expected to generate a total of 60,090 external two-way trips per day at buildout, including 59,120 external two-way passenger vehicle trips per day and 970 two-way truck trips per day. However, it should be noted that this analysis conservatively analyzes a worst-case scenario that includes up to 700,000 square feet of High-Cube Cold Storage uses developed in lieu of 700,000 square feet of industrial park uses in Phase 1. Under this scenario, at buildout the Project would generate a total of 58,168 external two-way trips per day, including 56,846 external two-way passenger vehicle trips and 1,322 two-way truck trips per day. Although this scenario would result in fewer total daily trips, it represents the worst-case from an emissions standpoint due to its potential to generate a higher number of daily truck trips as well as the potential to include transport refrigeration units.

EXHIBIT 1-A: LOCATION MAP

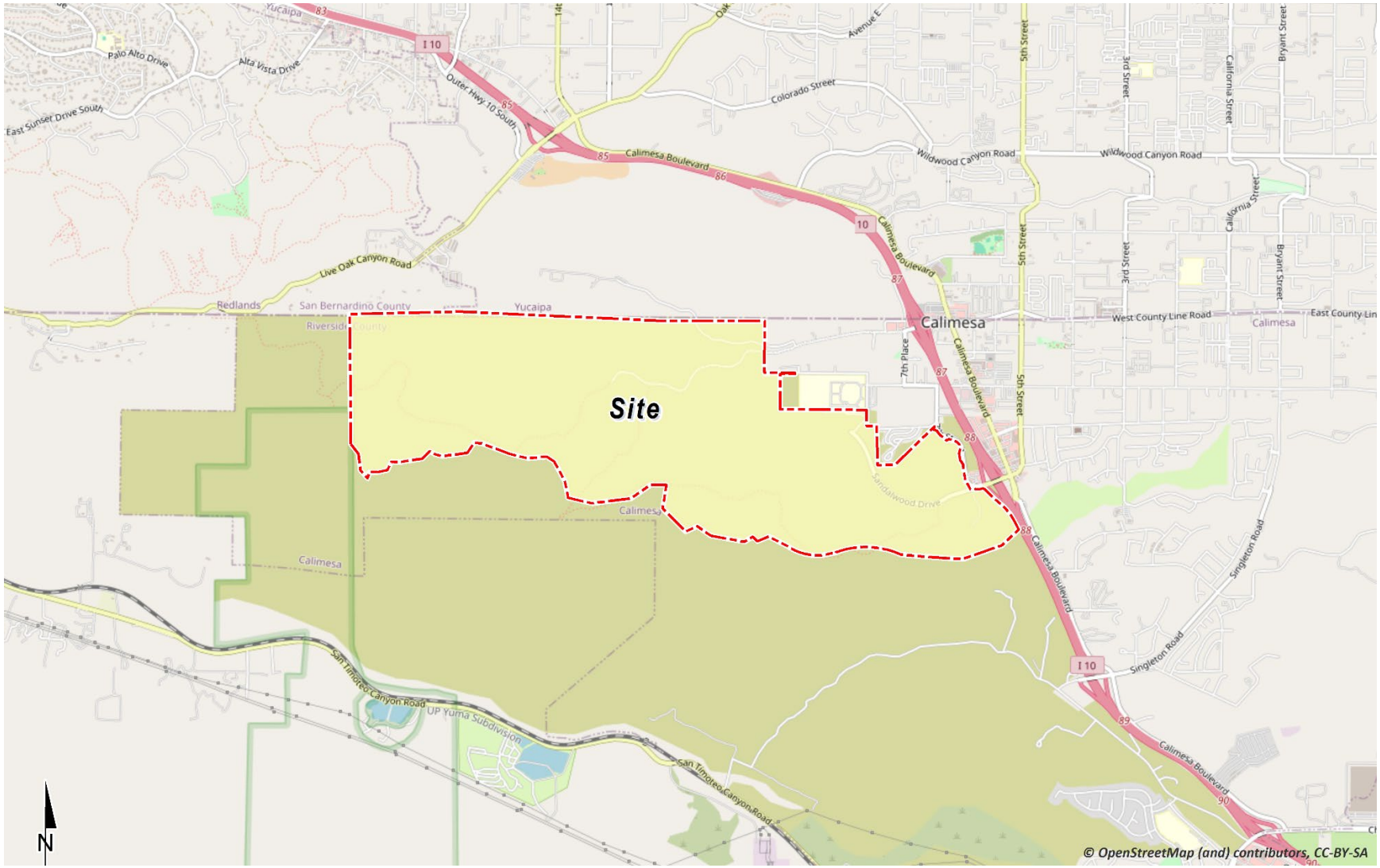
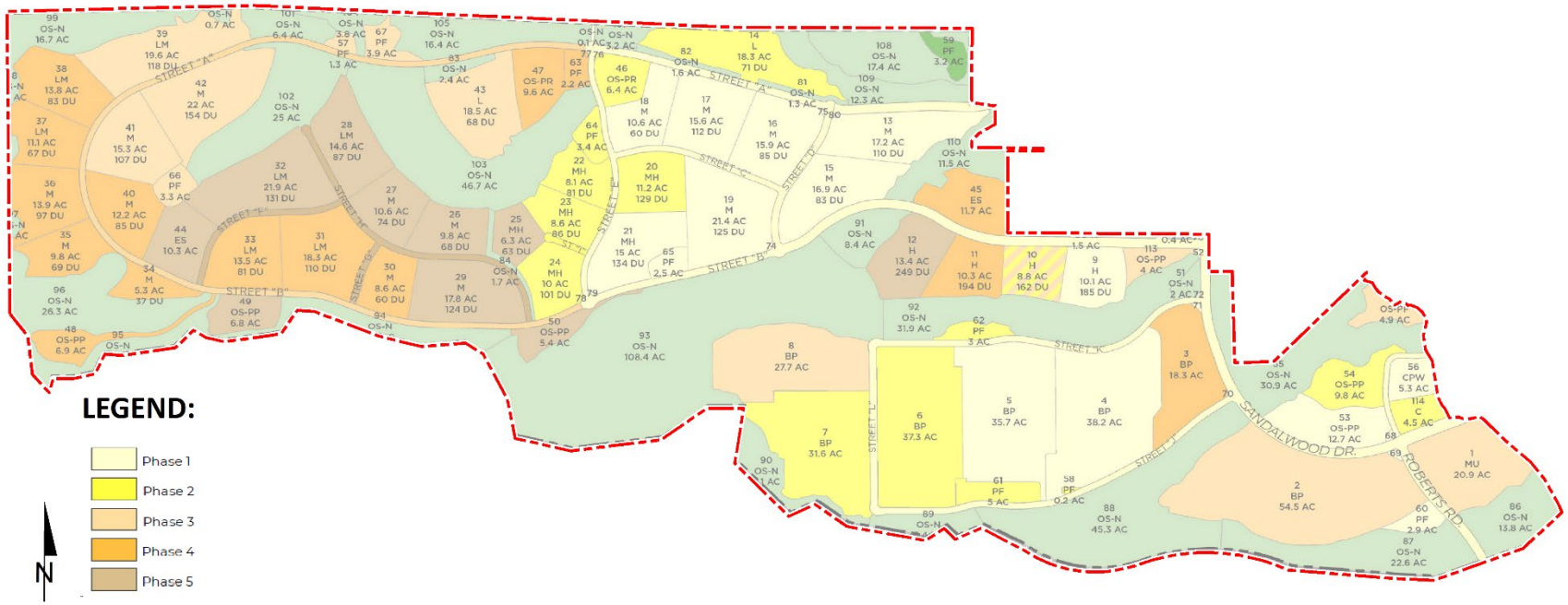


EXHIBIT 1-B: LAND USE PLAN



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2 CLIMATE CHANGE SETTING

2.1 INTRODUCTION TO GLOBAL CLIMATE CHANGE (GCC)

GCC is defined as the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

An individual project, like the Project evaluated in this GHGA, cannot generate enough GHG emissions to affect a discernible change in global climate. However, the Project may participate in the potential for GCC by its incremental contribution of GHGs combined with the cumulative increase of all other sources of GHGs, which when taken together constitute potential influences on GCC. Because these changes may have serious environmental consequences, Section 3 will evaluate the potential for the Project to have a significant effect upon the environment as a result of its potential contribution to the greenhouse effect.

2.2 GLOBAL CLIMATE CHANGE DEFINED

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation, and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2, N_2O, CH_4, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radiative heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

Gases that trap heat in the atmosphere are often referred to as GHGs. GHGs are released into the atmosphere by both natural and anthropogenic activity. Without the natural GHG effect, the earth's average temperature would be approximately 61 degrees Fahrenheit (°F) cooler than it is currently. The cumulative accumulation of these gases in the earth's atmosphere is considered to be the cause for the observed increase in the earth's temperature.

2.3 GHGS

2.3.1 GHGS AND HEALTH EFFECTS

GHGs trap heat in the atmosphere, creating a GHG effect that results in global warming and climate change. Many gases demonstrate these properties as discussed in Table 2-1. For the purposes of this analysis, emissions of CO_2, CH_4, and N_2O were evaluated because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were

not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

TABLE 2-1: GHGS

GHGs	Description	Sources	Health Effects
Water	Water is the most abundant, important, and variable GHG in the atmosphere. Water vapor is not considered a pollutant; in the atmosphere, it maintains a climate necessary for life. Changes in its concentration are primarily considered to be a result of climate feedbacks related to the warming of the atmosphere rather than a direct result of industrialization. Climate feedback is an indirect, or secondary, change, either positive or negative, that occurs within the climate system in response to a forcing mechanism. The feedback loop in which water is involved is critically important to projecting future climate change. As the temperature of the atmosphere rises, more water is evaporated from ground storage (rivers, oceans, reservoirs, soil). Because the air is warmer, the relative humidity can be higher (in essence, the air is able to 'hold' more water when it is warmer), leading to more water vapor in the atmosphere. As a GHG, the higher concentration of water vapor is then able to absorb more thermal indirect energy radiated from the earth, thus further warming the atmosphere. The warmer atmosphere can then hold more water vapor and so on. This is referred to as a "positive feedback loop." The extent to which this positive feedback loop would continue is unknown as there are also dynamics that hold the positive feedback loop	The main source of water vapor is evaporation from the oceans (approximately 85%). Other sources include evaporation from other water bodies, sublimation (change from solid to gas) from sea ice and snow, and transpiration from plant leaves.	There are no known direct health effects related to water vapor at this time. It should be noted however that when some pollutants react with water vapor, the reaction forms a transport mechanism for some of these pollutants to enter the human body through water vapor.

GHGs	Description	Sources	Health Effects
	in check. As an example, when water vapor increases in the atmosphere, more of it would eventually condense into clouds, which are more able to reflect incoming solar radiation (thus allowing less energy to reach the earth's surface and heat it up) (14).		
CO_2	CO_2 is an odorless and colorless GHG. Since the industrial revolution began in the mid-1700s, the sort of human activity that increases GHG emissions has increased dramatically in scale and distribution. Data from the past 50 years suggests a corollary increase in levels and concentrations. As an example, prior to the industrial revolution, CO_2 concentrations were fairly stable at 280 parts per million (ppm). Today, they are around 370 ppm, an increase of more than 30%. Left unchecked, the concentration of CO_2 in the atmosphere is projected to increase to a minimum of 540 ppm by 2100 as a direct result of anthropogenic sources (15).	CO_2 is emitted from natural and manmade sources. Natural sources include: the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungus; evaporation from oceans; and volcanic outgassing. Anthropogenic sources include: the burning of coal, oil, natural gas, and wood. CO_2 is naturally removed from the air by photosynthesis, dissolution into ocean water, transfer to soils and ice caps, and chemical weathering of carbonate rocks (16).	Outdoor levels of CO_2 are not high enough to result in negative health effects. According to the National Institute for Occupational Safety and Health (NIOSH) high concentrations of CO_2 can result in health effects such as: headaches, dizziness, restlessness, difficulty breathing, sweating, increased heart rate, increased cardiac output, increased blood pressure, coma, asphyxia, and/or convulsions. It should be noted that current concentrations of CO_2 in the earth's atmosphere are estimated to be approximately 370 ppm, the actual reference exposure level (level at which adverse health effects typically occur) is at exposure levels of 5,000 ppm averaged over 10 hours in a 40-hour workweek and short-term reference exposure levels of 30,000 ppm averaged over a 15-minute period (17).

GHGs	Description	Sources	Health Effects
CH_4	CH_4 is an extremely effective absorber of radiation, although its atmospheric concentration is less than CO_2 and its lifetime in the atmosphere is brief (10-12 years), compared to other GHGs.	CH_4 in the atmosphere is generated by many different sources, such as fossil fuel production, transport and use, from the decay of organic matter in wetlands, and as a byproduct of digestion by ruminant animals such as cows. Determining which specific sources are responsible for variations in annual increases of CH_4 is complex, but scientists estimate that fossil fuel production and use contributes roughly 30% of the total CH_4 emissions. These industrial sources of CH_4 are relatively simple to pinpoint and control using current technology (18).	CH_4 is extremely reactive with oxidizers, halogens, and other halogen-containing compounds. Exposure to elevated levels of CH_4 can cause asphyxiation, loss of consciousness, headache and dizziness, nausea and vomiting, weakness, loss of coordination, and an increased breathing rate.
N_2O	N_2O, also known as laughing gas, is a colorless GHG. Concentrations of N_2O also began to rise at the beginning of the industrial revolution. In 1998, the global concentration was 314 parts per billion (ppb).	N_2O is produced by microbial processes in soil and water, including those reactions which occur in fertilizer containing nitrogen. In addition to agricultural sources, some industrial processes (fossil fuel-fired power plants, nylon production, nitric acid production, and vehicle emissions) also contribute to its	N_2O can cause dizziness, euphoria, and sometimes slight hallucinations. In small doses, it is considered harmless. However, in some cases, heavy and extended use can cause Olney's Lesions (brain damage) (19).

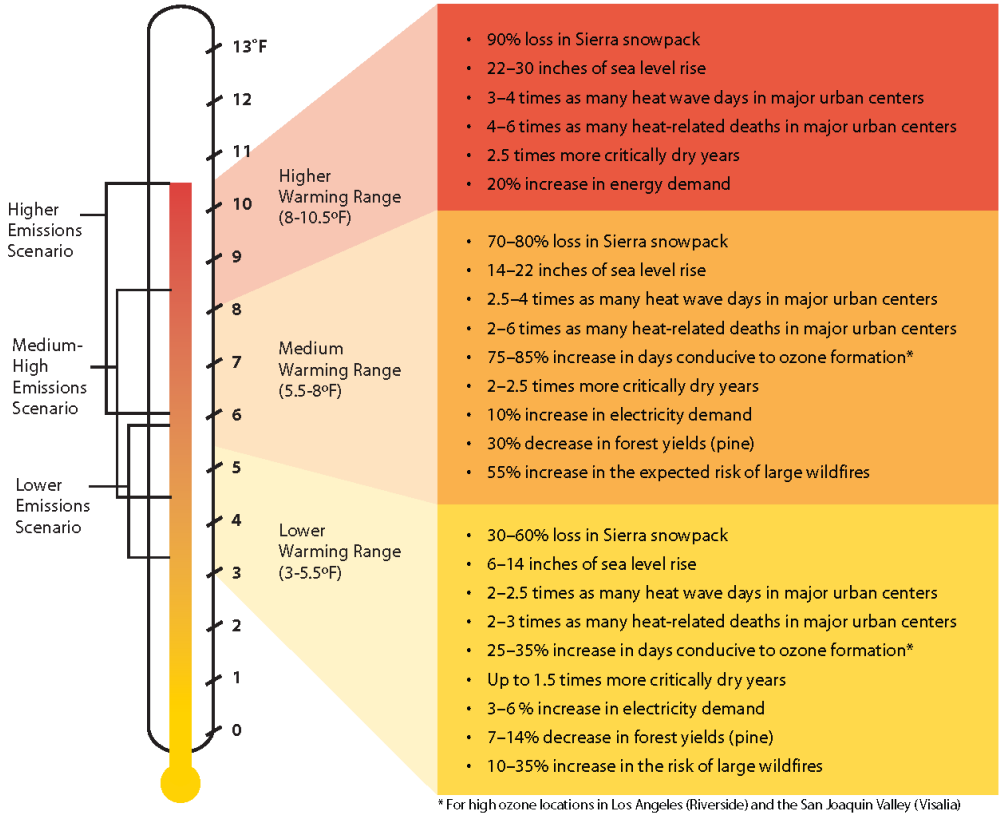
GHGs	Description	Sources	Health Effects
		atmospheric load. It is used as an aerosol spray propellant, i.e., in whipped cream bottles. It is also used in potato chip bags to keep chips fresh. It is used in rocket engines and in race cars. N_2O can be transported into the stratosphere, be deposited on the earth's surface, and be converted to other compounds by chemical reaction (19).	
Chlorofluorocarbons (CFCs)	CFCs are gases formed synthetically by replacing all hydrogen atoms in CH_4 or ethane (C_2H_6) with chlorine and/or fluorine atoms. CFCs are nontoxic, nonflammable, insoluble and chemically unreactive in the troposphere (the level of air at the earth's surface).	CFCs have no natural source. They are found in aerosol sprays, blowing agents for foams and packing materials, as solvents, and as refrigerants. (20).	In confined indoor locations, working with CFC-113 or other CFCs is thought to result in death by cardiac arrhythmia (heart frequency too high or too low) or asphyxiation.
HFCs	HFCs are synthetic, man-made chemicals that are used as a substitute for CFCs. Out of all the GHGs, they are one of three groups with the highest global warming potential (GWP). The HFCs with the largest measured atmospheric abundances are (in order), Fluoroform (HFC-23), 1,1,1,2-tetrafluoroethane (HFC-134a), and 1,1-difluoroethane (HFC-152a). Prior to 1990, the only significant emissions were of HFC-23. HCF-134a emissions are increasing due to its use as a refrigerant.	HFCs are manmade for applications such as automobile air conditioners and refrigerants.	No health effects are known to result from exposure to HFCs.

GHGs	Description	Sources	Health Effects
PFCs	PFCs have stable molecular structures and do not break down through chemical processes in the lower atmosphere. High-energy ultraviolet rays, which occur about 60 kilometers above earth's surface, are able to destroy the compounds. Because of this, PFCs have exceptionally long lifetimes, between 10,000 and 50,000 years. Two common PFCs are tetrafluoromethane (CF_4) and hexafluoroethane (C_2F_6). The EPA estimates that concentrations of CF_4 in the atmosphere are over 70 parts per trillion (ppt).	The two main sources of PFCs are primary aluminum production and semiconductor manufacture.	No health effects are known to result from exposure to PFCs.
SF_6	SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. It also has the highest GWP of any gas evaluated (23,900) (21). The EPA indicates that concentrations in the 1990s were about 4 ppt.	SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semiconductor manufacturing, and as a tracer gas for leak detection.	In high concentrations in confined areas, the gas presents the hazard of suffocation because it displaces the oxygen needed for breathing.
Nitrogen Trifluoride (NF_3)	NF_3 is a colorless gas with a distinctly moldy odor. The World Resources Institute (WRI) indicates that NF_3 has a 100-year GWP of 17,200 (22).	NF_3 is used in industrial processes and is produced in the manufacturing of semiconductors, Liquid Crystal Display (LCD) panels, types of solar panels, and chemical lasers.	Long-term or repeated exposure may affect the liver and kidneys and may cause fluorosis (23).

The potential health effects related directly to the emissions of CO_2, CH_4, and N_2O as they relate to development projects, such as the Project are still being debated in the scientific community. Their cumulative effects to GCC have the potential to cause adverse effects to human health. Increases in Earth's ambient temperatures would result in more intense heat waves, causing more heat-related deaths. Scientists also purport those higher ambient temperatures would increase disease survival rates and result in more widespread disease. Climate change would

likely cause shifts in weather patterns, potentially resulting in devastating droughts and food shortages in some areas (24). Exhibit 2-A presents the potential impacts of global warming (25).

EXHIBIT 2-A: SUMMARY OF PROJECTED GLOBAL WARMING IMPACT, 2070-2099 (AS COMPARED WITH 1961-1990)



Source: Barbara H. Allen-Diaz. "Climate change affects us all." *University of California, Agriculture and Natural Resources*, 2009.

2.4 GLOBAL WARMING POTENTIAL

GHGs have varying GWP values. GWP of a GHG indicates the amount of warming a gas cause over a given period of time and represents the potential of a gas to trap heat in the atmosphere. CO_2 is utilized as the reference gas for GWP, and thus has a GWP of 1. CO_2 equivalent (CO_2e) is a term used for describing the different GHGs in a common unit. CO_2e signifies the amount of CO_2 which would have the equivalent GWP.

The Intergovernmental Panel on Climate Change (IPCC) is the international body for assessing the science related to climate change. IPCC Assessment Reports cover the full scientific, technical and socio-economic assessment of climate change. The atmospheric lifetime and GWP of selected GHGs are summarized at Table 2-2. As shown in the table below, GWP for the 2nd Assessment range from 1 for CO_2 to 23,900 for SF_6 and GWP for the 6th Assessment Report range from 1 for CO_2 to 25,200 for SF_6 (26).

TABLE 2-2: GWP AND ATMOSPHERIC LIFETIME OF SELECT GHGS

Gas	Atmospheric Lifetime (years)	GWP (100-year time horizon)	
		2nd Assessment Report	6th Assessment Report
CO_2	Multiple	1	1
CH_4	11.8	21	28
N_2O	109	310	273
HFC-23	228	11,700	14,600
HFC-134a	14	1,300	1,526
HFC-152a	1.6	140	164
SF_6	3,200	23,900	25,200

Source: IPCC Second Assessment Report, 1995 and IPCC Sixth Assessment Report, 2022

2.5 GHG EMISSIONS INVENTORIES

2.5.1 GLOBAL

Worldwide anthropogenic GHG emissions are tracked by the IPCC for industrialized nations (referred to as Annex I) and developing nations (referred to as Non-Annex I). Human GHG emissions data for Annex I nations are available through 2020. Based on the latest available data, the sum of these emissions totaled approximately 28,026,643 gigagram (Gg) CO_2e[1] (27) (28) as summarized in Table 2-3.

2.5.2 UNITED STATES

As noted in Table 2-3, the United States, as a single country, was the number two producer of GHG emissions in 2020.

TABLE 2-3: TOP GHG PRODUCING COUNTRIES AND THE EUROPEAN UNION [2]

Emitting Countries	GHG Emissions (Gg CO_2e)
China	12,300,200
United States	5,981,354
European Union (27-member countries)	3,706,110
India	2,839,420
Russian Federation	2,051,437

[1] The global emissions are the sum of Annex I and non-Annex I countries, without counting Land-Use, Land-Use Change and Forestry (LULUCF). For countries without 2020 data, the United Nations' Framework Convention on Climate Change (UNFCCC) data for the most recent year were used U.N. Framework Convention on Climate Change, "Annex I Parties – GHG total without LULUCF," The most recent GHG emissions for China and India are from 2014 and 2016, respectively.

[2] Used http://unfccc.int data for Annex I countries. Consulted the CAIT Climate Data Explorer in https://www.climatewatchdata.org site to reference Non-Annex I countries of China and India.

Emitting Countries	GHG Emissions (Gg CO_2e)
Japan	1,148,122
Total	**28,026,643**

2.5.3 STATE OF CALIFORNIA

California has significantly slowed the rate of growth of GHG emissions due to the implementation of energy efficiency programs as well as adoption of strict emission controls but is still a substantial contributor to the United States (U.S.) emissions inventory total (29). The California Air Resource Board (CARB) compiles GHG inventories for the State of California. Based upon the 2022 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2020 GHG emissions period, California emitted an average 369.2 million metric tons of CO_2e per year ($MMTCO_2e/yr$) or 369,200 Gg CO_2e (6.17% of the total United States GHG emissions) (30).

2.6 EFFECTS OF CLIMATE CHANGE IN CALIFORNIA

2.6.1 PUBLIC HEALTH

Higher temperatures may increase the frequency, duration, and intensity of conditions conducive to air pollution formation. For example, days with weather conducive to ozone formation could increase from 25 to 35% under the lower warming range to 75 to 85% under the medium warming range. In addition, if global background ozone levels increase as predicted in some scenarios, it may become impossible to meet local air quality standards. Air quality could be further compromised by increases in wildfires, which emit fine particulate matter that can travel long distances, depending on wind conditions. Based on *Our Changing Climate Assessing the Risks to California by the California Climate Change Center*, large wildfires could become up to 55% more frequent if GHG emissions are not significantly reduced (31).

In addition, under the higher warming range scenario, there could be up to 100 more days per year with temperatures above 90°F in Los Angeles and 95°F in Sacramento by 2100. This is a significant increase over historical patterns and approximately twice the increase projected if temperatures remain within or below the lower warming range. Rising temperatures could increase the risk of death from dehydration, heat stroke/exhaustion, heart attack, stroke, and respiratory distress caused by extreme heat.

2.6.2 WATER RESOURCES

A vast network of man-made reservoirs and aqueducts captures and transports water throughout the state from northern California rivers and the Colorado River. The current distribution system relies on Sierra Nevada snowpack to supply water during the dry spring and summer months. Rising temperatures, potentially compounded by decreases in precipitation, could severely reduce spring snowpack, increasing the risk of summer water shortages.

If temperatures continue to increase, more precipitation could fall as rain instead of snow, and the snow that does fall could melt earlier, reducing the Sierra Nevada spring snowpack by as much as 70 to 90%. Under the lower warming range scenario, snowpack losses could be only half as large as those possible if temperatures were to rise to the higher warming range. How much

snowpack could be lost depends in part on future precipitation patterns, the projections for which remain uncertain. However, even under the wetter climate projections, the loss of snowpack could pose challenges to water managers and hamper hydropower generation. It could also adversely affect winter tourism. Under the lower warming range, the ski season at lower elevations could be reduced by as much as a month. If temperatures reach the higher warming range and precipitation declines, there might be many years with insufficient snow for skiing and snowboarding.

The State's water supplies are also at risk from rising sea levels. An influx of saltwater could degrade California's estuaries, wetlands, and groundwater aquifers. Saltwater intrusion caused by rising sea levels is a major threat to the quality and reliability of water within the southern edge of the Sacramento/San Joaquin River Delta – a major fresh water supply.

2.6.3 AGRICULTURE

Increased temperatures could cause widespread changes to the agriculture industry reducing the quantity and quality of agricultural products statewide. First, California farmers could possibly lose as much as 25% of the water supply needed. Although higher CO_2 levels can stimulate plant production and increase plant water-use efficiency, California's farmers could face greater water demand for crops and a less reliable water supply as temperatures rise. Crop growth and development could change, as could the intensity and frequency of pest and disease outbreaks. Rising temperatures could aggravate ozone pollution, which makes plants more susceptible to disease and pests and interferes with plant growth.

Plant growth tends to be slow at low temperatures, increasing with rising temperatures up to a threshold. However, faster growth can result in less-than-optimal development for many crops, so rising temperatures could worsen the quantity and quality of yield for a number of California's agricultural products. Products likely to be most affected include wine grapes, fruits, and nuts.

In addition, continued GCC could shift the ranges of existing invasive plants and weeds and alter competition patterns with native plants. Range expansion could occur in many species while range contractions may be less likely in rapidly evolving species with significant populations already established. Should range contractions occur, new or different weed species could fill the emerging gaps. Continued GCC could alter the abundance and types of many pests, lengthen pests' breeding season, and increase pathogen growth rates.

2.6.4 FORESTS AND LANDSCAPES

GCC has the potential to intensify the current threat to forests and landscapes by increasing the risk of wildfire and altering the distribution and character of natural vegetation. If temperatures rise into the medium warming range, the risk of large wildfires in California could increase by as much as 55%, which is almost twice the increase expected if temperatures stay in the lower warming range. However, since wildfire risk is determined by a combination of factors, including precipitation, winds, temperature, and landscape and vegetation conditions, future risks would not be uniform throughout the state. In contrast, wildfires in northern California could increase by up to 90% due to decreased precipitation.

Moreover, continued GCC has the potential to alter natural ecosystems and biological diversity within the state. For example, alpine and subalpine ecosystems could decline by as much as 60 to 80% by the end of the century as a result of increasing temperatures. The productivity of the state's forests has the potential to decrease as a result of GCC.

2.6.5 Rising Sea Levels

Rising sea levels, more intense coastal storms, and warmer water temperatures could increasingly threaten the state's coastal regions. Under the higher warming range scenario, sea level is anticipated to rise 22 to 35 inches by 2100. Elevations of this magnitude would inundate low-lying coastal areas with saltwater, accelerate coastal erosion, threaten vital levees and inland water systems, and disrupt wetlands and natural habitats. Under the lower warming range scenario, sea level could rise 12-14 inches.

2.7 Regulatory Setting

2.7.1 International

Climate change is a global issue involving GHG emissions from all around the world; therefore, countries such as the ones discussed below have made an effort to reduce GHGs.

IPCC

In 1988, the United Nations (U.N.) and the World Meteorological Organization established the IPCC to assess the scientific, technical, and socioeconomic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts, and options for adaptation and mitigation.

United Nation's Framework Convention on Climate Change (UNFCCC)

On March 21, 1994, the U.S. joined a number of countries around the world in signing the Convention. Under the UNFCCC, governments gather and share information on GHG emissions, national policies, and best practices; launch national strategies for addressing GHG emissions and adapting to expected impacts, including the provision of financial and technological support to developing countries; and cooperate in preparing for adaptation to the impacts of climate change.

International Climate Change Treaties

The Kyoto Protocol is an international agreement linked to the UNFCCC. The major feature of the Kyoto Protocol is that it sets binding targets for 37 industrialized countries and the European community for reducing GHG emissions at an average of 5% against 1990 levels over the five-year period 2008–2012. The Convention (as discussed above) encouraged industrialized countries to stabilize emissions; however, the Protocol commits them to do so. Developed countries have contributed more emissions over the last 150 years; therefore, the Protocol places a heavier burden on developed nations under the principle of "common but differentiated responsibilities."

In 2001, President George W. Bush indicated that he would not submit the treaty to the U.S. Senate for ratification, which effectively ended American involvement in the Kyoto Protocol. In December 2009, international leaders met in Copenhagen to address the future of international climate change commitments post-Kyoto. No binding agreement was reached in Copenhagen; however, the UN Climate Change Committee identified the long-term goal of limiting the maximum global average temperature increase to no more than 2 degrees Celsius (°C) above pre-industrial levels, subject to a review in 2015. The Committee held additional meetings in Durban, South Africa in November 2011; Doha, Qatar in November 2012; and Warsaw, Poland in November 2013. The meetings gradually gained consensus among participants on individual climate change issues.

On September 23, 2014, more than 100 Heads of State and Government and leaders from the private sector and civil society met at the Climate Summit in New York hosted by the U.N. At the Summit, heads of government, business and civil society announced actions in areas that would have the greatest impact on reducing emissions, including climate finance, energy, transport, industry, agriculture, cities, forests, and building resilience.

Parties to the UNFCCC reached a landmark agreement on December 12, 2015, in Paris, charting a fundamentally new course in the two-decade-old global climate effort. Culminating a four-year negotiating round, the new treaty ends the strict differentiation between developed and developing countries that characterized earlier efforts, replacing it with a common framework that commits all countries to put forward their best efforts and to strengthen them in the years ahead. This includes, for the first time, requirements that all parties report regularly on their emissions and implementation efforts and undergo international review.

The agreement and a companion decision by parties were the key outcomes of the conference, known as the 21st session of the UNFCCC Conference of the Parties (COP) 21. Together, the Paris Agreement and the accompanying COP decision:

- Reaffirm the goal of limiting global temperature increase well below 2°C, while urging efforts to limit the increase to 1.5 degrees;
- Establish binding commitments by all parties to make "nationally determined contributions" (NDCs), and to pursue domestic measures aimed at achieving them;
- Commit all countries to report regularly on their emissions and "progress made in implementing and achieving" their NDCs, and to undergo international review;
- Commit all countries to submit new NDCs every five years, with the clear expectation that they would "represent a progression" beyond previous ones;
- Reaffirm the binding obligations of developed countries under the UNFCCC to support the efforts of developing countries, while for the first time encouraging voluntary contributions by developing countries too;
- Extend the current goal of mobilizing $100 billion a year in support by 2020 through 2025, with a new, higher goal to be set for the period after 2025;
- Extend a mechanism to address "loss and damage" resulting from climate change, which explicitly would not "involve or provide a basis for any liability or compensation;"
- Require parties engaging in international emissions trading to avoid "double counting;" and

- Call for a new mechanism, similar to the Clean Development Mechanism under the Kyoto Protocol, enabling emission reductions in one country to be counted toward another country's NDC (C2ES 2015a) (32).

Following President Biden's day one executive order, the United States officially rejoined the landmark Paris Agreement on February 19, 2021, positioning the country to once again be part of the global climate solution. Meanwhile, city, state, business, and civic leaders across the country and around the world have been ramping up efforts to drive the clean energy advances needed to meet the goals of the agreement and put the brakes on dangerous climate change.

2.7.2 NATIONAL

Prior to the last decade, there have been no concrete federal regulations of GHGs or major planning for climate change adaptation. The following are actions regarding the federal government, GHGs, and fuel efficiency.

GHG ENDANGERMENT

In *Massachusetts v. Environmental Protection Agency* 549 U.S. 497 (2007), decided on April 2, 2007, the United States Supreme Court (Supreme Court) found that four GHGs, including CO_2, are air pollutants subject to regulation under Section 202(a)(1) of the Clean Air Act (CAA). The Supreme Court held that the EPA Administrator must determine whether emissions of GHGs from new motor vehicles cause or contribute to air pollution, which may reasonably be anticipated to endanger public health or welfare, or whether the science is too uncertain to make a reasoned decision. On December 7, 2009, the EPA Administrator signed two distinct findings regarding GHGs under Section 202(a) of the CAA:

- Endangerment Finding: The Administrator finds that the current and projected concentrations of the six key well-mixed GHGs— CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6—in the atmosphere threaten the public health and welfare of current and future generations.
- Cause or Contribute Finding: The Administrator finds that the combined emissions of these well-mixed GHGs from new motor vehicles and new motor vehicle engines contribute to the GHG pollution, which threatens public health and welfare.

These findings do not impose requirements on industry or other entities. However, this was a prerequisite for implementing GHG emissions standards for vehicles, as discussed in the section "Clean Vehicles" below. After a lengthy legal challenge, the Supreme Court declined to review an Appeals Court ruling that upheld the EPA Administrator's findings (33).

CLEAN VEHICLES

Congress first passed the Corporate Average Fuel Economy law in 1975 to increase the fuel economy of cars and light duty trucks. The law has become more stringent over time. On May 19, 2009, President Obama put in motion a new national policy to increase fuel economy for all new cars and trucks sold in the U.S. On April 1, 2010, the EPA, and the Department of Transportation's National Highway Traffic Safety Administration (NHTSA) announced a joint final rule establishing a national program that would reduce GHG emissions and improve fuel economy for new cars and trucks sold in the U.S.

The first phase of the national program applies to passenger cars, light-duty trucks, and medium-duty (MD) passenger vehicles, covering model years 2012 through 2016. They require these vehicles to meet an estimated combined average emissions level of 250 grams of CO_2 per mile, equivalent to 35.5 miles per gallon (mpg) if the automobile industry were to meet this CO_2 level solely through fuel economy improvements. Together, these standards would cut CO_2 emissions by an estimated 960 million metric tons and 1.8 billion barrels of oil over the lifetime of the vehicles sold under the program (model years 2012–2016). In August 2012, the EPA and the NHTSA issued final rules on a second-phase joint rulemaking establishing national standards for light-duty vehicles for model years 2017 through 2025. The new standards apply to passenger cars, light-duty trucks, and MD passenger vehicles. The final standards are projected to result in an average industry fleetwide level of 163 grams/mile of CO_2 in model year 2025, which is equivalent to 54.5 mpg if achieved exclusively through fuel economy improvements.

The EPA and the U.S. Department of Transportation issued final rules for the first national standards to reduce GHG emissions and improve fuel efficiency of heavy-duty trucks (HDT) and buses on September 15, 2011, effective November 14, 2011. For combination tractors, the agencies are proposing engine and vehicle standards that begin in the 2014 model year and achieve up to a 20% reduction in CO_2 emissions and fuel consumption by the 2018 model year. For HDT and vans, the agencies are proposing separate gasoline and diesel truck standards, which phase in starting in the 2014 model year and achieve up to a 10% reduction for gasoline vehicles and a 15% reduction for diesel vehicles by the 2018 model year (12 and 17% respectively if accounting for air conditioning leakage). Lastly, for vocational vehicles, the engine and vehicle standards would achieve up to a 10% reduction in fuel consumption and CO_2 emissions from the 2014 to 2018 model years.

On April 2, 2018, the EPA signed the Mid-term Evaluation Final Determination, which declared that the MY 2022-2025 GHG standards are not appropriate and should be revised (34). This Final Determination serves to initiate a notice to further consider appropriate standards for MY 2022-2025 light-duty vehicles. On August 2, 2018, the NHTSA in conjunction with the EPA, released a notice of proposed rulemaking, the *Safer Affordable Fuel-Efficient (SAFE) Vehicles Rule for Model Years 2021-2026 Passenger Cars and Light Trucks* (SAFE Vehicles Rule). The SAFE Vehicles Rule was proposed to amend existing Corporate Average Fuel Economy (CAFE) and tailpipe CO_2 standards for passenger cars and light trucks and to establish new standards covering model years 2021 through 2026. As of March 31, 2020, the NHTSA and EPA finalized the SAFE Vehicle Rule which increased stringency of CAFE and CO_2 emissions standards by 1.5% each year through model year 2026 (35). On December 21, 2021, after reviewing all the public comments submitted on NHTSA's April 2021 Notice of Proposed Rulemaking, NHTSA finalizes the CAFE Preemption rulemaking to withdraw its portions of the so-called SAFE I Rule. The final rule concludes that the SAFE I Rule overstepped the agency's legal authority and established overly broad prohibitions that did not account for a variety of important state and local interests. The final rule ensures that the SAFE I Rule will no longer form an improper barrier to states exploring creative solutions to address their local communities' environmental and public health challenges (36).

On March 31, 2022, NHTSA finalized CAFE standards for MY 2024-2026. The standards for passenger cars and light trucks for MYs 2024-2025 were increased at a rate of 8% per year and

then increased at a rate of 10% per year for MY 2026 vehicles. NHTSA currently projects that the revised standards would require an industry fleet-wide average of roughly 49 mpg in MY 2026 and would reduce average fuel outlays over the lifetimes of affected vehicles that provide consumers hundreds of dollars in net savings. These standards are directly responsive to the agency's statutory mandate to improve energy conservation and reduce the nation's energy dependence on foreign sources (37).

MANDATORY REPORTING OF GHGS

The Consolidated Appropriations Act of 2008, passed in December 2007, requires the establishment of mandatory GHG reporting requirements. On September 22, 2009, the EPA issued the Final Mandatory Reporting of GHGs Rule, which became effective January 1, 2010. The rule requires reporting of GHG emissions from large sources and suppliers in the U.S. and is intended to collect accurate and timely emissions data to inform future policy decisions. Under the rule, suppliers of fossil fuels or industrial GHGs, manufacturers of vehicles and engines, and facilities that emit 25,000 metric tons per year (MT/yr.) or more of GHG emissions are required to submit annual reports to the EPA.

CAP-AND-TRADE

Cap-and-trade refers to a policy tool where emissions are limited to a certain amount and can be traded or provides flexibility on how the emitter can comply. Successful examples in the U.S. include the Acid Rain Program and the N_2O Budget Trading Program and Clean Air Interstate Rule in the northeast. There is no federal GHG cap-and-trade program currently; however, some states have joined to create initiatives to provide a mechanism for cap-and-trade.

The Regional GHG Initiative is an effort to reduce GHGs among the states of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont. Each state caps CO_2 emissions from power plants, auctions CO_2 emission allowances, and invests the proceeds in strategic energy programs that further reduce emissions, save consumers money, create jobs, and build a clean energy economy. The Initiative began in 2008 and has retained all participating states as of 2020.

The Western Climate Initiative (WCI) partner jurisdictions have developed a comprehensive initiative to reduce regional GHG emissions to 15% below 2005 levels by 2020. The partners were originally California, British Columbia, Manitoba, Ontario, and Quebec. However, Manitoba and Ontario are not currently participating. California linked with Quebec's cap-and-trade system January 1, 2014, and joint offset auctions took place in 2015. While the WCI has yet to publish whether it has successfully reached the 2020 emissions goal initiative set in 2007, SB 32 requires that California, a major partner in the WCI, adopt the goal of reducing statewide GHG emissions to 40% below the 1990 level by 2030.

EXECUTIVE ORDER 13990

On January 20, 2021, Federal agencies were directed to immediately review, and take action to address, Federal regulations promulgated and other actions taken during the last 4 years that conflict with national objectives to improve public health and the environment; ensure access to

clean air and water; limit exposure to dangerous chemicals and pesticides; hold polluters accountable, including those who disproportionately harm communities of color and low-income communities; reduce GHG emissions; bolster resilience to the impacts of climate change; restore and expand our national treasures and monuments; and prioritize both environmental justice and employment.

2.7.3 CALIFORNIA

2.7.3.1 LEGISLATIVE ACTIONS TO REDUCE GHGS

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 AB 32 was specifically enacted to address GHG emissions. Other legislation such as Title 24 and Title 20 energy standards were originally adopted for other purposes such as energy and water conservation, but also provide GHG reductions. This section describes the major provisions of the legislation.

SB 1368

California SB 1368 adds Sections 8340 and 8341 to the Public Utilities Code (effective January 1, 2007) with the intent "to prevent long-term investments in power plants with GHG emissions in excess of those produced by a combined-cycle natural gas power plant" with the aim of "reducing emissions of GHGs from the state's electricity consumption, not just the state's electricity production." SB 1368 provides a mechanism for reducing the GHG emissions of electricity providers, both in-state and out-of-state, thereby assisting CARB in meeting its mandate under AB 32, the Global Warming Solutions Act of 2006.

AB 32

The California State Legislature enacted AB 32, which required that GHGs emitted in California be reduced to 1990 levels by the year 2020 (this goal has been met[3]). GHGs as defined under AB 32, include CO_2, CH_4, N_2O, HFCs, PFCs, and SF_6. Since AB 32 was enacted, a seventh chemical, NF_3, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

> *"Global warming poses a serious threat to the economic well-being, public health, natural resources, and the environment of California. The potential adverse impacts of global warming include the exacerbation of air quality problems, a reduction in the quality and supply of water to the state from the Sierra snowpack, a rise in sea levels resulting in the displacement of thousands of coastal businesses and residences, damage to marine ecosystems and the natural environment, and*

[3] Based upon the 2019 GHG inventory data (i.e., the latest year for which data are available) for the 2000-2017 GHG emissions period, California emitted an average 424.1 $MMTCO_2e$ (56). This is less than the 2020 emissions target of 431 $MMTCO_2e$.

an increase in the incidences of infectious diseases, asthma, and other human health-related problems."

SB 375

On September 30, 2008, SB 375 was signed by Governor Schwarzenegger. According to SB 375, the transportation sector is the largest contributor of GHG emissions, which emits over 40% of the total GHG emissions in California. SB 375 states, "Without improved land use and transportation policy, California would not be able to achieve the goals of AB 32." SB 375 does the following: it (1) requires metropolitan planning organizations (MPOs) to include sustainable community strategies in their regional transportation plans for reducing GHG emissions; (2) aligns planning for transportation and housing; and (3) creates specified incentives for the implementation of the strategies.

SB 375 requires MPOs to prepare a Sustainable Communities Strategy (SCS) within the Regional Transportation Plan (RTP) that guides growth while taking into account the transportation, housing, environmental, and economic needs of the region. SB 375 uses CEQA streamlining as an incentive to encourage residential projects, which help achieve AB 32 goals to reduce GHG emissions. Although SB 375 does not prevent CARB from adopting additional regulations, such actions are not anticipated in the foreseeable future.

Concerning CEQA, SB 375, as codified in Public Resources Code Section 21159.28, states that CEQA findings for certain projects are not required to reference, describe, or discuss (1) growth inducing impacts, or (2) any project-specific or cumulative impacts from cars and light-duty truck trips generated by the project on global warming or the regional transportation network, if the project:

1. Is in an area with an approved sustainable communities strategy or an alternative planning strategy that CARB accepts as achieving the GHG emission reduction targets.
2. Is consistent with that strategy (in designation, density, building intensity, and applicable policies).
3. Incorporates the MMs required by an applicable prior environmental document.

AB 1493 - Pavley Fuel Efficiency Standards

The second phase of the implementation for the Pavley bill was incorporated into Amendments to the Low-Emission Vehicle Program (LEV III) or the Advanced Clean Cars (ACC) program. The ACC program combines the control of smog-causing pollutants and GHG emissions into a single coordinated package of requirements for MY 2017 through 2025. The regulation will reduce GHGs from new cars by 34% from 2016 levels by 2025. The new rules will clean up gasoline and diesel-powered cars, and deliver increasing numbers of zero-emission technologies, such as full battery electric cars, newly emerging plug-in hybrid EV and hydrogen fuel cell cars. The package will also ensure adequate fueling infrastructure is available for the increasing numbers of hydrogen fuel cell vehicles planned for deployment in California. On March 9, EPA reinstated California's authority under the Clean Air Act to implement its own GHG emission standards for cars and light trucks, which other states can also adopt and enforce. With this authority restored, EPA will continue partnering with states to advance the next generation of clean vehicle technologies.

CLEAN ENERGY AND POLLUTION REDUCTION ACT OF 2015 (SB 350)

In October 2015, the legislature approved, and Governor Jerry Brown signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the RPS, higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for EV charging stations. Provisions for a 50% reduction in the use of petroleum statewide were removed from the Bill because of opposition and concern that it would prevent the Bill's passage. Specifically, SB 350 requires the following to reduce statewide GHG emissions:

- Increase the amount of electricity procured from renewable energy sources from 33% to 50% by 2030, with interim targets of 40% by 2024, and 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target would be achieved through the California Public Utilities Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which would facilitate the growth of renewable energy markets in the western United States.

SB 32

On September 8, 2016, Governor Brown signed SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (11).

2017 CARB SCOPING PLAN

In November 2017, CARB released the *Final 2017 Scoping Plan Update* (*2017 Scoping Plan*), which identifies the State's post-2020 reduction strategy. The *2017 Scoping Plan* reflects the 2030 target of a 40% reduction below 1990 levels, set by Executive Order B-30-15 and codified by SB 32. Key programs that the proposed Second Update builds upon include the Cap-and-Trade Regulation, the LCFS, and much cleaner cars, trucks, and freight movement, utilizing cleaner, renewable energy, and strategies to reduce CH_4 emissions from agricultural and other wastes.

The *2017 Scoping Plan* establishes a new emissions limit of 260 $MMTCO_2e$ for the year 2030, which corresponds to a 40% decrease in 1990 levels by 2030 (38).

California's climate strategy would require contributions from all sectors of the economy, including the land base, and would include enhanced focus on zero and near-zero emission (ZE/NZE) vehicle technologies; continued investment in renewables, including solar roofs, wind, and other distributed generation; greater use of low carbon fuels; integrated land conservation and development strategies; coordinated efforts to reduce emissions of short-lived climate pollutants (CH_4, black carbon, and fluorinated gases); and an increased focus on integrated land

use planning to support livable, transit-connected communities and conservation of agricultural and other lands. Requirements for direct GHG reductions at refineries would further support air quality co-benefits in neighborhoods, including in disadvantaged communities historically located adjacent to these large stationary sources, as well as efforts with California's local air pollution control and air quality management districts (air districts) to tighten emission limits on a broad spectrum of industrial sources. Major elements of the *2017 Scoping Plan* framework include:

- Implementing and/or increasing the standards of the Mobile Source Strategy, which include increasing zero-emission vehicles (ZEV) buses and trucks.
- LCFS, with an increased stringency (18% by 2030).
- Implementing SB 350, which expands the RPS to 50% RPS and doubles energy efficiency savings by 2030.
- California Sustainable Freight Action Plan, which improves freight system efficiency, utilizes near-zero emissions technology, and deployment of ZEV trucks.
- Implementing the proposed Short-Lived Climate Pollutant Strategy (SLPS), which focuses on reducing CH_4 and HCF emissions by 40% and anthropogenic black carbon emissions by 50% by year 2030.
- Continued implementation of SB 375.
- Post-2020 Cap-and-Trade Program that includes declining caps.
- 20% reduction in GHG emissions from refineries by 2030.
- Development of a Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Note, however, that the *2017 Scoping Plan* acknowledges that:

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

In addition to the statewide strategies listed above, the *2017 Scoping Plan* also identifies local governments as essential partners in achieving the State's long-term GHG reduction goals and identifies local actions to reduce GHG emissions. As part of the recommended actions, CARB recommends that local governments achieve a community-wide goal to achieve emissions of no more than 6 metric tons of CO_2e ($MTCO_2e$) or less per capita by 2030 and 2 $MTCO_2e$ or less per capita by 2050. For CEQA projects, CARB states that lead agencies may develop evidence-based bright-line numeric thresholds—consistent with the *2017 Scoping Plan* and the State's long-term GHG goals—and projects with emissions over that amount may be required to incorporate on-site design features and MMs that avoid or minimize project emissions to the degree feasible; or a performance-based metric using a Climate Action Plan (CAP) or other plan to reduce GHG emissions is appropriate.

According to research conducted by the Lawrence Berkeley National Laboratory (LBNL) and supported by CARB, California, under its existing and proposed GHG reduction policies, could achieve the 2030 goals under SB 32. The research utilized a new, validated model known as the California LBNL GHG Analysis of Policies Spreadsheet (CALGAPS), which simulates GHG and criteria pollutant emissions in California from 2010 to 2050 in accordance to existing and future GHG-reducing policies. The CALGAPS model showed that by 2030, emissions could range from 211 to 428 $MTCO_2e$ per year ($MTCO_2e$/yr.), indicating that "even if all modeled policies are not implemented, reductions could be sufficient to reduce emissions 40% below the 1990 level [of SB 32]." CALGAPS analyzed emissions through 2050 even though it did not generally account for policies that might be put in place after 2030. Although the research indicated that the emissions would not meet the State's 80% reduction goal by 2050, various combinations of policies could allow California's cumulative emissions to remain very low through 2050 (39).

2022 CARB SCOPING PLAN

On December 15, 2022, CARB adopted the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) (40). The 2022 Scoping Plan builds on the 2017 Scoping Plan as well as the requirements set forth by AB 1279, which directs the state to become carbon neutral no later than 2045. To achieve this statutory objective, the 2022 Scoping Plan lays out how California can reduce GHG emissions by 85% below 1990 levels and achieve carbon neutrality by 2045. The Scoping Plan scenario to do this is to "deploy a broad portfolio of existing and emerging fossil fuel alternatives and clean technologies, and align with statutes, Executive Orders, Board direction, and direction from the governor." 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 (CAP) consistent with *CEQA Guidelines* section 15183.5.

The key elements of the 2022 CARB Scoping Plan focus on transportation - the regulations that will impact this sector are adopted and enforced by CARB on vehicle manufacturers and outside the jurisdiction and control of local governments. As stated in the Plan's executive summary:

> "The major element of this unprecedented transformation is the aggressive reduction of fossil fuels wherever they are currently used in California, building on and accelerating carbon reduction programs that have been in place for a decade and a half. That means rapidly moving to zero-emission transportation; electrifying the cars, buses, trains, and trucks that now constitute California's single largest source of planet-warming pollution."
>
> "[A]pproval of this plan catalyzes a number of efforts, including the development of new regulations as well as amendments to strengthen regulations and programs already in place, not just at CARB but across state agencies."

Under the 2022 Scoping Plan, the State will lead efforts to meet the 2045 carbon neutrality goal through implementation of the following objectives:

- Reimagine roadway projects that increase VMT in a way that meets community needs and reduces the need to drive.
- Double local transit capacity and service frequencies by 2030.

- Complete the High-Speed Rail (HSR) System and other elements of the intercity rail network by 2040.
- Expand and complete planned networks of high-quality active transportation infrastructure.
- Increase availability and affordability of bikes, e-bikes, scooters, and other alternatives to light-duty vehicles, prioritizing needs of underserved communities.
- Shift revenue generation for transportation projects away from the gas tax into more durable sources by 2030.
- Authorize and implement roadway pricing strategies and reallocate revenues to equitably improve transit, bicycling, and other sustainable transportation choices.
- Prioritize addressing key transit bottlenecks and other infrastructure investments to improve transit operational efficiency over investments that increase VMT.
- Develop and implement a statewide transportation demand management (TDM) framework with VMT mitigation requirements for large employers and large developments.
- Prevent uncontrolled growth of autonomous vehicle (AV) VMT, particularly zero-passenger miles.
- Channel new mobility services towards pooled use models, transit complementarity, and lower VMT outcomes.
- Establish an integrated statewide system for trip planning, booking, payment, and user accounts that enables efficient and equitable multimodal systems.
- Provide financial support for low-income and disadvantaged Californians' use of transit and new mobility services.
- Expand universal design features for new mobility services.
- Accelerate infill development in existing transportation-efficient places and deploy strategic resources to create more transportation-efficient locations.
- Encourage alignment in land use, housing, transportation, and conservation planning in adopted regional plans (RTP/SCS and RHNA) and local plans (e.g., general plans, zoning, and local transportation plans).
- Accelerate production of affordable housing in forms and locations that reduce VMT and affirmatively further fair housing policy objectives.
- Reduce or eliminate parking requirements (and/or enact parking maximums, as appropriate) and promote redevelopment of excess parking, especially in infill locations.
- Preserve and protect existing affordable housing stock and protect existing residents and businesses from displacement and climate risk.

Included in the 2022 Scoping Plan is a set of Local Actions (Appendix D to the 2022 Scoping Plan) 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, in fact CARB states in Appendix D (page 4): "…focuses primarily on climate action plans

(CAPs) and local authority over new residential development. It does not address other land use types (e.g., industrial) or air permitting."

Additionally on Page 21 in Appendix D, CARB states: "The recommendations outlined in this section apply only to residential and mixed-use development project types. California currently faces both a housing crisis and a climate crisis, which necessitates prioritizing recommendations for residential projects to address the housing crisis in a manner that simultaneously supports the State's GHG and regional air quality goals. CARB plans to continue to explore new approaches for other land use types in the future." As such, it would be inappropriate to apply the requirements contained in Appendix D of the 2022 Scoping Plan to any land use types other than residential or mixed-use residential development.

CAP-AND-TRADE PROGRAM

The *2017 Scoping Plan* identifies a Cap-and-Trade Program as one of the key strategies for California to reduce GHG emissions. According to CARB, a cap-and-trade program would help put California on the path to meet its goal of achieving a 40% reduction in GHG emissions from 1990 levels by 2030. Under cap-and-trade, an overall limit on GHG emissions from capped sectors is established, and facilities subject to the cap would be able to trade permits to emit GHGs within the overall limit.

CARB adopted a California Cap-and-Trade Program pursuant to its authority under AB 32. The Cap-and-Trade Program is designed to reduce GHG emissions from regulated entities by more than 16% between 2013 and 2020, and by an additional 40% by 2030. The statewide cap for GHG emissions from the capped sectors (e.g., electricity generation, petroleum refining, and cement production) commenced in 2013 and would decline over time, achieving GHG emission reductions throughout the program's duration.

Covered entities that emit more than 25,000 $MTCO_2e$/yr must comply with the Cap-and-Trade Program. Triggering of the 25,000 $MTCO_2e$/yr "inclusion threshold" is measured against a subset of emissions reported and verified under the California Regulation for the Mandatory Reporting of GHG Emissions (Mandatory Reporting Rule or "MRR").

Under the Cap-and-Trade Program, CARB issues allowances equal to the total amount of allowable emissions over a given compliance period and distributes these to regulated entities. Covered entities are allocated free allowances in whole or part (if eligible), and may buy allowances at auction, purchase allowances from others, or purchase offset credits. Each covered entity with a compliance obligation is required to surrender "compliance instruments" for each $MTCO_2e$ of GHG they emit. There also are requirements to surrender compliance instruments covering 30% of the prior year's compliance obligation by November of each year (41).

The Cap-and-Trade Program provides a firm cap, which provides the highest certainty of achieving the 2030 target. An inherent feature of the Cap-and-Trade program is that it does not guarantee GHG emissions reductions in any discrete location or by any particular source. Rather, GHG emissions reductions are only guaranteed on an accumulative basis. As summarized by CARB in the *First Update to the Climate Change Scoping Plan*:

> *"The Cap-and-Trade Regulation gives companies the flexibility to trade allowances with others or take steps to cost-effectively reduce emissions at their own facilities. Companies that emit more have to turn in more allowances or other compliance instruments. Companies that can cut their GHG emissions have to turn in fewer allowances. But as the cap declines, aggregate emissions must be reduced. In other words, a covered entity theoretically could increase its GHG emissions every year and still comply with the Cap-and-Trade Program if there is a reduction in GHG emissions from other covered entities. Such a focus on aggregate GHG emissions is considered appropriate because climate change is a global phenomenon, and the effects of GHG emissions are considered cumulative."* (42)

The Cap-and-Trade Program covers approximately 80% of California's GHG emissions (38). The Cap-and-Trade Program covers the GHG emissions associated with electricity consumed in California, whether 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 from combustion of other fossil fuels not directly covered at large sources in the Program's first compliance period. The Cap-and-Trade Program covers the GHG emissions associated with the combustion of transportation fuels in California, whether refined in-state or imported.

2.7.3.2 EXECUTIVE ORDERS RELATED TO GHG EMISSIONS

California's Executive Branch has taken several actions to reduce GHGs through the use of Executive Orders. Although not regulatory, they set the tone for the state and guide the actions of state agencies.

EXECUTIVE ORDER S-3-05

California Governor Arnold Schwarzenegger announced on June 1, 2005, through Executive Order S-3-05, the following reduction targets for GHG emissions:

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

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that would 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 (LCFS)

Governor Schwarzenegger signed Executive Order S-01-07 on January 18, 2007. The order mandates that a statewide goal shall be established to reduce the carbon intensity of California's transportation fuels by at least 10% by 2020. CARB adopted the LCFS on April 23, 2009.

After a series of legal changes, in order to address the Court ruling, CARB was required to bring a new LCFS regulation to the Board for consideration in February 2015. The proposed LCFS regulation was required to contain revisions to the 2010 LCFS as well as new provisions designed to foster investments in the production of the low-carbon intensity fuels, offer additional flexibility to regulated parties, update critical technical information, simplify and streamline program operations, and enhance enforcement. On November 16, 2015, the Office of Administrative Law (OAL) approved the Final Rulemaking Package. The new LCFS regulation became effective on January 1, 2016.

In 2018, CARB approved amendments to the regulation, which included strengthening the carbon intensity benchmarks through 2030 in compliance with the SB 32 GHG emissions reduction target for 2030. The amendments included crediting opportunities to promote zero emission vehicle adoption, alternative jet fuel, carbon capture and sequestration, and advanced technologies to achieve deep decarbonization in the transportation sector (43).

EXECUTIVE ORDER S-13-08

Executive Order S-13-08 states that "climate change in California during the next century is expected to shift precipitation patterns, accelerate sea level rise and increase temperatures, thereby posing a serious threat to California's economy, to the health and welfare of its population and to its natural resources." Pursuant to the requirements in the Order, the *2009 California Climate Adaptation Strategy* (*CNRA 2009*) was adopted, which is the "…first statewide, multi-sector, region-specific, and information-based climate change adaptation strategy in the United States." 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 B-30-15

On April 29, 2015, Governor Brown issued an executive order to establish a California GHG reduction target of 40% below 1990 levels by 2030. The Governor's executive order aligned California's GHG reduction targets with those of leading international governments ahead of the U.N. Climate Change Conference in Paris late 2015. The Order sets a new interim statewide GHG emission reduction target to reduce GHG emissions to 40% below 1990 levels by 2030 in order to ensure California meets its target of reducing GHG emissions to 80% below 1990 levels by 2050 and directs CARB to update the *2017 Scoping Plan* to express the 2030 target in terms of $MMTCO_2e$. The 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. As with Executive Order S-3-05, this Order is not legally enforceable to local governments and the private sector. Legislation that would update AB 32 to make post 2020 targets and requirements a mandate is in process in the State Legislature.

EXECUTIVE ORDER B-55-18 AND SB 100

SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales of electricity are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement

to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours (kWh) of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California EPA (CalEPA), the California Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

2.7.3.3 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 CCR Sections 1601 et seq. – Appliance Efficiency Regulations

The Appliance Efficiency Regulations regulate the sale of appliances in California. The Appliance Efficiency Regulations include standards for both federally regulated appliances and non-federally regulated appliances. 23 categories of appliances are included in the scope of these regulations. The standards within these regulations apply to appliances that are sold or offered for sale in California, except those sold wholesale in California for final retail sale outside the state and those designed and sold exclusively for use in recreational vehicles (RV) or other mobile equipment (CEC 2012).

Title 24 CCR Part 6 – California Energy Code

The California Energy Code 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.

Title 24 CCR Part 11 – California Green Building Standards Code

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code 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. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that became effective on January 1, 2023. The

CEC anticipates that the 2022 energy code will provide $1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (44). It should be noted that the 2025 California Green Building Code Standards are expected to be adopted in 2024, with an effective date of January 1, 2026. The Project would be required to comply with the applicable standards in place at the time plan check submittals are made. These require, among other items (45):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).
- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty EV supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are identified for the depositing, storage, and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
    - Water Closets. The effective flush volume of all water closets shall not exceed 1.28 gallons per flush (5.303.3.1)

- Urinals. The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
- Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
- Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).

- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is projected to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project.

RESIDENTIAL MANDATORY MEASURES

- Electric vehicle (EV) charging stations. New construction shall comply with Section 4.106.4.1, 4.106.4.2, 4.106.4.3, to facilitate future installation and use of EV chargers. Electric vehicle supply equipment (EVSE) shall be installed in accordance with the *California Electrical Code*, Article 625. (4.106.4).
  - New one- and two-family dwellings and town-houses with attached private garages. For each dwelling unit, install a listed raceway to accommodate a dedicated 208/240-volt branch circuit. The raceway shall not be less than trade size 1 (nominal 1-inch inside diameter). The raceway shall originate at the main service or subpanel and shall terminate into a listed cabinet, box or other enclosure in close proximity to the proposed location of an EV charger. Raceways are required to be continuous at enclosed, inaccessible or concealed areas and spaces. The service panel and/or subpanel shall provide capacity to install a 40-ampere 208/240-volt minimum dedicated branch circuit and space(s) reserved to permit installation of a branch circuit overcurrent protective device.
  - New hotels and motels. All newly constructed hotels and motels shall provide EV spaces capable of supporting future installation of EVSE. The construction documents shall

identify the location of the EV spaces. The number of required EV spaces shall be based on the total number of parking spaces provided for all types of parking facilities in accordance with Table 4.106.4.3.1.

- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with Sections 4.303.1.1, 4.303.1.2, 4.303.1.3, and 4.303.1.4.
- Outdoor potable water use in landscape areas. Residential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resource ' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.
- Operation and maintenance manual. At the time of final inspection, a manual, compact disc, web-based reference or other media acceptable to the enforcing agency which includes all of the following shall be placed in the building:
    - Directions to the owner or occupant that the manual shall remain with the building throughout the life cycle of the structure.
    - Operations and maintenance instructions for the following:
        - Equipment and appliances, including water-saving devices and systems, HVAC systems, photovoltaic systems, EV chargers, water-heating systems and other major appliances and equipment.
        - Roof and yard drainage, including gutter and downspouts.
        - Space conditioning systems, including condensers and air filters.
        - Landscape irrigation systems.
        - Water reuse systems.
    - Information from local utility, water and waste recovery providers on methods to future reduce resource consumption, including recycle programs and locations.
    - Public transportation and/or carpool options available in the area.
    - Educational material on the positive impacts of an interior relative humidity between 30-60% and what methods an occupants may use to maintain the relative humidity level in that range.
    - Information about water-conserving landscape and irrigation design and controllers which conserve water.
    - Instructions for maintaining gutters and downspouts and the importance of diverting water at least 5 feet away from the foundation.
    - Information about state solar energy and incentive programs available.
    - A copy of all special inspection verifications required by the enforcing agency of this code.
    - Information from CALFIRE on maintenance of defensible space around residential structures.
- Any installed gas fireplace shall be direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.

- Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the CARB Architectural Suggested Control Measure, as shown in Table 4.504.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 4.504.3 shall be determined by classifying the coating as a Flat, Nonflat, or Nonflat-high Gloss coating, based on its glass, as defined in subsections 4.21, 4.36, and 4.37 of the 2007 CARB, Suggested Control Measure, and the corresponding Flat, Nonflat, Nonflat-high Gloss VOC limit in Table 4.504.3 shall apply.

CARB REFRIGERANT MANAGEMENT PROGRAM

CARB adopted a regulation in 2009 to reduce refrigerant GHG emissions from stationary sources through refrigerant leak detection and monitoring, leak repair, system retirement and retrofitting, reporting and recordkeeping, and proper refrigerant cylinder use, sale, and disposal. The regulation is set forth in sections 95380 to 95398 of Title 17, CCR. The rules implementing the regulation establish a limit on statewide GHG emissions from stationary facilities with refrigeration systems with more than 50 pounds of a high GWP refrigerant. The refrigerant management program is designed to (1) reduce emissions of high-GWP GHG refrigerants from leaky stationary, non-residential refrigeration equipment; (2) reduce emissions from the installation and servicing of refrigeration and air-conditioning appliances using high-GWP refrigerants; and (3) verify GHG emission reductions.

SB 97 AND THE CEQA GUIDELINES UPDATE

Passed in August 2007, SB 97 added Section 21083.05 to the Public Resources Code. The code states "(a) On or before July 1, 2009, the Office of Planning and Research (OPR) shall prepare, develop, and transmit to the Resources Agency guidelines for the mitigation of GHG emissions or the effects of GHG emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption. (b) On or before January 1, 2010, the Resources Agency shall certify and adopt guidelines prepared and developed by the OPR pursuant to subdivision (a)."

In 2012, Public Resources Code Section 21083.05 was amended to state:

> *"The Office of Planning and Research and the Natural Resources Agency shall periodically update the guidelines for the mitigation of greenhouse gas emissions or the effects of greenhouse gas emissions as required by this division, including, but not limited to, effects associated with transportation or energy consumption, to incorporate new information or criteria established by the State Air Resources Board pursuant to Division 25.5 (commencing with Section 38500) of the Health and Safety Code."*

On December 28, 2018, the Natural Resources Agency announced the OAL approved the amendments to the *CEQA Guidelines* for implementing CEQA. The CEQA Amendments provide guidance to public agencies regarding the analysis and mitigation of the effects of GHG emissions in CEQA documents. The CEQA Amendments fit within the existing CEQA framework by amending existing *CEQA Guidelines* to reference climate change.

Section 15064.4 was added to the *CEQA Guidelines* and states that in determining the significance of a project's GHG emissions, the lead agency should focus its analysis on the reasonably foreseeable incremental contribution of the project's emissions to the effects of climate change. A project's incremental contribution may be cumulatively considerable even if it appears relatively insignificant compared to statewide, national, or global emissions. The agency's analysis should consider a timeframe that is appropriate for the project. The agency's analysis also must reasonably reflect evolving scientific knowledge and state regulatory schemes. Additionally, a lead agency may use a model or methodology to estimate GHG emissions resulting from a project. The lead agency has discretion to select the model or methodology it considers most appropriate to enable decision makers to intelligently take into account the project's incremental contribution to climate change. The lead agency must support its selection of a model or methodology with substantial evidence. The lead agency should explain the limitations of the particular model or methodology selected for use (46).

2.7.4 REGIONAL

The Project is within the SCAB, which is under the jurisdiction of the SCAQMD.

SCAQMD

SCAQMD is the agency responsible for air quality planning and regulation in the SCAB. The SCAQMD addresses the impacts to climate change of projects subject to SCAQMD permit as a lead agency if they are the only agency having discretionary approval for the project and acts as a responsible agency when a land use agency must also approve discretionary permits for the project. The SCAQMD acts as an expert commenting agency for impacts to air quality. This expertise carries over to GHG emissions, so the agency helps local land use agencies through the development of models and emission thresholds that can be used to address GHG emissions.

In 2008, SCAQMD formed a Working Group to identify GHG emissions thresholds for land use projects that could be used by local lead agencies in the SCAB. The Working Group developed several different options that are contained in the SCAQMD Draft Guidance Document – Interim CEQA GHG Significance Threshold, which could be applied by lead agencies. The working group has not provided additional guidance since release of the interim guidance in 2008. The SCAQMD Board has not approved the thresholds; however, the Guidance Document provides substantial evidence supporting the approaches to significance of GHG emissions that can be considered by the lead agency in adopting its own threshold. The current interim thresholds consist of the following tiered approach:

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be consistent with all projects within its jurisdiction. A project's construction emissions are averaged over 30 years

and are added to the project's operational emissions. If a project's emissions are below one of the following screening thresholds, then the project is less than significant:

- Residential and commercial land use: 3,000 $MTCO_2e$/yr.
- Industrial land use: 10,000 $MTCO_2e$/yr.
- Based on land use type: residential: 3,500 $MTCO_2e$/yr.; commercial: 1,400 $MTCO_2e$/yr.; or mixed use: 3,000 $MTCO_2e$/yr.

- Tier 4 has the following options:
  - Option 1: Reduce Business-as-Usual (BAU) emissions by a certain percentage; this percentage is currently undefined.
  - Option 2: Early implementation of applicable AB 32 Scoping Plan measures.
  - Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 $MTCO_2e$ per SP per year for projects and 6.6 $MTCO_2e$ per SP per year for plans.
  - Option 3, 2035 target: 3.0 $MTCO_2e$ per SP per year for projects and 4.1 $MTCO_2e$ per SP per year for plans.
- Tier 5 involves mitigation offsets to achieve target significance threshold.

The SCAQMD's interim thresholds used the Executive Order S-3-05-year 2050 goal as the basis for the Tier 3 screening level. Achieving the Executive Order's objective would contribute to worldwide efforts to cap CO_2 concentrations at 450 ppm, thus stabilizing global climate.

SCAQMD only has authority over GHG emissions from development projects that include air quality permits. At this time, it is unknown if the Project would include stationary sources of emissions subject to SCAQMD permits. Notwithstanding, if the Project requires a stationary permit, it would be subject to the applicable SCAQMD regulations.

SCAQMD Regulation XXVII, adopted in 2009 includes the following rules:

- Rule 2700 defines terms and post global warming potentials.
- Rule 2701, SoCal Climate Solutions Exchange, establishes a voluntary program to encourage, quantify, and certify voluntary, high quality certified GHG emission reductions in the SCAQMD.
- Rule 2702, GHG Reduction Program created a program to produce GHG emission reductions within the SCAQMD. The SCAQMD would fund projects through contracts in response to requests for proposals or purchase reductions from other parties.

2.7.5 LOCAL

CITY OF CALIMESA CLIMATE ACTION PLAN (CAP)

The City of Calimesa adopted a CAP in September 2014. The CAP is intended to address the main sources of the emissions that cause climate change, which include emissions from the energy consumed in buildings and for transportation, as well as the solid waste sent to landfills. The purpose of the CAP is to guide the development, enhancement, and ultimately the implementation of actions that will reduce the City's GHG emissions by 15% below baseline by 2020 and 49% below baseline by 2035. The CAP is considered a qualified GHG reduction plan in accordance with CEQA Guidelines Section 15183.5 through 2020. However, the CAP did not demonstrate compliance with the statewide GHG goal established by SB 32 for 2030 because it

was adopted prior to SB 32. Thus, the CAP cannot be relied upon to determine project-level significance.

MESA VERDE SPECIFIC PLAN AMENDMENT - SUSTAINABILITY

The Mesa Verde Specific Plan Amendment – Sustainability is a document that is apart of the overall specific plan which identifies a multitude of measures and goals that will allow for integrated, connected community intended to encourage day-to-day interaction between the mix of complimentary land uses and incorporate numerous sustainable principals and concepts. The following measures and goals are a part of the Sustainability document and although not quantified in this report for reductions, are directly related to reducing greenhouse gas emissions and overall environmental impacts.

- Solid Waste Management and Recycling: Inclusion of a recycling center and applicable recycling programs.
- Climate Change measures including:
  - Balanced communities with diverse land uses which reduce vehicle trips and GHG emissions.
  - Mixed uses which allow for compact developments that will reduce parking and vehicle trips.
  - Alternative Energy with solar roofs and EV charging.
  - Alternative Mobility includes complete streets, bicycle mobility and pedestrian greenways.
  - Energy Conservation through Title 24 requirements which will reduce energy consumption in the Specific Plan area.
  - Water Conservation through drought-tolerant material, reclaimed water and water efficient fixtures
  - Solar Energy panels included throughout the Specific Plan to meet Title 24 requirements as well as Zero net energy (if feasible).
- Landscape Environments conforming with the most recent and applicable State Model Water Efficient Landscape Ordinance **(MWELO)** to promote the conservation and efficient use of water.
- Electric Vehicles with installation of electrical conduit and outlet installation for New one- and two-unit single family dwellings or townhouses with attached private garages, EV-ready parking spaces for multifamily dwellings and EV-capable spaces based on parking spaces required for Non-residential uses.
- Encouraging LEED Neighborhood Development criteria for greener communities.

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3 PROJECT GHG IMPACT

3.1 INTRODUCTION

The Project has been evaluated to determine if it would result in a significant GHG impact. The significance of these potential impacts is described in the following sections.

3.2 STANDARDS OF SIGNIFICANCE

The criteria used to determine the significance of potential Project-related GHG impacts are taken from the Initial Study Checklist in Appendix G of the State *CEQA Guidelines* (14 CCR of Regulations §§15000, et seq.). Based on these significance criteria, a project would result in a significant impact related to GHG if it would (47):

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

The evaluation of an impact under CEQA requires measuring data from a project against both existing conditions and a "threshold of significance." For establishing significance thresholds, the Office of Planning and Research's amendments to the CEQA Guidelines Section 15064.7(c) state "[w]hen adopting thresholds of significance, a lead agency may consider thresholds of significance previously adopted or recommended by other public agencies, or recommended by experts, provided the decision of the lead agency to adopt such thresholds is supported by substantial evidence."

CEQA Guidelines Section 15064.4(a) further states, ". . . A lead agency shall have discretion to determine, in the context of a particular project, whether to: (1) Use a model or methodology to quantify greenhouse gas emissions resulting from a project, and which model or methodology to use . . .; or (2) Rely on a qualitative analysis or performance-based standards."

CEQA Guidelines Section 15064.4 provides that a lead agency should consider the following factors, among others, in assessing the significance of impacts from greenhouse gas emissions:

- **Consideration #1**: The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- **Consideration #2**: Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- **Consideration #3**: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial

evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

3.2.1 THRESHOLDS OF SIGNIFICANCE

The SCAQMD's adopted numerical threshold of 10,000 $MTCO_2e$/yr for industrial stationary source emissions (i.e., power generation and other heavy industrial facilities) is typically selected as the significance criterion. However, the City has determined that the SCAQMD's draft threshold of 3,000 $MTCO_2e$/yr is more conservative and appropriate for industrial and warehouse land use development projects. The 3,000 $MTCO_2e$/yr threshold is based on the SCAQMD staff's proposed GHG screening threshold for stationary source emissions for non-industrial projects, as described in the SCAQMD Interim Thresholds. The SCAQMD Interim Threshold identifies a screening threshold to determine whether additional analysis is required. It should be noted that although this threshold was never adopted by SCAQMD, it has been conservatively selected for the proposed Project in the absence of a more appropriate threshold.

3.3 MODELS EMPLOYED TO ANALYZE GHGS

3.3.1 CALIFORNIA EMISSIONS ESTIMATOR MODEL (CALEEMOD)

In May 2023 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod Version 2022.1.1.22. The purpose of this model is to calculate construction-source and operational-source criteria pollutants and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (48). Accordingly, the latest version of CalEEMod has been used for this Project to determine GHG emissions. Output from the model runs for construction and operational activity are provided in Appendices 3.1 through 3.2. CalEEMod includes GHG emissions from the following source categories: construction, area, energy, mobile, waste, water, on-site cargo equipment, and TRUs.

3.4 LIFE-CYCLE ANALYSIS NOT REQUIRED

Additionally, the SCAQMD recommends analyzing direct and indirect project GHG emissions generated within California and not life-cycle emissions because the life-cycle effects from a project could occur outside of California, might not be very well understood, or documented, and would be challenging to mitigate (49). Additionally, the science to calculate life cycle emissions is not yet established or well defined; therefore, SCAQMD has not recommended, and is not requiring, life-cycle emissions analysis.

3.5 CONSTRUCTION EMISSIONS

Project construction actvities would generate CO_2, CH_4, and N_2O emissions. The *Mesa Verde Specific Plan Air Quality Impact Analysis Report* (AQIA) contains detailed information regarding Project construction activities (50). As discussed in the AQIA, construction-related emissions are expected from the following activities:

a. Phase 1:

- Site Preparation
- Mass Grading Phase 1 + 2
- Building Construction
- Paving
- Architectural Coating

b. Phase 2:

- Site Preparation
- Mass Grading Phase 1 + 2
- Building Construction
- Paving
- Architectural Coating

c. Phase 3:

- Site Preparation
- Mass Grading Phase 3 + 4
- Building Construction
- Paving
- Architectural Coating

d. Phase 4:

- Site Preparation
- Mass Grading Phase 3 + 4
- Building Construction
- Paving
- Architectural Coating

e. Phase 5:

- Site Preparation
- Remedial Grading
- Building Construction
- Paving
- Architectural Coating

3.5.1 CONSTRUCTION DURATION

For purposes of analysis, construction of Project is expected to commence in July 2026 and last through December 2045. The construction schedule utilized in the analysis, shown in Table 3-1, represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent.[4] The duration of

[4] As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (51).

TABLE 3-1: CONSTRUCTION DURATION

Phase	Construction Activity	Start Date	End Date	Days
1	Site Preparation	7/1/2026	9/1/2026	45
	Mass Grading Phase 1 + 2	9/2/2026	6/2/2027	196
	Building Construction	6/3/2027	11/3/2028	372
	Paving	11/4/2028	8/4/2029	195
	Architectural Coating	8/5/2029	5/5/2030	195
2	Site Preparation	5/6/2030	6/20/2030	34
	Mass Grading Phase 1 + 2	6/21/2030	2/1/2031	161
	Building Construction	2/2/2031	5/2/2033	586
	Paving	5/3/2033	12/20/2033	166
	Architectural Coating	12/21/2033	9/1/2034	183
3	Site Preparation	5/1/2033	11/1/2033	132
	Mass Grading Phase 3 + 4	11/2/2033	3/2/2035	348
	Building Construction	3/3/2035	12/31/2038	1000
	Paving	6/1/2037	12/31/2038	415
	Architectural Coating	6/1/2037	12/31/2038	415
4	Site Preparation	1/1/2037	6/1/2037	108
	Mass Grading Phase 3 + 4	6/2/2037	9/2/2038	328
	Building Construction	9/3/2038	12/31/2040	607
	Paving	6/1/2039	12/31/2040	414
	Architectural Coating	6/1/2039	12/31/2040	414
5	Site Preparation	1/1/2041	5/1/2041	87
	Remedial Grading	5/2/2041	6/2/2042	283
	Building Construction	6/3/2042	12/31/2045	934
	Paving	6/1/2044	12/31/2045	413
	Architectural Coating	6/1/2044	12/31/2045	413

3.5.2 CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Tables 3-2 would operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed.

TABLE 3-2: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Phase	Construction Activity	Equipment[1]	Quantity	Hours
1	Site Preparation	Crawler Tractors	5	8
		Off-Highway Trucks	4	8
	Mass Grading Phase 1 + 2	Excavators	2	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	16	8
		Crawler Tractors	4	8
		Off-Highway Trucks	3	8
	Building Construction	Cranes	2	8
		Forklifts	6	8
		Generator Sets	2	8
		Tractors/Loaders/Backhoes	6	8
		Welders	2	8
	Paving	Pavers	2	8
		Paving Equipment	2	8
		Rollers	2	8
	Architectural Coating	Air Compressors	2	8
2	Site Preparation	Crawler Tractors	5	8
		Off-Highway Trucks	4	8
	Mass Grading Phase 1 + 2	Excavators	1	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	14	8
		Crawler Tractors	4	8
		Off-Highway Trucks	4	8
	Building Construction	Cranes	2	8
		Forklifts	7	8
		Generator Sets	2	8
		Tractors/Loaders/Backhoes	7	8
		Welders	2	8
	Paving	Pavers	2	8
		Paving Equipment	2	8

Phase	Construction Activity	Equipment[1]	Quantity	Hours
		Rollers	2	8
	Architectural Coating	Air Compressors	1	8
3	Site Preparation	Crawler Tractors	5	8
		Off-Highway Trucks	4	8
	Mass Grading Phase 3 + 4	Excavators	1	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	14	8
		Crawler Tractors	4	8
		Off-Highway Trucks	4	8
	Building Construction	Cranes	3	8
		Forklifts	8	8
		Generator Sets	3	8
		Tractors/Loaders/Backhoes	8	8
		Welders	3	8
	Paving	Pavers	3	8
		Paving Equipment	3	8
		Rollers	3	8
	Architectural Coating	Air Compressors	1	8
4	Site Preparation	Crawler Tractors	5	8
		Off-Highway Trucks	4	8
	Mass Grading Phase 3 + 4	Excavators	1	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	14	8
		Crawler Tractors	4	8
		Off-Highway Trucks	4	8
	Building Construction	Cranes	2	8
		Forklifts	7	8
		Generator Sets	2	8
		Tractors/Loaders/Backhoes	7	8
		Welders	2	8
		Pavers	2	8

Phase	Construction Activity	Equipment[1]	Quantity	Hours
	Paving	Paving Equipment	2	8
		Rollers	2	8
	Architectural Coating	Air Compressors	1	8
5	Site Preparation	Crawler Tractors	5	8
		Off-Highway Trucks	4	8
	Remedial Grading	Excavators	1	8
		Graders	2	8
		Rubber Tired Dozers	2	8
		Scrapers	14	8
		Crawler Tractors	4	8
		Off-Highway Trucks	4	8
	Building Construction	Cranes	2	8
		Forklifts	7	8
		Generator Sets	2	8
		Tractors/Loaders/Backhoes	7	8
		Welders	2	8
	Paving	Pavers	2	8
		Paving Equipment	2	8
		Rollers	2	8
	Architectural Coating	Air Compressors	1	8

3.5.3 CONSTRUCTION EMISSIONS SUMMARY

For construction phase Project emissions, GHGs are quantified and amortized over the life of the Project. To amortize the emissions over the life of the Project, the SCAQMD recommends calculating the total GHG emissions for the construction activities, dividing it by a 30-year Project life then adding that number to the annual operational phase GHG emissions (52). As such, construction emissions were amortized over a 30-year period and added to the annual operational phase GHG emissions. The amortized construction emissions are presented in Tables 3-3 and 3-4.

TABLE 3-3: AMORTIZED ANNUAL CONSTRUCTION EMISSIONS

Phase	Year	Emissions (MT/yr.)				
		CO_2	CH_4	N_2O	R[A]	Total CO_2e[B]
1	2026	1,855.00	0.07	0.03	0.19	1,866.00
	2027	3,653.00	0.12	0.12	1.75	3,692.00
	2028	2,244.00	0.05	0.12	2.08	2,284.00
	2029	404.00	0.01	0.03	0.3	414.00
	2030	109.00	<0.005	<0.005	0.1	111.00
2	2030	2,595.00	0.1	0.04	0.14	2,608.00
	2031	2,600.00	0.06	0.13	1.44	2,642.00
	2032	2,373.00	0.05	0.14	1.37	2,417.00
	2033	1,012.00	0.02	0.05	0.47	1,027.00
	2034	163.00	<0.005	<0.005	0.1	163.00
3	2033	1,242.00	0.05	0.02	0.06	1,249.00
	2034	4,670.00	0.18	0.06	0.15	4,693.00
	2035	2,885.00	0.08	0.08	0.78	2,912.00
	2036	2,508.00	0.06	0.09	0.79	2,536.00
	2037	2,908.00	0.06	0.1	0.78	2,940.00
4	2038	3,183.00	0.07	0.11	0.72	3,219.00
	2037	3,042.00	0.12	0.03	0.05	3,055.00
	2038	3,546.00	0.13	0.04	0.13	3,562.00
	2039	1,698.00	0.04	0.04	0.29	1,711.00
	2040	1,875.00	0.05	0.05	0.27	1,891.00
5	2041	3,321.00	0.13	0.03	0.02	3,334.00
	2042	2,648.00	0.1	0.03	0.08	2,661.00
	2043	1,287.00	0.03	0.03	0.1	1,296.00
	2044	1,502.00	0.04	0.03	0.1	1,513.00
	2045	1,647.00	0.04	0.04	0.09	1,658.00
Total Construction Emissions		**54,970.00**	**1.66**	**1.44**	**12.35**	**55,454.00**
Amortized Construction Emissions		**1,832.33**	**0.06**	**0.05**	**0.41**	**1,848.47**

Source: CalEEMod annual construction-source emissions are presented in Appendix 3.1.

[A] Refrigerants

[B] CalEEMod reports the most common GHGs emitted which include CO_2, CH_4, and N_2O. These GHGs are then converted into the CO_2e by multiplying the individual GHG by the GWP.

3.6 OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of CO_2, CH_4, N_2O and R from the following primary sources:

- Area Source Emissions
- Energy Source Emissions
- Mobile Source Emissions
- Transportation Refrigeration Units (TRU) Source Emissions
- On-Site Cargo Handling Equipment Emissions
- Stationary Source Emissions
- Water Supply, Treatment, and Distribution
- Solid Waste
- Refrigerants

3.6.1 AREA SOURCE EMISSIONS

LANDSCAPE MAINTENANCE EQUIPMENT

Landscape maintenance equipment would generate emissions from fuel combustion and evaporation of unburned fuel. Equipment in this category would include lawnmowers, shedders/grinders, blowers, trimmers, chain saws, and hedge trimmers used to maintain the landscaping of the Project. It should be noted that on October 9, 2021, Governor Gavin Newsom signed AB 1346. The bill aims to ban the sale of new gasoline-powered equipment under 25 gross horsepower (known as small off-road engines [SOREs]) by January 1, 2024, which is now in effect. However, for purposes of analysis, the emissions associated with landscape maintenance equipment were calculated based on assumptions provided in CalEEMod, and do not incorporate the emissions reductions that would be realized from implementation of AB 1346.

3.6.2 ENERGY SOURCE EMISSIONS

COMBUSTION EMISSIONS ASSOCIATED WITH NATURAL GAS AND ELECTRICITY

GHGs are emitted from buildings as a result of activities for which electricity and natural gas are typically used as energy sources. Combustion of any type of fuel emits CO_2 and other GHGs directly into the atmosphere; these emissions are considered direct emissions associated with a building; the building energy use emissions do not include street lighting[5]. GHGs are also emitted during the generation of electricity from fossil fuels; these emissions are considered to be indirect emissions. Electricity usage associated with the Project were calculated by CalEEMod using default parameters. It should be noted that there is no natural gas usage associated with the proposed Project.

[5] The CalEEMod emissions inventory model does not include indirect emission related to street lighting. Indirect emissions related to street lighting are expected to be negligible and cannot be accurately quantified at this time as there is insufficient information as to the number and type of street lighting that would occur.

3.6.3 MOBILE SOURCE EMISSIONS

The Project-related GHG emissions derive primarily from vehicle trips generated by the Project, including employee trips to and from the site and truck trips associated with the proposed uses. Trip characteristics available from the *Mesa Verde Specific Plan Traffic Analysis* were utilized in this analysis (53).

APPROACH FOR ANALYSIS OF THE PROJECT

In order to determine emissions from passenger car vehicles from industrial and non-industrial uses, CalEEMod defaults for trip length and trip purpose were utilized.

For the proposed industrial uses, it is important to note that although the *Mesa Verde Specific Plan Traffic Analysis* does not breakdown passenger cars by type, this analysis assumes that passenger cars include Light-Duty-Auto vehicles (LDA), Light-Duty-Trucks (LDT1[6] & LDT2[7]), Medium-Duty-Vehicles (MDV), and Motorcycles (MCY) vehicle types. In order to account for emissions generated by passenger cars, the fleet mix in Table 3-4 was utilized for industrial uses. The CalEEMod default fleet mix was used for non-industrial uses.

TABLE 3-4: PASSENGER CAR FLEET MIX

Phase	Operational Year	Land Use	% Vehicle Type				
			LDA	LDT1	LDT2	MDV	MCY
1	2030	High-Cube Parcel Hub	53.47%	3.75%	23.69%	16.72%	2.38%
		High-Cube Cold Storage					
2	2035	High-Cube Parcel Hub	52.89%	3.45%	24.95%	16.46%	2.25%
		High-Cube Cold Storage					
3	2038	High-Cube Parcel Hub	52.67%	3.33%	25.40%	16.40%	2.21%
		High-Cube Cold Storage					
4	2040	High-Cube Parcel Hub	52.59%	3.27%	25.61%	16.35%	2.18%
		High-Cube Cold Storage					
5	2045	High-Cube Parcel Hub	52.53%	3.17%	25.89%	16.29%	2.13%
		High-Cube Cold Storage					

Note: The Project-specific passenger car fleet mix used in this analysis is based on a proportional split utilizing the default CalEEMod percentages assigned to LDA, LDT1, LDT2, and MDV vehicle types.

To determine emissions from trucks for the proposed industrial uses, a conservative trip length of 60 miles was utilized, as shown in Table 3-7. This trip length assumption is higher than the CalEEMod default trip length. Heavy trucks are broken down by truck type (or axle type) and are

[6] Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

[7] Vehicles under the LDT2 category have a GVWR of less than 6,000 lbs. and ETW between 3,751 lbs. and 5,750 lbs.

categorized as either Light-Heavy-Duty Trucks (LHDT1[8] & LHDT2[9])/2-axle, Medium-Heavy-Duty Trucks (MHDT)/3-axle, and Heavy-Heavy-Duty Trucks (HHDT)/4+-axle. To account for emissions generated by trucks, the fleet mix in Table 3-5 was utilized. It should be noted that passenger vehicle internal trip reductions identified in the Project traffic analysis were conservatively accounted for in CalEEMod as pass-by trips, which assume a trip length of 0.1 mile per trip.

TABLE 3-5: TRUCK FLEET MIX

Phase	Operational Year	Land Use	Trip Length (miles)	% Vehicle Type			
				LHDT1	LHDT2	MHDT	HHDT
1	2030	High-Cube Parcel Hub	60	23.47%	6.73%	13.39%	56.41%
		High-Cube Cold Storage					
2	2035	High-Cube Parcel Hub	60	20.21%	5.73%	15.64%	58.42%
		High-Cube Cold Storage					
3	2038	High-Cube Parcel Hub	60	18.57%	5.18%	16.94%	59.30%
		High-Cube Cold Storage					
4	2040	High-Cube Parcel Hub	60	18.60%	5.15%	16.94%	59.30%
		High-Cube Cold Storage					
5	2045	High-Cube Parcel Hub	60	18.63%	5.12%	16.94%	59.30%
		High-Cube Cold Storage					

Note: Project-specific truck fleet mix is based on the number of trips generated by each truck type (LHDT1, LHDT2, MHDT, and HHDT) relative to the total number of truck trips.

3.6.4 TRU SOURCE EMISSIONS

In order to account for the possibility of refrigerated uses, trucks associated with the cold-storage land use are assumed to also have TRUs. Therefore, for modeling purposes 263 trucks (526 two-way truck trips per day) have the potential to include TRUs. TRUs are accounted for during on-site and off-site travel. The TRU calculations are based on EMissions FACtor Model version 2021 (EMFAC2021), developed by the CARB. EMFAC2021 does not provide emission rates per hour or mile as with the on-road emission model and only provides emission inventories. Emission results are produced in tons per day while all activity, fuel consumption and horsepower hours were reported at annual levels. The emission inventory is based on specific assumptions including the average horsepower rating of specific types of equipment and the hours of operation annually. These assumptions are not always consistent with assumptions used in the modeling of project level emissions. Therefore, the emissions inventory was converted into emission rates to accurately calculate emissions from TRU operation associated with project level details. This was accomplished by converting the annual horsepower hours to daily operational characteristics and

[8] Vehicles under the LHDT1 category have a GVWR of 8,501 to 10,000 lbs.

[9] Vehicles under the LHDT2 category have a GVWR of 10,001 to 14,000 lbs.

converting the daily emission levels into hourly emission rates based on the total emissions of each pollutant by equipment type and the average daily hours of operation.

3.6.5 On-Site Cargo Handling Equipment Emissions

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this Project, on-site modeled operational equipment includes up to sixteen (16) 175 hp, natural gas-powered cargo handling equipment – port tractor operating 4 hours a day[10] for 365 days of the year under both scenarios.

3.6.6 Stationary Source Emissions

The proposed Project was conservatively assumed to include installation of eight 300-horsepower diesel-powered fire pumps at Project buildout (one for each industrial building). Additionally, in order to support cold storage uses, the Project was conservatively assumed to include the installation of one 800-horsepower emergency generator. The fire pumps and emergency generator were each estimated to operate for up to 1 hour per day, 1 day per week for up to 50 hours per year for maintenance and testing purposes. Emissions associated with the stationary diesel-powered emergency fire pumps and emergency generator were calculated using CalEEMod.

3.6.7 Water Supply, Treatment, and Distribution

Indirect GHG emissions result from the production of electricity used to convey, treat, and distribute water and wastewater. The amount of electricity required to convey, treat, and distribute water depends on the volume of water as well as the sources of the water. Unless otherwise noted, CalEEMod default parameters were used.

3.6.8 Solid Waste

The proposed uses would result in the generation and disposal of solid waste. A percentage of this waste would be diverted from landfills by a variety of means, such as reducing the amount of waste generated, recycling, and/or composting. The remainder of the waste not diverted would be disposed of at a landfill. GHG emissions from landfills are associated with the anaerobic breakdown of material. GHG emissions associated with the disposal of solid waste associated with the proposed Project were calculated by CalEEMod using default parameters.

3.6.9 Refrigerants

Air conditioning (A/C) and refrigeration equipment associated with the buildings are anticipated to generate GHG emissions. CalEEMod automatically generates a default A/C and refrigeration equipment inventory for each project land use subtype based on industry data from the USEPA (2016b). CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from

[10] Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

the lifetime estimate. Note that CalEEMod does not quantify emissions from the disposal of refrigeration and A/C equipment at the end of its lifetime. Per 17 CCR 95371, new facilities with refrigeration equipment containing more than 50 pounds of refrigerant are prohibited from utilizing refrigerants with a GWP of 150 or greater as of January 1, 2022. As such, it was conservatively assumed that refrigeration systems installed at the high-cube cold storage warehouse portion of the Project would utilize refrigerants with a GWP of 150. GHG emissions associated with refrigerants were calculated by CalEEMod.

3.6.10 EMISSIONS SUMMARY

The estimated Project-related GHG emissions are summarized in Tables 3-6 (without mitigation) and Table 3-7 (with mitigation). Detailed operation model outputs for the Project are presented in Appendices 3.1 and 3.2.

TABLE 3-6: GHG EMISSIONS (WITHOUT MITIGATION)

Emission Source	Emissions (MT/yr.)				
	CO_2	CH_4	N_2O	R	Total CO_2e
Annual construction-related emissions amortized over 30 years	1,832.33	0.06	0.05	0.41	1,848.47
Mobile Source	61,112.64	1.92	5.08	8.65	62,683.12
Area Source	161.00	0.01	<0.005	0.00	162.00
Energy Source	10,251.00	1.30	0.16	0.00	10,330.00
Stationary Source	60.90	<0.005	<0.005	0.00	61.10
Water Usage	1,831.00	38.90	0.94	0.00	3,085.00
Waste	771.00	77.00	0.00	0.00	2,697.00
Refrigeration	0.00	0.00	0.00	158.00	158.00
TRU					1,486.31
Cargo Handling Equipment					758.00
Total CO_2e (All Sources)	**83,269.00**				

Source: CalEEMod output, See Appendices 3.1 and 3.2 for detailed model outputs.

TABLE 3-7: GHG EMISSIONS (WITH MITIGATION)

Emission Source	Emissions (MT/yr.)				
	CO_2	CH_4	N_2O	R	Total CO_2e
Annual construction-related emissions amortized over 30 years	1,832.33	0.06	0.05	0.41	1,848.47
Mobile Source	61,112.64	1.92	5.08	8.65	62,683.12
Area Source	161.00	0.01	<0.005	0.00	162.00
Energy Source	10,136.00	1.28	0.16	0.00	10,214.00
Stationary Source	60.90	<0.005	<0.005	0.00	61.10

Emission Source	Emissions (MT/yr.)				
	CO_2	CH_4	N_2O	R	Total CO_2e
Water Usage	1,816.00	38.50	0.93	0.00	3,055.00
Waste	771.00	77.00	0.00	0.00	2,697.00
Refrigeration	0.00	0.00	0.00	158.00	158.00
TRU					1,486.31
Cargo Handling Equipment					758.00
Total CO_2e (All Sources)	**83,123.00**				

Source: CalEEMod output, See Appendices 3.1 and 3.2 for detailed model outputs.

3.7 COMPARISON TO CURRENTLY APPROVED PROJECT

3.7.1 CURRENTLY APPROVED PROJECT GHG EMISSIONS

The estimated GHG emissions for Project buildout conditions relative to the Currently Approved Project, consisting of 3,292 single family dwelling units, 358 multifamily dwelling units, 47.9 acres of active park, 8,000 square foot recreation community center on 8.2-acres, 2 elementary schools with 1,200 students, and 250,000 square feet of commercial retail use, are summarized in Table 3-8.

TABLE 3-8: CURRENTLY APPROVED PROJECT GHG EMISSIONS

Emission Source	Emissions (MT/yr.)				
	CO_2	CH_4	N_2O	R	Total CO_2e
Total CO_2e (All Sources)	**74,513.00**				

Source: CalEEMod output, See Appendix 3.2 for detailed model outputs.

3.7.2 COMPARISON TO CURRENTLY APPROVED PROJECT GHG EMISSIONS

As shown in Table 3-9, the proposed Project is anticipated to result in increased GHG emissions as compared to emissions generated by the currently approved Project. The emissions comparison presented below is for informational purposes only and was not utilized for evaluating project significance.

TABLE 3-9: GHG EMISSIONS COMPARISON

Emission Source	Total CO_2e
Currently Approved Project	74,513.00
Proposed Project (Operations only)	81,274.53
Difference (Proposed –Approved)	***6,761.53***

3.8 GHG EMISSIONS FINDINGS AND RECOMMENDATIONS

3.8.1 GHG IMPACT 1

GHG -1: Would the Project generate GHG emissions either directly or indirectly, that may have a significant impact on the environment?

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA *CEQA and Climate Change* handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 $MTCO_2e$/yr for all projects (54).

At buildout, the proposed Project has the potential to generate a total of approximately 71,814.88 $MTCO_2e$/yr without mitigation and 71,668.88 $MTCO_2e$/yr with mitigation. As such, the Project would exceed the SCAQMD's numeric threshold of 3,000 $MTCO_2e$/yr if it were applied. Thus, the Project would have the potential to result in a cumulatively considerable impact with respect to GHG emissions.

The Project would have the potential to generate direct or indirect GHG emissions that would result in a significant impact on the environment.

3.8.2 GHG IMPACT 2

Potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

SCAG RTP/SCS CONSISTENCY

The *2024-2050 RTP/SCS* indicates that the project site is located in a jobs poor area. Providing more jobs may reduce regional GHG emissions and reduce regional VMT as it will provide local jobs to achieve a more favorable jobs-housing balance.

The proposed Project would increase regional employment by approximately 8,509 jobs (55). According to SCAG's *2024-2050 RTP/SCS*, employment within Riverside County in 2019 is approximately 847,000 jobs with an anticipated increase to approximately 1,185,000 jobs by 2050, a growth of approximately 338,000 jobs (56). The proposed Project represents 2.52% of the anticipated increase in jobs, and therefore, would not result in long-term operational employment growth that exceeds planned growth projections in the RTP/SCS or the AQMP, or result in employment growth that would substantially add to traffic congestion. Additionally, the Project would comply with the policies set forth in the *2024-2050 RTP/SCS* by reducing vehicle trips and VMT, increasing the use of alternative fuel vehicles, and improving energy efficiency through Mitigation Measures AQ-1 through AQ-23. As explained in the *Mesa Verde Specific Plan Amendment 2 Transportation Impact Assessment*, the Project would result in a reduction in vehicle miles traveled (VMT) per service population and would result in less than significant VMT

impacts. As such, the proposed Project is considered to be consistent with the *2024-2050 RTP/SCS*.

2022 SCOPING PLAN CONSISTENCY

As previously stated, pursuant to 15604.4 of the *CEQA Guidelines*, a lead agency may rely on qualitative analysis or performance-based standards to determine the significance of impacts from GHG emissions (46). As such, the Project's consistency with the 2022 Scoping Plan, is discussed below. It should be noted that the Project's consistency with the 2022 Scoping Plan also satisfies consistency with AB 32 since the 2022 Scoping Plan is based on the overall targets established by AB 32 and SB 32. Consistency with the 2008 and 2017 Scoping Plan is not necessary, since both of these plans have been superseded by the 2022 Scoping Plan. As previously noted, the 2022 Scoping Plan advocates for compliance with a local CAP to determine consistency.

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. Some of the current transportation sector policies the Project will comply with (through vehicle manufacturer compliance) include: Advanced Clean Cars II, Advanced Clean Trucks, Advanced Clean Fleets, Zero Emission Forklifts, the Off-Road Zero-Emission Targeted Manufacturer Rule, Clean Off-Road Fleet Recognition Program, In-Use Off-Road Diesel-Fueled Fleets Regulation, carbon pricing through the Cap-and-Trade Program, and the Low Carbon Fuel Standard. Further, the Project will comply with the applicable Title 24 energy efficiency requirements in place at the time that plan check submittals are made. Further, the Project would not utilize natural gas, in support of the building decarbonization goals of the 2022 Scoping Plan. As such, the proposed Project is considered to be consistent with the 2022 Scoping Plan.

CITY OF CALIMESA CAP CONSISTENCY

As previously stated, the CAP is considered a qualified GHG reduction plan in accordance with CEQA Guidelines Section 15183.5 through 2020. However, the CAP did not demonstrate compliance with the statewide GHG goal established by SB 32 for 2030 because it was adopted prior to SB 32. Thus, the CAP cannot be relied upon to determine project-level significance.

MESA VERDE SPECIFIC PLAN AMENDMENT – SUSTAINABILITY CONSISTENCY

As mentioned previously, the Mesa Verde Specific Plan Amendment – Sustainability document is a part of the overall specific plan which identifies a multitude of measures and goals that will allow for integrated, connected community intended to encourage day-to-day interaction between the mix of complimentary land uses and incorporate numerous sustainable principals and concepts. The Project would be consistent with the measures identified in the Sustainability document to the extent feasible, therefore greenhouse gas emissions associated with the proposed Project would be reduced further than reductions taken in this analysis.

The Project would not conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs.

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5 CERTIFICATIONS

The contents of this GHG study report represent an accurate depiction of the GHG impacts associated with the proposed Mesa Verde Specific Plan Project. The information contained in this GHG report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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Principal
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EDUCATION

Master of Science in Environmental Studies
California State University, Fullerton • May 2010

Bachelor of Arts in Environmental Analysis and Design
University of California, Irvine • June 2006

PROFESSIONAL AFFILIATIONS

AEP – Association of Environmental Professionals
AWMA – Air and Waste Management Association
ASTM – American Society for Testing and Materials

PROFESSIONAL CERTIFICATIONS

Planned Communities and Urban Infill – Urban Land Institute • June 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April 2008
Principles of Ambient Air Monitoring – California Air Resources Board • August 2007
AB2588 Regulatory Standards – Trinity Consultants • November 2006
Air Dispersion Modeling – Lakes Environmental • June 2006

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APPENDIX 3.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

15218 Mesa Verde Ph1 Construction Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph1 Construction
Construction Start Date	7/1/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.99658016182559, -117.07425469739829
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	1,400	1000sqft	32.1	1,400,000	0.00	—	—	—

City Park	12.7	Acre	12.7	0.00	0.00	0.00	—	—
Single Family Housing	709	Dwelling Unit	230	1,382,550	8,304,416	—	2,290	—
Apartments Low Rise	185	Dwelling Unit	11.6	196,100	0.00	—	598	—
Parking Lot	47.6	Acre	47.6	0.00	0.00	—	—	—
Government (Civic Center)	16.5	1000sqft	0.38	16,500	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.9	87.9	144	136	0.39	5.94	14.1	16.2	5.47	3.36	8.19	—	43,252	43,252	1.71	1.17	52.6	43,521
Mit.	5.69	20.7	23.9	208	0.39	0.83	14.1	14.4	0.83	3.36	3.63	—	43,252	43,252	1.71	1.17	52.6	43,521
% Reduced	71%	76%	83%	-52%	—	86%	—	11%	85%	—	56%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	19.9	87.8	144	135	0.39	5.94	14.1	16.2	5.47	3.36	8.19	—	43,173	43,173	1.68	1.17	1.36	43,432
Mit.	5.47	20.6	24.1	207	0.39	0.83	14.1	14.4	0.83	3.36	3.63	—	43,173	43,173	1.68	1.17	1.36	43,432
% Reduced	72%	77%	83%	-53%	—	86%	—	11%	85%	—	56%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.70	26.2	52.2	73.7	0.15	1.98	8.83	10.8	1.82	2.19	4.01	—	22,065	22,065	0.71	0.75	12.6	22,302
Mit.	3.58	6.47	13.6	97.4	0.15	0.36	8.83	9.19	0.36	2.19	2.54	—	22,065	22,065	0.71	0.75	12.6	22,302
% Reduced	59%	75%	74%	-32%	—	82%	—	15%	80%	—	37%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.59	4.78	9.53	13.5	0.03	0.36	1.61	1.97	0.33	0.40	0.73	—	3,653	3,653	0.12	0.12	2.08	3,692
Mit.	0.65	1.18	2.48	17.8	0.03	0.07	1.61	1.68	0.07	0.40	0.46	—	3,653	3,653	0.12	0.12	2.08	3,692
% Reduced	59%	75%	74%	-32%	—	82%	—	15%	80%	—	37%	—	—	—	—	—	—	—

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	19.9	16.7	144	136	0.39	5.94	10.3	16.2	5.47	2.73	8.19	—	43,252	43,252	1.71	0.73	9.89	43,521
2027	19.3	16.2	133	135	0.39	5.51	14.1	15.8	5.07	3.36	7.80	—	43,182	43,182	1.68	1.17	52.6	43,444
2028	7.03	6.04	27.1	90.3	0.08	0.72	14.1	14.8	0.67	3.36	4.03	—	22,633	22,633	0.43	1.17	47.3	23,040
2029	1.07	87.9	8.71	14.3	0.03	0.27	2.57	2.60	0.25	0.60	0.63	—	3,900	3,900	0.10	0.35	6.61	4,012
2030	1.02	87.8	2.60	13.5	< 0.005	0.03	2.57	2.60	0.03	0.60	0.63	—	2,875	2,875	0.04	0.10	5.87	2,910

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	19.9	16.7	144	135	0.39	5.94	10.3	16.2	5.47	2.73	8.19	—	43,173	43,173	1.68	0.73	0.26	43,432
2027	19.2	16.1	134	133	0.39	5.51	14.1	15.8	5.07	3.36	7.80	—	43,105	43,105	1.68	1.17	1.36	43,358
2028	6.43	5.82	27.8	75.5	0.08	0.72	14.1	14.8	0.67	3.36	4.03	—	21,591	21,591	0.46	1.17	1.23	21,953
2029	1.03	87.8	8.81	11.5	0.03	0.27	2.57	2.60	0.25	0.60	0.63	—	3,887	3,887	0.10	0.35	0.17	3,993
2030	0.99	87.8	2.69	11.0	< 0.005	0.03	2.57	2.60	0.03	0.60	0.63	—	2,674	2,674	0.04	0.10	0.15	2,703
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.18	4.35	36.9	35.2	0.10	1.55	2.57	4.12	1.43	0.67	2.10	—	11,204	11,204	0.44	0.19	1.15	11,273
2027	8.70	7.34	52.2	73.7	0.15	1.98	8.83	10.8	1.82	2.19	4.01	—	22,065	22,065	0.71	0.70	10.6	22,302
2028	3.98	3.66	17.8	48.3	0.05	0.47	8.47	8.93	0.43	2.02	2.45	—	13,552	13,552	0.29	0.75	12.6	13,795
2029	0.71	26.2	4.55	8.29	0.01	0.13	1.10	1.22	0.12	0.27	0.39	—	2,443	2,443	0.06	0.17	1.80	2,498
2030	0.24	21.5	0.66	2.79	< 0.005	0.01	0.62	0.62	0.01	0.14	0.15	—	661	661	0.01	0.02	0.62	669
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.95	0.79	6.73	6.42	0.02	0.28	0.47	0.75	0.26	0.12	0.38	—	1,855	1,855	0.07	0.03	0.19	1,866
2027	1.59	1.34	9.53	13.5	0.03	0.36	1.61	1.97	0.33	0.40	0.73	—	3,653	3,653	0.12	0.12	1.75	3,692
2028	0.73	0.67	3.25	8.81	0.01	0.09	1.54	1.63	0.08	0.37	0.45	—	2,244	2,244	0.05	0.12	2.08	2,284
2029	0.13	4.78	0.83	1.51	< 0.005	0.02	0.20	0.22	0.02	0.05	0.07	—	404	404	0.01	0.03	0.30	414
2030	0.04	3.92	0.12	0.51	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	109	109	< 0.005	< 0.005	0.10	111

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	4.42	4.29	23.9	208	0.39	0.83	10.3	11.1	0.83	2.73	3.55	—	43,252	43,252	1.71	0.73	9.89	43,521

2027	5.69	4.99	23.8	207	0.39	0.83	14.1	14.4	0.82	3.36	3.63	—	43,182	43,182	1.68	1.17	52.6	43,444
2028	5.51	4.84	14.1	94.8	0.08	0.26	14.1	14.4	0.26	3.36	3.62	—	22,633	22,633	0.43	1.17	47.3	23,040
2029	1.07	20.7	4.54	14.3	0.03	0.12	2.57	2.60	0.11	0.60	0.63	—	3,900	3,900	0.10	0.35	6.61	4,012
2030	1.02	20.6	2.60	13.5	< 0.005	0.03	2.57	2.60	0.03	0.60	0.63	—	2,875	2,875	0.04	0.10	5.87	2,910
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.40	4.27	24.1	207	0.39	0.83	10.3	11.1	0.83	2.73	3.55	—	43,173	43,173	1.68	0.73	0.26	43,432
2027	5.47	4.76	23.9	206	0.39	0.83	14.1	14.4	0.82	3.36	3.63	—	43,105	43,105	1.68	1.17	1.36	43,358
2028	4.91	4.61	14.8	80.1	0.08	0.26	14.1	14.4	0.26	3.36	3.62	—	21,591	21,591	0.46	1.17	1.23	21,953
2029	1.03	20.6	4.64	12.0	0.03	0.12	2.57	2.60	0.11	0.60	0.63	—	3,887	3,887	0.10	0.35	0.17	3,993
2030	0.99	20.6	2.69	11.0	< 0.005	0.03	2.57	2.60	0.03	0.60	0.63	—	2,674	2,674	0.04	0.10	0.15	2,703
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.14	1.10	6.23	53.9	0.10	0.21	2.57	2.78	0.21	0.67	0.88	—	11,204	11,204	0.44	0.19	1.15	11,273
2027	3.58	3.25	13.6	97.4	0.15	0.36	8.83	9.19	0.36	2.19	2.54	—	22,065	22,065	0.71	0.70	10.6	22,302
2028	3.01	2.89	9.45	51.1	0.05	0.17	8.47	8.64	0.17	2.02	2.18	—	13,552	13,552	0.29	0.75	12.6	13,795
2029	0.53	6.47	2.78	8.58	0.01	0.06	1.10	1.16	0.06	0.27	0.33	—	2,443	2,443	0.06	0.17	1.80	2,498
2030	0.24	5.03	0.66	2.79	< 0.005	0.01	0.62	0.62	0.01	0.14	0.15	—	661	661	0.01	0.02	0.62	669
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.21	0.20	1.14	9.83	0.02	0.04	0.47	0.51	0.04	0.12	0.16	—	1,855	1,855	0.07	0.03	0.19	1,866
2027	0.65	0.59	2.48	17.8	0.03	0.07	1.61	1.68	0.07	0.40	0.46	—	3,653	3,653	0.12	0.12	1.75	3,692
2028	0.55	0.53	1.73	9.32	0.01	0.03	1.54	1.58	0.03	0.37	0.40	—	2,244	2,244	0.05	0.12	2.08	2,284
2029	0.10	1.18	0.51	1.57	< 0.005	0.01	0.20	0.21	0.01	0.05	0.06	—	404	404	0.01	0.03	0.30	414
2030	0.04	0.92	0.12	0.51	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	109	109	< 0.005	< 0.005	0.10	111

3. Construction Emissions Details

3.1. Site Preparation (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.73	3.14	22.2	24.2	0.07	1.19	—	1.19	1.09	—	1.09	—	7,078	7,078	0.29	0.06	—	7,102
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.39	2.73	2.98	0.01	0.15	—	0.15	0.13	—	0.13	—	873	873	0.04	0.01	—	876
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.50	0.54	< 0.005	0.03	—	0.03	0.02	—	0.02	—	144	144	0.01	< 0.005	—	145

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	310	310	0.01	0.01	1.05	315
Vendor	0.03	0.01	0.61	0.19	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	572	572	0.01	0.09	1.56	600
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.06	36.1
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.5	70.5	< 0.005	0.01	0.08	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.90	5.90	< 0.005	< 0.005	0.01	5.98
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2026) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,078	7,078	0.29	0.06	—	7,102
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.43	4.74	0.01	0.02	—	0.02	0.02	—	0.02	—	873	873	0.04	0.01	—	876
Dust From Material Movement	—	—	—	—	—	—	0.08	0.08	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.08	0.86	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	144	144	0.01	< 0.005	—	145
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	310	310	0.01	0.01	1.05	315
Vendor	0.03	0.01	0.61	0.19	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	572	572	0.01	0.09	1.56	600
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.06	36.1
Vendor	< 0.005	< 0.005	0.08	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.5	70.5	< 0.005	0.01	0.08	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.90	5.90	< 0.005	< 0.005	0.01	5.98
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	19.4	16.3	141	130	0.37	5.90	—	5.90	5.43	—	5.43	—	39,874	39,874	1.62	0.32	—	40,011

Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	19.4	16.3	141	130	0.37	5.90	—	5.90	5.43	—	5.43	—	39,874	39,874	1.62	0.32	—	40,011
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.60	3.87	33.3	30.9	0.09	1.40	—	1.40	1.29	—	1.29	—	9,442	9,442	0.38	0.08	—	9,474
Dust From Material Movement	—	—	—	—	—	—	2.05	2.05	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.84	0.71	6.08	5.63	0.02	0.26	—	0.26	0.23	—	0.23	—	1,563	1,563	0.06	0.01	—	1,569
Dust From Material Movement	—	—	—	—	—	—	0.37	0.37	—	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	0.34	0.31	0.28	5.21	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	1,000	1,000	0.04	0.03	3.39	1,015
Vendor	0.11	0.05	2.54	0.79	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,378	2,378	0.05	0.37	6.50	2,495
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.32	3.95	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	919	919	0.01	0.04	0.09	931
Vendor	0.11	0.05	2.65	0.81	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,380	2,380	0.05	0.37	0.17	2,491
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.98	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	220	220	< 0.005	0.01	0.35	223
Vendor	0.02	0.01	0.63	0.19	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	563	563	0.01	0.09	0.66	590
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.00	0.01	0.01	—	36.5	36.5	< 0.005	< 0.005	0.06	37.0
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.3	93.3	< 0.005	0.01	0.11	97.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2026) - Mitigated

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

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

Off-Road Equipment	3.97	3.93	21.1	202	0.37	0.80	—	0.80	0.79	—	0.79	—	39,874	39,874	1.62	0.32	—	40,011
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.97	3.93	21.1	202	0.37	0.80	—	0.80	0.79	—	0.79	—	39,874	39,874	1.62	0.32	—	40,011
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.94	0.93	5.00	47.8	0.09	0.19	—	0.19	0.19	—	0.19	—	9,442	9,442	0.38	0.08	—	9,474
Dust From Material Movement	—	—	—	—	—	—	2.05	2.05	—	0.55	0.55	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.17	0.91	8.72	0.02	0.03	—	0.03	0.03	—	0.03	—	1,563	1,563	0.06	0.01	—	1,569
Dust From Material Movement	—	—	—	—	—	—	0.37	0.37	—	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	0.34	0.31	0.28	5.21	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	1,000	1,000	0.04	0.03	3.39	1,015
Vendor	0.11	0.05	2.54	0.79	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,378	2,378	0.05	0.37	6.50	2,495
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.32	3.95	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	919	919	0.01	0.04	0.09	931
Vendor	0.11	0.05	2.65	0.81	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,380	2,380	0.05	0.37	0.17	2,491
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.98	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	220	220	< 0.005	0.01	0.35	223
Vendor	0.02	0.01	0.63	0.19	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	563	563	0.01	0.09	0.66	590
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.04	0.04	0.00	0.01	0.01	—	36.5	36.5	< 0.005	< 0.005	0.06	37.0
Vendor	< 0.005	< 0.005	0.12	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	93.3	93.3	< 0.005	0.01	0.11	97.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (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	18.8	15.8	131	129	0.37	5.47	—	5.47	5.03	—	5.03	—	39,866	39,866	1.62	0.32	—	40,003
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	18.8	15.8	131	129	0.37	5.47	—	5.47	5.03	—	5.03	—	39,866	39,866	1.62	0.32	—	40,003
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	5.64	4.74	39.2	38.6	0.11	1.64	—	1.64	1.51	—	1.51	—	11,937	11,937	0.48	0.10	—	11,977
Dust From Material Movement	—	—	—	—	—	—	2.59	2.59	—	0.69	0.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.86	7.15	7.05	0.02	0.30	—	0.30	0.28	—	0.28	—	1,976	1,976	0.08	0.02	—	1,983

Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.25	4.82	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	981	981	0.01	0.03	3.05	995
Vendor	0.11	0.05	2.44	0.77	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,335	2,335	0.05	0.35	5.94	2,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.27	0.28	3.64	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	903	903	0.01	0.03	0.08	913
Vendor	0.10	0.05	2.55	0.79	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,336	2,336	0.05	0.35	0.15	2,442
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.14	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	274	274	< 0.005	0.01	0.39	277
Vendor	0.03	0.01	0.76	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	699	699	0.02	0.10	0.77	732
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.3	45.3	< 0.005	< 0.005	0.07	45.9
Vendor	0.01	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.13	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (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	3.96	3.92	21.1	202	0.37	0.79	—	0.79	0.79	—	0.79	—	39,866	39,866	1.62	0.32	—	40,003
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.96	3.92	21.1	202	0.37	0.79	—	0.79	0.79	—	0.79	—	39,866	39,866	1.62	0.32	—	40,003
Dust From Material Movement	—	—	—	—	—	—	8.65	8.65	—	2.32	2.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.19	1.17	6.31	60.4	0.11	0.24	—	0.24	0.24	—	0.24	—	11,937	11,937	0.48	0.10	—	11,977
Dust From Material Movement	—	—	—	—	—	—	2.59	2.59	—	0.69	0.69	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	0.21	1.15	11.0	0.02	0.04	—	0.04	0.04	—	0.04	—	1,976	1,976	0.08	0.02	—	1,983
Dust From Material Movement	—	—	—	—	—	—	0.47	0.47	—	0.13	0.13	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.33	0.29	0.25	4.82	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	981	981	0.01	0.03	3.05	995
Vendor	0.11	0.05	2.44	0.77	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,335	2,335	0.05	0.35	5.94	2,446
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.27	0.28	3.64	0.00	0.00	0.95	0.95	0.00	0.22	0.22	—	903	903	0.01	0.03	0.08	913
Vendor	0.10	0.05	2.55	0.79	0.02	0.04	0.68	0.71	0.04	0.19	0.22	—	2,336	2,336	0.05	0.35	0.15	2,442
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.09	1.14	0.00	0.00	0.28	0.28	0.00	0.07	0.07	—	274	274	< 0.005	0.01	0.39	277
Vendor	0.03	0.01	0.76	0.23	0.01	0.01	0.20	0.21	0.01	0.06	0.07	—	699	699	0.02	0.10	0.77	732
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.21	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	45.3	45.3	< 0.005	< 0.005	0.07	45.9
Vendor	0.01	< 0.005	0.14	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	116	116	< 0.005	0.02	0.13	121
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.22	20.3	28.1	0.05	0.73	—	0.73	0.67	—	0.67	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.10	0.92	8.44	11.6	0.02	0.30	—	0.30	0.28	—	0.28	—	2,182	2,182	0.09	0.02	—	2,189
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	1.54	2.13	< 0.005	0.06	—	0.06	0.05	—	0.05	—	361	361	0.01	< 0.005	—	362
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.43	3.94	3.41	65.2	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	13,288	13,288	0.15	0.47	41.3	13,472
Vendor	0.20	0.09	4.64	1.46	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,433	4,433	0.10	0.66	11.3	4,644
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.21	3.72	3.85	49.3	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	12,221	12,221	0.17	0.47	1.07	12,365
Vendor	0.20	0.09	4.84	1.50	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,436	4,436	0.10	0.66	0.29	4,637
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.75	1.54	1.76	21.5	0.00	0.00	5.24	5.24	0.00	1.23	1.23	—	5,134	5,134	0.07	0.19	7.39	5,201
Vendor	0.08	0.04	2.01	0.61	0.01	0.03	0.53	0.55	0.03	0.15	0.17	—	1,840	1,840	0.04	0.28	2.02	1,925
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.28	0.32	3.92	0.00	0.00	0.96	0.96	0.00	0.22	0.22	—	850	850	0.01	0.03	1.22	861
Vendor	0.02	0.01	0.37	0.11	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	305	305	0.01	0.05	0.33	319
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2027) - Mitigated

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

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

Off-Road Equipment	1.06	0.95	6.39	32.7	0.05	0.21	—	0.21	0.20	—	0.20	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.06	0.95	6.39	32.7	0.05	0.21	—	0.21	0.20	—	0.20	—	5,259	5,259	0.21	0.04	—	5,277
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.44	0.40	2.65	13.5	0.02	0.09	—	0.09	0.08	—	0.08	—	2,182	2,182	0.09	0.02	—	2,189
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.48	2.47	< 0.005	0.02	—	0.02	0.02	—	0.02	—	361	361	0.01	< 0.005	—	362
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.43	3.94	3.41	65.2	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	13,288	13,288	0.15	0.47	41.3	13,472
Vendor	0.20	0.09	4.64	1.46	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,433	4,433	0.10	0.66	11.3	4,644
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.21	3.72	3.85	49.3	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	12,221	12,221	0.17	0.47	1.07	12,365

Vendor	0.20	0.09	4.84	1.50	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,436	4,436	0.10	0.66	0.29	4,637
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.75	1.54	1.76	21.5	0.00	0.00	5.24	5.24	0.00	1.23	1.23	—	5,134	5,134	0.07	0.19	7.39	5,201
Vendor	0.08	0.04	2.01	0.61	0.01	0.03	0.53	0.55	0.03	0.15	0.17	—	1,840	1,840	0.04	0.28	2.02	1,925
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.28	0.32	3.92	0.00	0.00	0.96	0.96	0.00	0.22	0.22	—	850	850	0.01	0.03	1.22	861
Vendor	0.02	0.01	0.37	0.11	< 0.005	0.01	0.10	0.10	0.01	0.03	0.03	—	305	305	0.01	0.05	0.33	319
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.56	2.14	19.3	28.1	0.05	0.65	—	0.65	0.60	—	0.60	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54	1.29	11.6	16.9	0.03	0.39	—	0.39	0.36	—	0.36	—	3,171	3,171	0.13	0.03	—	3,181
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	2.13	3.09	0.01	0.07	—	0.07	0.07	—	0.07	—	525	525	0.02	< 0.005	—	527
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.27	3.81	3.39	60.8	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	13,040	13,040	0.15	0.47	37.0	13,220
Vendor	0.20	0.09	4.41	1.42	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,332	4,332	0.07	0.66	10.3	4,542
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.68	3.59	3.83	46.0	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	11,995	11,995	0.17	0.47	0.96	12,139
Vendor	0.19	0.09	4.62	1.46	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,336	4,336	0.07	0.66	0.27	4,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.20	2.15	2.31	29.2	0.00	0.00	7.61	7.61	0.00	1.78	1.78	—	7,321	7,321	0.10	0.28	9.63	7,417
Vendor	0.12	0.05	2.80	0.87	0.02	0.04	0.76	0.80	0.04	0.21	0.25	—	2,612	2,612	0.04	0.40	2.67	2,735
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.39	0.42	5.33	0.00	0.00	1.39	1.39	0.00	0.33	0.33	—	1,212	1,212	0.02	0.05	1.59	1,228

Vendor	0.02	0.01	0.51	0.16	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	432	432	0.01	0.07	0.44	453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.93	6.31	32.6	0.05	0.20	—	0.20	0.19	—	0.19	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.04	0.93	6.31	32.6	0.05	0.20	—	0.20	0.19	—	0.19	—	5,260	5,260	0.21	0.04	—	5,278
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.56	3.80	19.7	0.03	0.12	—	0.12	0.11	—	0.11	—	3,171	3,171	0.13	0.03	—	3,181
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.10	0.69	3.59	0.01	0.02	—	0.02	0.02	—	0.02	—	525	525	0.02	< 0.005	—	527
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	4.27	3.81	3.39	60.8	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	13,040	13,040	0.15	0.47	37.0	13,220
Vendor	0.20	0.09	4.41	1.42	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,332	4,332	0.07	0.66	10.3	4,542
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.68	3.59	3.83	46.0	0.00	0.00	12.8	12.8	0.00	3.01	3.01	—	11,995	11,995	0.17	0.47	0.96	12,139
Vendor	0.19	0.09	4.62	1.46	0.03	0.07	1.28	1.35	0.07	0.35	0.42	—	4,336	4,336	0.07	0.66	0.27	4,536
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.20	2.15	2.31	29.2	0.00	0.00	7.61	7.61	0.00	1.78	1.78	—	7,321	7,321	0.10	0.28	9.63	7,417
Vendor	0.12	0.05	2.80	0.87	0.02	0.04	0.76	0.80	0.04	0.21	0.25	—	2,612	2,612	0.04	0.40	2.67	2,735
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.39	0.42	5.33	0.00	0.00	1.39	1.39	0.00	0.33	0.33	—	1,212	1,212	0.02	0.05	1.59	1,228
Vendor	0.02	0.01	0.51	0.16	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	—	432	432	0.01	0.07	0.44	453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.63	9.91	0.01	0.26	—	0.26	0.24	—	0.24	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.75	1.12	< 0.005	0.03	—	0.03	0.03	—	0.03	—	172	172	0.01	< 0.005	—	172
Paving	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.14	0.21	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	28.4	28.4	< 0.005	< 0.005	—	28.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	183	183	< 0.005	0.01	0.01	185
Vendor	0.10	0.05	2.40	0.76	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,255	2,255	0.04	0.35	0.14	2,359
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.03	21.3
Vendor	0.01	0.01	0.27	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	256	256	< 0.005	0.04	0.26	268
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.53
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.3	42.3	< 0.005	0.01	0.04	44.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.36	2.30	10.6	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.26	1.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	172	172	0.01	< 0.005	—	172
Paving	—	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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.22	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	28.4	28.4	< 0.005	< 0.005	—	28.5
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.70	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	183	183	< 0.005	0.01	0.01	185
Vendor	0.10	0.05	2.40	0.76	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,255	2,255	0.04	0.35	0.14	2,359
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	21.1	21.1	< 0.005	< 0.005	0.03	21.3
Vendor	0.01	0.01	0.27	0.09	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	256	256	< 0.005	0.04	0.26	268
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.49	3.49	< 0.005	< 0.005	< 0.005	3.53
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.3	42.3	< 0.005	0.01	0.04	44.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.80	0.67	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	0.67	6.46	9.92	0.01	0.24	—	0.24	0.22	—	0.22	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.34	0.28	2.73	4.19	0.01	0.10	—	0.10	0.09	—	0.09	—	639	639	0.03	0.01	—	641
Paving	—	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	0.06	0.05	0.50	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	—	106	106	< 0.005	< 0.005	—	106
Paving	—	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	0.06	0.06	0.04	0.87	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	196	196	< 0.005	0.01	0.50	198
Vendor	0.10	0.05	2.21	0.72	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,194	2,194	0.04	0.33	4.77	2,297
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.05	0.65	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	180	180	< 0.005	0.01	0.01	182
Vendor	0.10	0.05	2.30	0.74	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,196	2,196	0.04	0.33	0.12	2,295
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	77.1	77.1	< 0.005	< 0.005	0.09	78.1
Vendor	0.04	0.02	0.98	0.31	0.01	0.01	0.28	0.29	0.01	0.08	0.09	—	928	928	0.02	0.14	0.87	970
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.02	12.9
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	154	154	< 0.005	0.02	0.14	161
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.40	0.35	2.29	10.6	0.01	0.08	—	0.08	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.40	0.35	2.29	10.6	0.01	0.08	—	0.08	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.97	4.48	0.01	0.04	—	0.04	0.03	—	0.03	—	639	639	0.03	0.01	—	641
Paving	—	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	0.03	0.03	0.18	0.82	< 0.005	0.01	—	0.01	0.01	—	0.01	—	106	106	< 0.005	< 0.005	—	106
Paving	—	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	0.06	0.06	0.04	0.87	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	196	196	< 0.005	0.01	0.50	198
Vendor	0.10	0.05	2.21	0.72	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,194	2,194	0.04	0.33	4.77	2,297
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.05	0.65	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	180	180	< 0.005	0.01	0.01	182
Vendor	0.10	0.05	2.30	0.74	0.02	0.04	0.67	0.70	0.04	0.18	0.22	—	2,196	2,196	0.04	0.33	0.12	2,295
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	77.1	77.1	< 0.005	< 0.005	0.09	78.1
Vendor	0.04	0.02	0.98	0.31	0.01	0.01	0.28	0.29	0.01	0.08	0.09	—	928	928	0.02	0.14	0.87	970
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12.8	12.8	< 0.005	< 0.005	0.02	12.9
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	154	154	< 0.005	0.02	0.14	161
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.33	0.27	2.12	2.97	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	86.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.33	0.27	2.12	2.97	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	86.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.62	0.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Architectural Coatings	—	25.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.2	17.2	< 0.005	< 0.005	—	17.2
Architectural Coatings	—	4.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.73	0.59	11.4	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,562	2,562	0.03	0.09	6.61	2,597
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.70	0.61	0.68	8.53	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,357	2,357	0.03	0.09	0.17	2,386
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.20	2.63	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	696	696	0.01	0.03	0.83	705
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.14	117
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.33	0.27	2.12	2.97	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.33	0.27	2.12	2.97	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.62	0.86	< 0.005	0.01	—	0.01	0.01	—	0.01	—	104	104	< 0.005	< 0.005	—	104
Architectural Coatings	—	5.76	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.11	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	17.2	17.2	< 0.005	< 0.005	—	17.2
Architectural Coatings	—	1.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.74	0.73	0.59	11.4	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,562	2,562	0.03	0.09	6.61	2,597
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.70	0.61	0.68	8.53	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,357	2,357	0.03	0.09	0.17	2,386
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.18	0.20	2.63	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	696	696	0.01	0.03	0.83	705
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	115	115	< 0.005	< 0.005	0.14	117
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	86.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	86.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.51	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.1	87.1	< 0.005	< 0.005	—	87.4
Architectural Coatings	—	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Architectural Coatings	—	3.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.61	0.50	10.6	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,519	2,519	0.03	0.09	5.87	2,553
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.67	0.58	0.59	8.04	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,318	2,318	0.03	0.09	0.15	2,346
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.15	2.07	0.00	0.00	0.62	0.62	0.00	0.14	0.14	—	574	574	0.01	0.02	0.62	582
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.38	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	95.0	95.0	< 0.005	< 0.005	0.10	96.3
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

3.18. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.32	0.26	2.09	2.95	< 0.005	0.03	—	0.03	0.03	—	0.03	—	356	356	0.01	< 0.005	—	357
Architectural Coatings	—	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.51	0.72	< 0.005	0.01	—	0.01	0.01	—	0.01	—	87.1	87.1	< 0.005	< 0.005	—	87.4
Architectural Coatings	—	4.83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.4	14.4	< 0.005	< 0.005	—	14.5
Architectural Coatings	—	0.88	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.70	0.61	0.50	10.6	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,519	2,519	0.03	0.09	5.87	2,553
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.67	0.58	0.59	8.04	0.00	0.00	2.57	2.57	0.00	0.60	0.60	—	2,318	2,318	0.03	0.09	0.15	2,346
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.15	2.07	0.00	0.00	0.62	0.62	0.00	0.14	0.14	—	574	574	0.01	0.02	0.62	582
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.38	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	95.0	95.0	< 0.005	< 0.005	0.10	96.3
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

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	7/1/2026	9/1/2026	5.00	45.0	—
Grading	Grading	9/2/2026	6/2/2027	5.00	196	—
Building Construction	Building Construction	6/3/2027	11/3/2028	5.00	372	—
Paving	Paving	11/4/2028	8/4/2029	5.00	195	—
Architectural Coating	Architectural Coating	8/5/2029	5/5/2030	5.00	195	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	16.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	3.00	8.00	376	0.38

Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	6.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	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	2.00	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	16.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	3.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	6.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	6.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	19.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	72.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	79.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	982	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	150	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	78.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	196	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	19.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	72.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	79.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	982	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	150	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	78.0	10.2	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	196	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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	3,196,766	1,065,589	2,100,000	700,000	124,407

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	113	0.00	—
Grading	—	—	3,920	0.00	—
Paving	0.00	0.00	0.00	0.00	55.4

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
City Park	0.00	0%
Single Family Housing	7.81	0%
Apartments Low Rise	—	0%
Parking Lot	47.6	100%
Government (Civic Center)	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	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005
2028	0.00	532	0.03	< 0.005
2029	0.00	532	0.03	< 0.005
2030	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	28.1	annual days of extreme heat

Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6

Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—

Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	Construction schedule based on data provided by the Project applicant
Construction: Off-Road Equipment	All equipment assumed to operate 8 hours per day. Crawler tractors used in lieu of tractors/loaders/backhoes during site preparation and grading to account for fugitive dust.
Construction: Trips and VMT	Vendor trips assigned to site preparation, grading, building construction, and paving phases based on the duration of each phase.
Construction: Architectural Coatings	Rule 1113

15218 Mesa Verde Ph2 Construction Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph2 Construction
Construction Start Date	5/6/2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.99697093575283, -117.07456951477454
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	700	1000sqft	16.1	700,000	0.00	—	—	—

Unrefrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	0.00	—	—	—
Strip Mall	50.0	1000sqft	1.15	50,000	0.00	—	—	—
Single Family Housing	468	Dwelling Unit	152	912,600	5,481,617	—	1,512	—
Apartments Low Rise	81.0	Dwelling Unit	5.06	85,860	0.00	—	262	—
City Park	16.2	Acre	16.2	0.00	0.00	0.00	—	—
Parking Lot	50.6	Acre	50.6	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.5	74.8	99.9	120	0.36	4.24	12.4	13.6	3.90	2.98	6.48	—	39,469	39,469	1.54	0.83	30.6	39,674
Mit.	4.06	18.1	20.5	193	0.36	0.74	12.4	12.7	0.74	2.98	3.32	—	39,469	39,469	1.54	0.83	30.6	39,674
% Reduced	75%	76%	79%	-60%	—	83%	—	7%	81%	—	49%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.5	74.8	100.0	120	0.36	4.24	12.4	13.6	3.90	2.98	6.48	—	39,402	39,402	1.54	1.17	0.79	39,601
Mit.	3.92	18.1	20.6	192	0.36	0.74	12.4	12.7	0.74	2.98	3.32	—	39,402	39,402	1.54	1.17	0.79	39,601
% Reduced	76%	76%	79%	-61%	—	83%	—	7%	81%	—	49%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.57	35.7	39.6	50.3	0.14	1.68	8.75	9.23	1.55	2.10	2.67	—	15,703	15,703	0.61	0.84	8.71	15,958
Mit.	2.80	8.62	10.4	76.6	0.14	0.29	8.75	8.94	0.29	2.10	2.26	—	15,703	15,703	0.61	0.84	8.71	15,958
% Reduced	57%	76%	74%	-52%	—	83%	—	3%	81%	—	16%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.20	6.51	7.23	9.19	0.03	0.31	1.60	1.68	0.28	0.38	0.49	—	2,600	2,600	0.10	0.14	1.44	2,642
Mit.	0.51	1.57	1.89	14.0	0.03	0.05	1.60	1.63	0.05	0.38	0.41	—	2,600	2,600	0.10	0.14	1.44	2,642
% Reduced	57%	76%	74%	-52%	—	83%	—	3%	81%	—	16%	—	—	—	—	—	—	—

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	16.5	13.8	99.9	120	0.36	4.24	9.40	13.6	3.90	2.58	6.48	—	39,469	39,469	1.54	0.54	4.67	39,674
2031	5.57	4.69	25.8	74.4	0.10	0.65	12.4	13.1	0.56	2.98	3.54	—	21,028	21,028	0.41	0.83	30.6	21,316
2032	5.36	4.49	24.7	71.7	0.10	0.60	12.4	13.0	0.52	2.98	3.50	—	20,714	20,714	0.41	0.83	26.8	20,998
2033	4.88	4.36	24.1	69.3	0.10	0.51	12.4	12.9	0.48	2.98	3.45	—	20,441	20,441	0.41	0.79	23.3	20,709

2034	0.57	74.8	1.29	8.43	< 0.005	0.01	2.17	2.18	0.01	0.51	0.52	—	2,196	2,196	0.03	0.01	2.98	2,203
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	16.5	13.8	100.0	120	0.36	4.24	9.40	13.6	3.90	2.58	6.48	—	39,402	39,402	1.54	0.54	0.12	39,601
2031	16.2	13.6	94.2	119	0.36	4.12	12.4	13.5	3.78	2.98	6.36	—	39,346	39,346	1.54	1.17	0.79	39,543
2032	5.26	4.39	25.3	62.0	0.10	0.60	12.4	13.0	0.52	2.98	3.50	—	19,896	19,896	0.43	0.83	0.69	20,154
2033	4.78	74.8	24.3	60.3	0.10	0.51	12.4	12.9	0.48	2.98	3.45	—	19,634	19,634	0.43	0.79	0.60	19,880
2034	0.55	74.8	1.36	6.73	< 0.005	0.01	2.17	2.18	0.01	0.51	0.52	—	2,036	2,036	0.03	0.01	0.08	2,040
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	6.57	5.51	39.6	47.7	0.14	1.68	3.66	5.34	1.55	0.99	2.54	—	15,675	15,675	0.61	0.22	0.82	15,755
2031	4.56	3.81	23.2	50.3	0.09	0.68	8.55	9.23	0.60	2.07	2.67	—	15,703	15,703	0.37	0.79	8.71	15,958
2032	3.77	3.15	18.1	45.6	0.07	0.43	8.75	9.19	0.37	2.10	2.47	—	14,334	14,334	0.31	0.84	8.28	14,599
2033	1.51	3.28	9.13	19.8	0.03	0.21	3.25	3.46	0.20	0.79	0.98	—	6,110	6,110	0.14	0.28	2.84	6,201
2034	0.26	35.7	0.65	3.35	< 0.005	< 0.005	1.02	1.02	< 0.005	0.24	0.24	—	983	983	0.01	0.01	0.62	986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.20	1.01	7.23	8.71	0.03	0.31	0.67	0.98	0.28	0.18	0.46	—	2,595	2,595	0.10	0.04	0.14	2,608
2031	0.83	0.69	4.23	9.19	0.02	0.12	1.56	1.68	0.11	0.38	0.49	—	2,600	2,600	0.06	0.13	1.44	2,642
2032	0.69	0.57	3.31	8.32	0.01	0.08	1.60	1.68	0.07	0.38	0.45	—	2,373	2,373	0.05	0.14	1.37	2,417
2033	0.28	0.60	1.67	3.61	0.01	0.04	0.59	0.63	0.04	0.14	0.18	—	1,012	1,012	0.02	0.05	0.47	1,027
2034	0.05	6.51	0.12	0.61	< 0.005	< 0.005	0.19	0.19	< 0.005	0.04	0.04	—	163	163	< 0.005	< 0.005	0.10	163

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	3.91	3.83	20.5	193	0.36	0.74	9.40	10.1	0.74	2.58	3.32	—	39,469	39,469	1.54	0.54	4.67	39,674
2031	4.06	3.50	13.3	79.3	0.10	0.27	12.4	12.7	0.22	2.98	3.20	—	21,028	21,028	0.41	0.83	30.6	21,316
2032	3.91	3.34	12.7	76.6	0.10	0.26	12.4	12.7	0.21	2.98	3.19	—	20,714	20,714	0.41	0.83	26.8	20,998
2033	3.47	3.25	12.5	74.3	0.10	0.22	12.4	12.6	0.21	2.98	3.19	—	20,441	20,441	0.41	0.79	23.3	20,709
2034	0.57	18.1	1.29	8.43	< 0.005	0.01	2.17	2.18	0.01	0.51	0.52	—	2,196	2,196	0.03	0.01	2.98	2,203
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	3.90	3.81	20.6	192	0.36	0.74	9.40	10.1	0.74	2.58	3.32	—	39,402	39,402	1.54	0.54	0.12	39,601
2031	3.92	3.80	20.5	192	0.36	0.74	12.4	12.7	0.73	2.98	3.31	—	39,346	39,346	1.54	1.17	0.79	39,543
2032	3.80	3.24	13.3	67.0	0.10	0.26	12.4	12.7	0.21	2.98	3.19	—	19,896	19,896	0.43	0.83	0.69	20,154
2033	3.37	18.1	12.8	65.3	0.10	0.22	12.4	12.6	0.21	2.98	3.19	—	19,634	19,634	0.43	0.79	0.60	19,880
2034	0.55	18.0	1.36	6.73	< 0.005	0.01	2.17	2.18	0.01	0.51	0.52	—	2,036	2,036	0.03	0.01	0.08	2,040
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.55	1.52	8.19	76.6	0.14	0.29	3.66	3.95	0.29	0.99	1.29	—	15,675	15,675	0.61	0.22	0.82	15,755
2031	2.80	2.42	10.4	58.1	0.09	0.22	8.55	8.77	0.19	2.07	2.26	—	15,703	15,703	0.37	0.79	8.71	15,958
2032	2.73	2.33	9.55	49.2	0.07	0.19	8.75	8.94	0.15	2.10	2.25	—	14,334	14,334	0.31	0.84	8.28	14,599
2033	1.01	1.67	4.71	21.3	0.03	0.09	3.25	3.34	0.09	0.79	0.87	—	6,110	6,110	0.14	0.28	2.84	6,201
2034	0.26	8.62	0.65	3.35	< 0.005	< 0.005	1.02	1.02	< 0.005	0.24	0.24	—	983	983	0.01	0.01	0.62	986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.28	0.28	1.50	14.0	0.03	0.05	0.67	0.72	0.05	0.18	0.23	—	2,595	2,595	0.10	0.04	0.14	2,608
2031	0.51	0.44	1.89	10.6	0.02	0.04	1.56	1.60	0.03	0.38	0.41	—	2,600	2,600	0.06	0.13	1.44	2,642
2032	0.50	0.42	1.74	8.97	0.01	0.03	1.60	1.63	0.03	0.38	0.41	—	2,373	2,373	0.05	0.14	1.37	2,417
2033	0.19	0.31	0.86	3.89	0.01	0.02	0.59	0.61	0.02	0.14	0.16	—	1,012	1,012	0.02	0.05	0.47	1,027
2034	0.05	1.57	0.12	0.61	< 0.005	< 0.005	0.19	0.19	< 0.005	0.04	0.04	—	163	163	< 0.005	< 0.005	0.10	163

3. Construction Emissions Details

3.1. Site Preparation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.23	2.71	17.1	23.7	0.07	0.80	—	0.80	0.73	—	0.73	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	1.60	2.20	0.01	0.07	—	0.07	0.07	—	0.07	—	660	660	0.03	0.01	—	662
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.29	0.40	< 0.005	0.01	—	0.01	0.01	—	0.01	—	109	109	< 0.005	< 0.005	—	110

Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	1.21	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	289	289	< 0.005	0.01	0.67	293
Vendor	0.01	0.01	0.30	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	300	300	0.01	0.05	0.59	315
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.03	25.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.0	28.0	< 0.005	< 0.005	0.02	29.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	< 0.005	4.20
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.63	4.63	< 0.005	< 0.005	< 0.005	4.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (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	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.32	3.58	0.01	0.01	—	0.01	0.01	—	0.01	—	660	660	0.03	0.01	—	662
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.65	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	109	109	< 0.005	< 0.005	—	110
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	1.21	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	289	289	< 0.005	0.01	0.67	293
Vendor	0.01	0.01	0.30	0.10	< 0.005	< 0.005	0.09	0.10	< 0.005	0.03	0.03	—	300	300	0.01	0.05	0.59	315
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.09	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.0	25.0	< 0.005	< 0.005	0.03	25.4
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.0	28.0	< 0.005	< 0.005	0.02	29.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.15	4.15	< 0.005	< 0.005	< 0.005	4.20
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.63	4.63	< 0.005	< 0.005	< 0.005	4.85
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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	16.2	13.6	98.4	116	0.34	4.22	—	4.22	3.88	—	3.88	—	37,266	37,266	1.51	0.30	—	37,394

Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	16.2	13.6	98.4	116	0.34	4.22	—	4.22	3.88	—	3.88	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	6.15	5.17	37.4	44.2	0.13	1.60	—	1.60	1.47	—	1.47	—	14,148	14,148	0.57	0.11	—	14,196
Dust From Material Movement	—	—	—	—	—	—	3.07	3.07	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	0.94	6.82	8.06	0.02	0.29	—	0.29	0.27	—	0.27	—	2,342	2,342	0.10	0.02	—	2,350
Dust From Material Movement	—	—	—	—	—	—	0.56	0.56	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.17	3.63	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	866	866	0.01	0.03	2.02	878
Vendor	0.07	0.03	1.33	0.44	0.01	0.02	0.42	0.44	0.02	0.12	0.14	—	1,338	1,338	0.02	0.21	2.65	1,402
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.20	0.20	2.76	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	797	797	0.01	0.03	0.05	807
Vendor	0.06	0.03	1.40	0.45	0.01	0.02	0.42	0.44	0.02	0.12	0.14	—	1,339	1,339	0.02	0.21	0.07	1,401
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.10	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	306	306	< 0.005	0.01	0.33	310
Vendor	0.02	0.01	0.53	0.17	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	508	508	0.01	0.08	0.43	532
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	0.05	51.4
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	84.1	84.1	< 0.005	0.01	0.07	88.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2030) - Mitigated

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

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

Off-Road Equipment	3.60	3.59	19.0	189	0.34	0.72	—	0.72	0.72	—	0.72	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.60	3.59	19.0	189	0.34	0.72	—	0.72	0.72	—	0.72	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.37	1.36	7.23	71.6	0.13	0.27	—	0.27	0.27	—	0.27	—	14,148	14,148	0.57	0.11	—	14,196
Dust From Material Movement	—	—	—	—	—	—	3.07	3.07	—	0.86	0.86	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	1.32	13.1	0.02	0.05	—	0.05	0.05	—	0.05	—	2,342	2,342	0.10	0.02	—	2,350
Dust From Material Movement	—	—	—	—	—	—	0.56	0.56	—	0.16	0.16	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.17	3.63	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	866	866	0.01	0.03	2.02	878
Vendor	0.07	0.03	1.33	0.44	0.01	0.02	0.42	0.44	0.02	0.12	0.14	—	1,338	1,338	0.02	0.21	2.65	1,402
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.20	0.20	2.76	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	797	797	0.01	0.03	0.05	807
Vendor	0.06	0.03	1.40	0.45	0.01	0.02	0.42	0.44	0.02	0.12	0.14	—	1,339	1,339	0.02	0.21	0.07	1,401
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.08	1.10	0.00	0.00	0.33	0.33	0.00	0.08	0.08	—	306	306	< 0.005	0.01	0.33	310
Vendor	0.02	0.01	0.53	0.17	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	508	508	0.01	0.08	0.43	532
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	50.7	50.7	< 0.005	< 0.005	0.05	51.4
Vendor	< 0.005	< 0.005	0.10	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	84.1	84.1	< 0.005	0.01	0.07	88.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2031) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	15.9	13.4	92.7	115	0.34	4.10	—	4.10	3.77	—	3.77	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.00	0.84	5.81	7.23	0.02	0.26	—	0.26	0.24	—	0.24	—	2,334	2,334	0.09	0.02	—	2,342
Dust From Material Movement	—	—	—	—	—	—	0.51	0.51	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.06	1.32	< 0.005	0.05	—	0.05	0.04	—	0.04	—	386	386	0.02	< 0.005	—	388
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	0.17	2.57	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	784	784	0.01	0.03	0.05	794
Vendor	0.05	0.03	1.33	0.44	0.01	0.02	0.42	0.44	0.01	0.12	0.13	—	1,296	1,296	0.02	0.19	0.06	1,355
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.7	49.7	< 0.005	< 0.005	0.05	50.4
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.1	81.1	< 0.005	0.01	0.06	84.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.34
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2031) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.60	3.58	19.0	189	0.34	0.72	—	0.72	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394

Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	0.23	0.22	1.19	11.8	0.02	0.04	—	0.04	0.04	—	0.04	—	2,334	2,334	0.09	0.02	—	2,342
Dust From Material Movement	—	—	—	—	—	—	0.51	0.51	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	2.16	< 0.005	0.01	—	0.01	0.01	—	0.01	—	386	386	0.02	< 0.005	—	388
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	0.17	2.57	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	784	784	0.01	0.03	0.05	794
Vendor	0.05	0.03	1.33	0.44	0.01	0.02	0.42	0.44	0.01	0.12	0.13	—	1,296	1,296	0.02	0.19	0.06	1,355
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	49.7	49.7	< 0.005	< 0.005	0.05	50.4
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	81.1	81.1	< 0.005	0.01	0.06	84.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.34
Vendor	< 0.005	< 0.005	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.0
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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	2.55	2.13	19.0	30.8	0.06	0.57	—	0.57	0.52	—	0.52	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.55	2.13	19.0	30.8	0.06	0.57	—	0.57	0.52	—	0.52	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.66	1.39	12.4	20.1	0.04	0.37	—	0.37	0.34	—	0.34	—	3,715	3,715	0.15	0.03	—	3,728
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.30	0.25	2.26	3.67	0.01	0.07	—	0.07	0.06	—	0.06	—	615	615	0.02	< 0.005	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.82	2.45	2.12	42.0	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,490	10,490	0.09	0.05	22.0	10,531
Vendor	0.21	0.11	4.76	1.61	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,836	4,836	0.09	0.73	8.59	5,064
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.69	2.30	2.13	31.7	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,655	9,655	0.11	0.39	0.57	9,775
Vendor	0.20	0.11	4.98	1.65	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,840	4,840	0.09	0.73	0.22	5,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.75	1.50	1.62	21.8	0.00	0.00	6.96	6.96	0.00	1.63	1.63	—	6,370	6,370	0.07	0.26	6.19	6,455
Vendor	0.13	0.07	3.26	1.06	0.03	0.05	1.01	1.06	0.03	0.28	0.31	—	3,153	3,153	0.06	0.47	2.41	3,298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.27	0.30	3.97	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,055	1,055	0.01	0.04	1.02	1,069
Vendor	0.02	0.01	0.60	0.19	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.06	—	522	522	0.01	0.08	0.40	546
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	1.03	0.94	6.42	35.7	0.06	0.18	—	0.18	0.18	—	0.18	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	0.94	6.42	35.7	0.06	0.18	—	0.18	0.18	—	0.18	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.61	4.19	23.3	0.04	0.12	—	0.12	0.12	—	0.12	—	3,715	3,715	0.15	0.03	—	3,728
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	0.76	4.24	0.01	0.02	—	0.02	0.02	—	0.02	—	615	615	0.02	< 0.005	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.82	2.45	2.12	42.0	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,490	10,490	0.09	0.05	22.0	10,531
Vendor	0.21	0.11	4.76	1.61	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,836	4,836	0.09	0.73	8.59	5,064
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.69	2.30	2.13	31.7	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,655	9,655	0.11	0.39	0.57	9,775
Vendor	0.20	0.11	4.98	1.65	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,840	4,840	0.09	0.73	0.22	5,060
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.75	1.50	1.62	21.8	0.00	0.00	6.96	6.96	0.00	1.63	1.63	—	6,370	6,370	0.07	0.26	6.19	6,455
Vendor	0.13	0.07	3.26	1.06	0.03	0.05	1.01	1.06	0.03	0.28	0.31	—	3,153	3,153	0.06	0.47	2.41	3,298
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.27	0.30	3.97	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,055	1,055	0.01	0.04	1.02	1,069
Vendor	0.02	0.01	0.60	0.19	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.06	—	522	522	0.01	0.08	0.40	546
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	2.48	2.08	18.4	30.7	0.06	0.52	—	0.52	0.48	—	0.48	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.48	2.08	18.4	30.7	0.06	0.52	—	0.52	0.48	—	0.48	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.78	1.49	13.2	22.0	0.04	0.37	—	0.37	0.34	—	0.34	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.40	4.01	0.01	0.07	—	0.07	0.06	—	0.06	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.30	1.76	39.4	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,337	10,337	0.09	0.05	19.4	10,375
Vendor	0.21	0.11	4.57	1.61	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,676	4,676	0.09	0.73	7.36	4,902
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.21	2.12	29.6	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,514	9,514	0.11	0.05	0.50	9,534

Vendor	0.20	0.11	4.83	1.65	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,680	4,680	0.09	0.73	0.19	4,900
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.85	1.58	1.52	22.5	0.00	0.00	7.65	7.65	0.00	1.79	1.79	—	6,900	6,900	0.08	0.28	6.00	6,992
Vendor	0.15	0.08	3.45	1.17	0.03	0.06	1.11	1.16	0.03	0.31	0.34	—	3,350	3,350	0.06	0.52	2.28	3,510
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.29	0.28	4.10	0.00	0.00	1.40	1.40	0.00	0.33	0.33	—	1,142	1,142	0.01	0.05	0.99	1,158
Vendor	0.03	0.01	0.63	0.21	0.01	0.01	0.20	0.21	0.01	0.06	0.06	—	555	555	0.01	0.09	0.38	581
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2032) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.93	6.40	35.7	0.06	0.18	—	0.18	0.17	—	0.17	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.93	6.40	35.7	0.06	0.18	—	0.18	0.17	—	0.17	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.73	0.67	4.58	25.5	0.04	0.13	—	0.13	0.12	—	0.12	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.12	0.84	4.66	0.01	0.02	—	0.02	0.02	—	0.02	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.67	2.30	1.76	39.4	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,337	10,337	0.09	0.05	19.4	10,375
Vendor	0.21	0.11	4.57	1.61	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,676	4,676	0.09	0.73	7.36	4,902
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.21	2.12	29.6	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,514	9,514	0.11	0.05	0.50	9,534
Vendor	0.20	0.11	4.83	1.65	0.04	0.08	1.57	1.65	0.04	0.43	0.47	—	4,680	4,680	0.09	0.73	0.19	4,900
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.85	1.58	1.52	22.5	0.00	0.00	7.65	7.65	0.00	1.79	1.79	—	6,900	6,900	0.08	0.28	6.00	6,992
Vendor	0.15	0.08	3.45	1.17	0.03	0.06	1.11	1.16	0.03	0.31	0.34	—	3,350	3,350	0.06	0.52	2.28	3,510
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.29	0.28	4.10	0.00	0.00	1.40	1.40	0.00	0.33	0.33	—	1,142	1,142	0.01	0.05	0.99	1,158

Vendor	0.03	0.01	0.63	0.21	0.01	0.01	0.20	0.21	0.01	0.06	0.06	—	555	555	0.01	0.09	0.38	581
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2033) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	17.9	30.7	0.06	0.47	—	0.47	0.44	—	0.44	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.43	2.04	17.9	30.7	0.06	0.47	—	0.47	0.44	—	0.44	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	4.28	7.32	0.01	0.11	—	0.11	0.10	—	0.10	—	1,361	1,361	0.06	0.01	—	1,366
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.78	1.34	< 0.005	0.02	—	0.02	0.02	—	0.02	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.24	2.21	1.74	37.1	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,214	10,214	0.09	0.05	17.1	10,250
Vendor	0.21	0.11	4.43	1.57	0.04	0.04	1.57	1.61	0.04	0.43	0.47	—	4,526	4,526	0.09	0.69	6.24	4,739
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.15	2.12	1.76	28.0	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,402	9,402	0.11	0.05	0.44	9,422
Vendor	0.20	0.11	4.65	1.61	0.04	0.04	1.57	1.61	0.04	0.43	0.47	—	4,530	4,530	0.09	0.69	0.16	4,737
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.50	0.42	7.01	0.00	0.00	2.55	2.55	0.00	0.60	0.60	—	2,273	2,273	0.03	0.01	1.76	2,279
Vendor	0.05	0.03	1.11	0.38	0.01	0.01	0.37	0.38	0.01	0.10	0.11	—	1,081	1,081	0.02	0.16	0.64	1,131
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.08	1.28	0.00	0.00	0.47	0.47	0.00	0.11	0.11	—	376	376	< 0.005	< 0.005	0.29	377
Vendor	0.01	< 0.005	0.20	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	1.02	0.93	6.38	35.7	0.06	0.18	—	0.18	0.17	—	0.17	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	0.93	6.38	35.7	0.06	0.18	—	0.18	0.17	—	0.17	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	1.52	8.52	0.01	0.04	—	0.04	0.04	—	0.04	—	1,361	1,361	0.06	0.01	—	1,366
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.28	1.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	225	225	0.01	< 0.005	—	226
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.24	2.21	1.74	37.1	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	10,214	10,214	0.09	0.05	17.1	10,250
Vendor	0.21	0.11	4.43	1.57	0.04	0.04	1.57	1.61	0.04	0.43	0.47	—	4,526	4,526	0.09	0.69	6.24	4,739
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.15	2.12	1.76	28.0	0.00	0.00	10.9	10.9	0.00	2.55	2.55	—	9,402	9,402	0.11	0.05	0.44	9,422

Vendor	0.20	0.11	4.65	1.61	0.04	0.04	1.57	1.61	0.04	0.43	0.47	—	4,530	4,530	0.09	0.69	0.16	4,737
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.51	0.50	0.42	7.01	0.00	0.00	2.55	2.55	0.00	0.60	0.60	—	2,273	2,273	0.03	0.01	1.76	2,279
Vendor	0.05	0.03	1.11	0.38	0.01	0.01	0.37	0.38	0.01	0.10	0.11	—	1,081	1,081	0.02	0.16	0.64	1,131
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.09	0.08	1.28	0.00	0.00	0.47	0.47	0.00	0.11	0.11	—	376	376	< 0.005	< 0.005	0.29	377
Vendor	0.01	< 0.005	0.20	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	179	179	< 0.005	0.03	0.11	187
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.70	0.59	5.91	9.84	0.01	0.18	—	0.18	0.17	—	0.17	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.70	0.59	5.91	9.84	0.01	0.18	—	0.18	0.17	—	0.17	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.69	4.47	0.01	0.08	—	0.08	0.08	—	0.08	—	687	687	0.03	0.01	—	689
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.49	0.82	< 0.005	0.02	—	0.02	0.01	—	0.01	—	114	114	< 0.005	< 0.005	—	114
Paving	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.67	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	184	184	< 0.005	< 0.005	0.31	185
Vendor	0.06	0.03	1.26	0.45	0.01	0.01	0.44	0.46	0.01	0.12	0.13	—	1,286	1,286	0.02	0.20	1.77	1,347
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.51	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.01	170
Vendor	0.06	0.03	1.32	0.46	0.01	0.01	0.44	0.46	0.01	0.12	0.13	—	1,287	1,287	0.02	0.20	0.05	1,346
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	78.2	78.2	< 0.005	< 0.005	0.06	78.4
Vendor	0.03	0.01	0.60	0.21	0.01	0.01	0.20	0.20	0.01	0.06	0.06	—	585	585	0.01	0.09	0.35	612

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.0
Vendor	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	96.9	96.9	< 0.005	0.01	0.06	101
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.31	2.24	10.5	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.31	2.24	10.5	0.01	0.07	—	0.07	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.80	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.14	1.02	4.79	0.01	0.03	—	0.03	0.03	—	0.03	—	687	687	0.03	0.01	—	689
Paving	—	0.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.19	0.87	< 0.005	0.01	—	0.01	0.01	—	0.01	—	114	114	< 0.005	< 0.005	—	114
Paving	—	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.67	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	184	184	< 0.005	< 0.005	0.31	185
Vendor	0.06	0.03	1.26	0.45	0.01	0.01	0.44	0.46	0.01	0.12	0.13	—	1,286	1,286	0.02	0.20	1.77	1,347
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.51	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.01	170
Vendor	0.06	0.03	1.32	0.46	0.01	0.01	0.44	0.46	0.01	0.12	0.13	—	1,287	1,287	0.02	0.20	0.05	1,346
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.24	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	78.2	78.2	< 0.005	< 0.005	0.06	78.4
Vendor	0.03	0.01	0.60	0.21	0.01	0.01	0.20	0.20	0.01	0.06	0.06	—	585	585	0.01	0.09	0.35	612
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.9	12.9	< 0.005	< 0.005	0.01	13.0
Vendor	< 0.005	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	96.9	96.9	< 0.005	0.01	0.06	101
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.15	0.12	1.02	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	74.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.83	3.83	< 0.005	< 0.005	—	3.85
Architectural Coatings	—	1.60	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.63	0.63	< 0.005	< 0.005	—	0.64
Architectural Coatings	—	0.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.35	5.60	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	1,880	1,880	0.02	0.01	0.09	1,884
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.0	41.0	< 0.005	< 0.005	0.03	41.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.79	6.79	< 0.005	< 0.005	0.01	6.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.15	0.12	1.02	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.83	3.83	< 0.005	< 0.005	—	3.85
Architectural Coatings	—	0.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.63	0.63	< 0.005	< 0.005	—	0.64
Architectural Coatings	—	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	0.43	0.42	0.35	5.60	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	1,880	1,880	0.02	0.01	0.09	1,884

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	41.0	41.0	< 0.005	< 0.005	0.03	41.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.79	6.79	< 0.005	< 0.005	0.01	6.80
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.15	0.12	1.01	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	74.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.15	0.12	1.01	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179

Architect Coatings	—	74.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.07	0.06	0.48	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	85.0	85.0	< 0.005	< 0.005	—	85.3
Architectural Coatings	—	35.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.1	14.1	< 0.005	< 0.005	—	14.1
Architectural Coatings	—	6.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.28	6.97	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	2,018	2,018	0.02	0.01	2.98	2,025
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.40	0.35	5.27	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	1,858	1,858	0.02	0.01	0.08	1,862
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.17	2.65	0.00	0.00	1.02	1.02	0.00	0.24	0.24	—	898	898	0.01	0.01	0.62	901
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.48	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	149	149	< 0.005	< 0.005	0.10	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (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	0.15	0.12	1.01	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	1.01	1.47	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179

Architectural	—	17.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.48	0.70	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	85.0	85.0	< 0.005	< 0.005	—	85.3
Architectural Coatings	—	8.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	14.1	14.1	< 0.005	< 0.005	—	14.1
Architectural Coatings	—	1.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.42	0.28	6.97	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	2,018	2,018	0.02	0.01	2.98	2,025
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.40	0.35	5.27	0.00	0.00	2.17	2.17	0.00	0.51	0.51	—	1,858	1,858	0.02	0.01	0.08	1,862
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.19	0.17	2.65	0.00	0.00	1.02	1.02	0.00	0.24	0.24	—	898	898	0.01	0.01	0.62	901
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.48	0.00	0.00	0.19	0.19	0.00	0.04	0.04	—	149	149	< 0.005	< 0.005	0.10	149
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	5/6/2030	6/20/2030	5.00	34.0	—
Grading	Grading	6/21/2030	2/1/2031	5.00	161	—
Building Construction	Building Construction	2/2/2031	5/2/2033	5.00	586	—
Paving	Paving	5/3/2033	12/20/2033	5.00	166	—
Architectural Coating	Architectural Coating	12/21/2033	9/1/2034	5.00	183	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	7.00	8.00	84.0	0.37

Building Construction	Welders	Diesel	Average	2.00	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	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	7.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	11.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	49.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	831	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	183	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	52.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	166	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	11.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	49.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	831	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	183	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	52.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	166	18.5	LDA,LDT1,LDT2

Architectural Coating	Vendor	0.00	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	2,021,882	673,961	2,175,000	725,000	132,196

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	85.0	0.00	—
Grading	—	—	2,898	0.00	—
Paving	0.00	0.00	0.00	0.00	55.7

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Strip Mall	0.00	0%
Single Family Housing	5.16	0%
Apartments Low Rise	—	0%
City Park	0.00	0%
Parking Lot	50.6	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2030	0.00	532	0.03	< 0.005
2031	0.00	532	0.03	< 0.005
2032	0.00	532	0.03	< 0.005
2033	0.00	532	0.03	< 0.005
2034	0.00	532	0.03	< 0.005

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00

Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—

Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0

Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—

Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule adjusted based on data from the Project team.
Construction: Off-Road Equipment	All equipment will operate 8 hours per day. Crawler tractors assumed in lieu of tractors/loaders/backhoes during site preparation and grading in order to account for fugitive dust.

Construction: Trips and VMT	Vendor trips assigned to site preparation, grading, building construction, and paving based on the duration of each phase.
Construction: Architectural Coatings	Rule 1113

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph3 Construction
Construction Start Date	5/1/2033
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.99706484769354, -117.07430025959425
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	700	1000sqft	16.1	700,000	0.00	—	—	—

Unrefrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	0.00	—	—	—
Single Family Housing	447	Dwelling Unit	145	871,650	5,235,647	—	1,444	—
Apartments Low Rise	81.0	Dwelling Unit	5.06	85,860	0.00	—	262	—
Strip Mall	250	1000sqft	5.74	250,000	0.00	—	—	—
City Park	8.90	Acre	8.90	0.00	0.00	0.00	—	—
Parking Lot	12.8	Acre	12.8	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.0	39.4	79.8	115	0.36	3.29	16.3	17.0	3.03	3.91	5.64	—	39,544	39,544	1.55	0.96	18.0	39,745
Mit.	4.81	11.5	20.6	192	0.36	0.72	16.3	16.6	0.72	3.91	4.27	—	39,544	39,544	1.55	0.96	18.0	39,745
% Reduced	68%	71%	74%	-68%	—	78%	—	2%	76%	—	24%	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15.4	39.3	84.4	115	0.36	3.60	16.3	17.0	3.31	3.91	5.92	—	39,540	39,540	1.55	0.96	0.47	39,738
Mit.	4.73	11.4	20.7	192	0.36	0.73	16.3	16.6	0.73	3.91	4.27	—	39,540	39,540	1.55	0.96	0.47	39,738
% Reduced	69%	71%	75%	-67%	—	80%	—	2%	78%	—	28%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.7	28.0	57.0	81.5	0.26	2.35	11.4	11.9	2.17	2.75	4.02	—	28,206	28,206	1.11	0.69	4.77	28,349
Mit.	3.29	8.06	14.8	137	0.26	0.52	11.4	11.7	0.52	2.75	3.00	—	28,206	28,206	1.11	0.69	4.77	28,349
% Reduced	69%	71%	74%	-68%	—	78%	—	2%	76%	—	25%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.95	5.10	10.4	14.9	0.05	0.43	2.08	2.18	0.40	0.50	0.73	—	4,670	4,670	0.18	0.11	0.79	4,693
Mit.	0.60	1.47	2.69	25.0	0.05	0.09	2.08	2.13	0.09	0.50	0.55	—	4,670	4,670	0.18	0.11	0.79	4,693
% Reduced	69%	71%	74%	-68%	—	78%	—	2%	76%	—	25%	—	—	—	—	—	—	—

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	3.15	2.65	15.3	24.8	0.07	0.69	1.18	1.87	0.63	0.20	0.83	—	7,928	7,928	0.30	0.15	1.25	7,980
2034	15.0	12.6	79.8	115	0.36	3.29	9.50	12.8	3.03	2.61	5.64	—	39,544	39,544	1.55	0.54	2.96	39,745
2035	5.54	4.92	27.8	75.3	0.11	0.60	13.1	13.7	0.55	3.13	3.68	—	22,102	22,102	0.46	0.73	18.0	22,348
2036	5.41	4.79	26.9	73.4	0.11	0.56	13.1	13.6	0.52	3.13	3.65	—	21,861	21,861	0.46	0.73	15.5	22,105

2037	6.87	39.4	37.5	95.4	0.15	0.74	16.3	17.0	0.68	3.91	4.59	—	28,018	28,018	0.61	0.96	16.7	28,336
2038	6.70	39.2	36.5	94.2	0.15	0.70	16.3	17.0	0.65	3.91	4.56	—	27,771	27,771	0.61	0.96	14.2	28,087
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	15.4	12.9	84.4	115	0.36	3.60	9.50	13.1	3.31	2.61	5.92	—	39,540	39,540	1.55	0.54	0.09	39,738
2034	15.0	12.6	79.9	114	0.36	3.29	9.50	12.8	3.03	2.61	5.64	—	39,480	39,480	1.55	0.54	0.08	39,679
2035	14.6	12.3	75.7	113	0.36	3.06	13.1	13.7	2.81	3.13	5.42	—	39,424	39,424	1.55	0.73	0.47	39,618
2036	5.34	4.72	27.2	65.0	0.11	0.56	13.1	13.6	0.52	3.13	3.65	—	21,030	21,030	0.48	0.73	0.40	21,260
2037	6.79	39.3	37.8	86.0	0.15	0.74	16.3	17.0	0.68	3.91	4.59	—	27,010	27,010	0.61	0.96	0.43	27,312
2038	6.64	39.2	37.2	84.8	0.15	0.70	16.3	17.0	0.65	3.91	4.56	—	26,772	26,772	0.61	0.96	0.37	27,074
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	2.95	2.48	15.5	22.4	0.07	0.67	1.54	2.21	0.62	0.38	0.99	—	7,504	7,504	0.29	0.12	0.37	7,546
2034	10.7	9.00	57.0	81.5	0.26	2.35	6.77	9.12	2.17	1.86	4.02	—	28,206	28,206	1.11	0.38	0.91	28,349
2035	4.98	4.33	25.9	53.9	0.11	0.72	8.78	9.51	0.66	2.14	2.80	—	17,427	17,427	0.47	0.50	4.73	17,591
2036	3.82	3.37	19.5	47.6	0.08	0.40	9.21	9.62	0.37	2.20	2.58	—	15,147	15,147	0.34	0.52	4.77	15,316
2037	4.38	17.8	23.7	55.7	0.10	0.47	10.5	11.0	0.43	2.52	2.95	—	17,562	17,562	0.39	0.61	4.70	17,757
2038	4.73	28.0	26.6	61.5	0.11	0.50	11.4	11.9	0.47	2.75	3.21	—	19,224	19,224	0.44	0.69	4.37	19,444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.54	0.45	2.82	4.08	0.01	0.12	0.28	0.40	0.11	0.07	0.18	—	1,242	1,242	0.05	0.02	0.06	1,249
2034	1.95	1.64	10.4	14.9	0.05	0.43	1.24	1.66	0.40	0.34	0.73	—	4,670	4,670	0.18	0.06	0.15	4,693
2035	0.91	0.79	4.72	9.85	0.02	0.13	1.60	1.73	0.12	0.39	0.51	—	2,885	2,885	0.08	0.08	0.78	2,912
2036	0.70	0.62	3.55	8.69	0.01	0.07	1.68	1.76	0.07	0.40	0.47	—	2,508	2,508	0.06	0.09	0.79	2,536
2037	0.80	3.25	4.32	10.2	0.02	0.09	1.91	2.00	0.08	0.46	0.54	—	2,908	2,908	0.06	0.10	0.78	2,940
2038	0.86	5.10	4.85	11.2	0.02	0.09	2.08	2.18	0.09	0.50	0.59	—	3,183	3,183	0.07	0.11	0.72	3,219

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	0.76	0.74	4.08	39.6	0.07	0.14	1.18	1.32	0.14	0.20	0.34	—	7,928	7,928	0.30	0.15	1.25	7,980
2034	3.83	3.78	20.6	192	0.36	0.72	9.50	10.2	0.72	2.61	3.33	—	39,544	39,544	1.55	0.54	2.96	39,745
2035	3.83	3.59	14.4	82.7	0.11	0.28	13.1	13.4	0.27	3.13	3.39	—	22,102	22,102	0.46	0.73	18.0	22,348
2036	3.77	3.50	14.2	81.1	0.11	0.27	13.1	13.4	0.26	3.13	3.39	—	21,861	21,861	0.46	0.73	15.5	22,105
2037	4.81	11.5	20.2	105	0.15	0.38	16.3	16.6	0.36	3.91	4.27	—	28,018	28,018	0.61	0.96	16.7	28,336
2038	4.68	11.3	19.6	103	0.15	0.37	16.3	16.6	0.36	3.91	4.27	—	27,771	27,771	0.61	0.96	14.2	28,087
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	3.83	3.78	20.7	192	0.36	0.73	9.50	10.2	0.73	2.61	3.33	—	39,540	39,540	1.55	0.54	0.09	39,738
2034	3.82	3.77	20.7	191	0.36	0.72	9.50	10.2	0.72	2.61	3.33	—	39,480	39,480	1.55	0.54	0.08	39,679
2035	3.81	3.77	20.6	191	0.36	0.72	13.1	13.4	0.72	3.13	3.39	—	39,424	39,424	1.55	0.73	0.47	39,618
2036	3.70	3.43	14.5	72.7	0.11	0.27	13.1	13.4	0.26	3.13	3.39	—	21,030	21,030	0.48	0.73	0.40	21,260
2037	4.73	11.4	20.5	95.1	0.15	0.38	16.3	16.6	0.36	3.91	4.27	—	27,010	27,010	0.61	0.96	0.43	27,312
2038	4.62	11.3	20.4	94.0	0.15	0.37	16.3	16.6	0.36	3.91	4.27	—	26,772	26,772	0.61	0.96	0.37	27,074
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2033	0.72	0.71	3.92	36.8	0.07	0.14	1.54	1.67	0.14	0.38	0.51	—	7,504	7,504	0.29	0.12	0.37	7,546
2034	2.73	2.69	14.8	137	0.26	0.52	6.77	7.29	0.52	1.86	2.38	—	28,206	28,206	1.11	0.38	0.91	28,349
2035	2.68	2.52	11.3	67.8	0.11	0.25	8.78	9.03	0.25	2.14	2.38	—	17,427	17,427	0.47	0.50	4.73	17,591
2036	2.64	2.45	10.4	53.1	0.08	0.20	9.21	9.41	0.19	2.20	2.39	—	15,147	15,147	0.34	0.52	4.77	15,316
2037	3.05	5.76	12.8	61.9	0.10	0.24	10.5	10.7	0.23	2.52	2.75	—	17,562	17,562	0.39	0.61	4.70	17,757
2038	3.29	8.06	14.5	68.1	0.11	0.26	11.4	11.7	0.25	2.75	3.00	—	19,224	19,224	0.44	0.69	4.37	19,444
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2033	0.13	0.13	0.72	6.71	0.01	0.02	0.28	0.31	0.02	0.07	0.09	—	1,242	1,242	0.05	0.02	0.06	1,249
2034	0.50	0.49	2.69	25.0	0.05	0.09	1.24	1.33	0.09	0.34	0.43	—	4,670	4,670	0.18	0.06	0.15	4,693
2035	0.49	0.46	2.07	12.4	0.02	0.05	1.60	1.65	0.04	0.39	0.44	—	2,885	2,885	0.08	0.08	0.78	2,912
2036	0.48	0.45	1.89	9.70	0.01	0.04	1.68	1.72	0.03	0.40	0.44	—	2,508	2,508	0.06	0.09	0.79	2,536
2037	0.56	1.05	2.34	11.3	0.02	0.04	1.91	1.96	0.04	0.46	0.50	—	2,908	2,908	0.06	0.10	0.78	2,940
2038	0.60	1.47	2.65	12.4	0.02	0.05	2.08	2.13	0.05	0.50	0.55	—	3,183	3,183	0.07	0.11	0.72	3,219

3. Construction Emissions Details

3.1. 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	3.06	2.57	14.7	23.6	0.07	0.68	—	0.68	0.63	—	0.63	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.06	2.57	14.7	23.6	0.07	0.68	—	0.68	0.63	—	0.63	—	7,083	7,083	0.29	0.06	—	7,107

Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.11	0.93	5.33	8.52	0.02	0.25	—	0.25	0.23	—	0.23	—	2,561	2,561	0.10	0.02	—	2,570
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.17	0.97	1.55	< 0.005	0.05	—	0.05	0.04	—	0.04	—	424	424	0.02	< 0.005	—	426
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.00	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	277	277	< 0.005	< 0.005	0.46	278
Vendor	0.03	0.01	0.56	0.20	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	569	569	0.01	0.09	0.78	596
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.06	0.06	0.05	0.76	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	255	255	< 0.005	< 0.005	0.01	255
Vendor	0.02	0.01	0.58	0.20	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	569	569	0.01	0.09	0.02	595
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	93.2	93.2	< 0.005	< 0.005	0.07	93.5
Vendor	0.01	< 0.005	0.21	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	206	206	< 0.005	0.03	0.12	215
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.01	15.5
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.1	34.1	< 0.005	0.01	0.02	35.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2033) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	0.24	1.26	13.9	0.02	0.05	—	0.05	0.05	—	0.05	—	2,561	2,561	0.10	0.02	—	2,570
Dust From Material Movement	—	—	—	—	—	—	0.25	0.25	—	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.23	2.54	< 0.005	0.01	—	0.01	0.01	—	0.01	—	424	424	0.02	< 0.005	—	426
Dust From Material Movement	—	—	—	—	—	—	0.05	0.05	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	1.00	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	277	277	< 0.005	< 0.005	0.46	278
Vendor	0.03	0.01	0.56	0.20	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	569	569	0.01	0.09	0.78	596
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.76	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	255	255	< 0.005	< 0.005	0.01	255
Vendor	0.02	0.01	0.58	0.20	0.01	0.01	0.20	0.20	0.01	0.05	0.06	—	569	569	0.01	0.09	0.02	595
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	93.2	93.2	< 0.005	< 0.005	0.07	93.5
Vendor	0.01	< 0.005	0.21	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	206	206	< 0.005	0.03	0.12	215
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	0.01	15.5
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.1	34.1	< 0.005	0.01	0.02	35.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (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	15.2	12.7	82.7	112	0.34	3.59	—	3.59	3.30	—	3.30	—	37,266	37,266	1.51	0.30	—	37,394

Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.78	1.50	9.71	13.1	0.04	0.42	—	0.42	0.39	—	0.39	—	4,376	4,376	0.18	0.04	—	4,391
Dust From Material Movement	—	—	—	—	—	—	0.95	0.95	—	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	0.32	0.27	1.77	2.40	0.01	0.08	—	0.08	0.07	—	0.07	—	724	724	0.03	0.01	—	727
Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	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	0.17	0.17	0.14	2.27	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	764	764	0.01	< 0.005	0.04	765
Vendor	0.07	0.04	1.55	0.54	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,510	1,510	0.03	0.23	0.05	1,579
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.8	90.8	< 0.005	< 0.005	0.07	91.1
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	177	177	< 0.005	0.03	0.11	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.01	15.1
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.02	30.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.59	3.58	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	0.42	0.42	2.23	22.2	0.04	0.08	—	0.08	0.08	—	0.08	—	4,376	4,376	0.18	0.04	—	4,391

Dust From Material Movement	—	—	—	—	—	—	0.95	0.95	—	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	0.08	0.08	0.41	4.04	0.01	0.02	—	0.02	0.02	—	0.02	—	724	724	0.03	0.01	—	727
Dust From Material Movement	—	—	—	—	—	—	0.17	0.17	—	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	0.17	0.17	0.14	2.27	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	764	764	0.01	< 0.005	0.04	765
Vendor	0.07	0.04	1.55	0.54	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,510	1,510	0.03	0.23	0.05	1,579
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.8	90.8	< 0.005	< 0.005	0.07	91.1
Vendor	0.01	< 0.005	0.18	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	177	177	< 0.005	0.03	0.11	185
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	15.0	15.0	< 0.005	< 0.005	0.01	15.1
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29.3	29.3	< 0.005	< 0.005	0.02	30.7

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	14.8	12.4	78.2	111	0.34	3.28	—	3.28	3.02	—	3.02	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	14.8	12.4	78.2	111	0.34	3.28	—	3.28	3.02	—	3.02	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	10.5	8.86	55.9	79.5	0.25	2.34	—	2.34	2.16	—	2.16	—	26,619	26,619	1.08	0.22	—	26,710

Dust From Material Movement	—	—	—	—	—	—	5.78	5.78	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.92	1.62	10.2	14.5	0.04	0.43	—	0.43	0.39	—	0.39	—	4,407	4,407	0.18	0.04	—	4,422
Dust From Material Movement	—	—	—	—	—	—	1.06	1.06	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.11	2.83	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	820	820	0.01	< 0.005	1.21	823
Vendor	0.07	0.04	1.43	0.52	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,458	1,458	0.03	0.23	1.75	1,529
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.14	2.14	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	755	755	0.01	< 0.005	0.03	756
Vendor	0.06	0.03	1.50	0.54	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,459	1,459	0.03	0.23	0.05	1,528
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.61	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	546	546	0.01	< 0.005	0.37	547
Vendor	0.05	0.03	1.07	0.38	0.01	0.01	0.37	0.38	0.01	0.10	0.11	—	1,042	1,042	0.02	0.16	0.54	1,092
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	90.4	90.4	< 0.005	< 0.005	0.06	90.6
Vendor	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	172	172	< 0.005	0.03	0.09	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (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	3.59	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.59	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	2.56	2.55	13.6	135	0.25	0.51	—	0.51	0.51	—	0.51	—	26,619	26,619	1.08	0.22	—	26,710
Dust From Material Movement	—	—	—	—	—	—	5.78	5.78	—	1.61	1.61	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.47	0.47	2.48	24.6	0.04	0.09	—	0.09	0.09	—	0.09	—	4,407	4,407	0.18	0.04	—	4,422
Dust From Material Movement	—	—	—	—	—	—	1.06	1.06	—	0.29	0.29	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.17	0.11	2.83	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	820	820	0.01	< 0.005	1.21	823
Vendor	0.07	0.04	1.43	0.52	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,458	1,458	0.03	0.23	1.75	1,529
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.16	0.14	2.14	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	755	755	0.01	< 0.005	0.03	756
Vendor	0.06	0.03	1.50	0.54	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,459	1,459	0.03	0.23	0.05	1,528
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.61	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	546	546	0.01	< 0.005	0.37	547

Vendor	0.05	0.03	1.07	0.38	0.01	0.01	0.37	0.38	0.01	0.10	0.11	—	1,042	1,042	0.02	0.16	0.54	1,092
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.29	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	90.4	90.4	< 0.005	< 0.005	0.06	90.6
Vendor	0.01	< 0.005	0.19	0.07	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	172	172	< 0.005	0.03	0.09	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	14.4	12.1	74.1	110	0.34	3.04	—	3.04	2.80	—	2.80	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.72	1.44	8.84	13.1	0.04	0.36	—	0.36	0.33	—	0.33	—	4,449	4,449	0.18	0.04	—	4,464

Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	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	0.31	0.26	1.61	2.40	0.01	0.07	—	0.07	0.06	—	0.06	—	737	737	0.03	0.01	—	739
Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	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	0.16	0.16	0.14	2.04	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	747	747	0.01	< 0.005	0.03	748
Vendor	0.07	0.03	1.45	0.53	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,411	1,411	0.03	0.22	0.04	1,476
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.05	90.5
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	168	168	< 0.005	0.03	0.08	176
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	0.01	15.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.9	27.9	< 0.005	< 0.005	0.01	29.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Grading (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.59	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	0.43	0.43	2.27	22.5	0.04	0.08	—	0.08	0.08	—	0.08	—	4,449	4,449	0.18	0.04	—	4,464
Dust From Material Movement	—	—	—	—	—	—	0.97	0.97	—	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	0.08	0.08	0.41	4.11	0.01	0.02	—	0.02	0.02	—	0.02	—	737	737	0.03	0.01	—	739

Dust From Material Movement	—	—	—	—	—	—	0.18	0.18	—	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	0.16	0.16	0.14	2.04	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	747	747	0.01	< 0.005	0.03	748
Vendor	0.07	0.03	1.45	0.53	0.01	0.01	0.52	0.54	0.01	0.14	0.16	—	1,411	1,411	0.03	0.22	0.04	1,476
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	90.2	90.2	< 0.005	< 0.005	0.05	90.5
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	168	168	< 0.005	0.03	0.08	176
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	0.01	15.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.9	27.9	< 0.005	< 0.005	0.01	29.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (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	3.12	2.61	22.4	38.3	0.07	0.56	—	0.56	0.51	—	0.51	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.12	2.61	22.4	38.3	0.07	0.56	—	0.56	0.51	—	0.51	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.55	13.3	22.8	0.04	0.33	—	0.33	0.31	—	0.31	—	4,430	4,430	0.18	0.04	—	4,445
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2.43	4.16	0.01	0.06	—	0.06	0.06	—	0.06	—	733	733	0.03	0.01	—	736
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.22	2.20	1.46	35.5	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,658	10,658	0.08	0.06	13.8	10,691
Vendor	0.20	0.11	3.95	1.45	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,998	3,998	0.08	0.61	4.14	4,186
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	2.10	1.86	26.8	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,813	9,813	0.10	0.06	0.36	9,834
Vendor	0.18	0.10	4.12	1.49	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	4,002	4,002	0.08	0.61	0.11	4,186
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.27	1.25	1.11	16.8	0.00	0.00	6.78	6.78	0.00	1.59	1.59	—	5,911	5,911	0.06	0.03	3.54	5,926
Vendor	0.11	0.06	2.44	0.88	0.02	0.02	0.87	0.89	0.02	0.24	0.26	—	2,379	2,379	0.05	0.36	1.06	2,490
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.20	3.07	0.00	0.00	1.24	1.24	0.00	0.29	0.29	—	979	979	0.01	0.01	0.59	981
Vendor	0.02	0.01	0.45	0.16	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.05	—	394	394	0.01	0.06	0.18	412
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	1.41	1.28	8.98	45.7	0.07	0.24	—	0.24	0.23	—	0.23	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.41	1.28	8.98	45.7	0.07	0.24	—	0.24	0.23	—	0.23	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.76	5.34	27.2	0.04	0.14	—	0.14	0.14	—	0.14	—	4,430	4,430	0.18	0.04	—	4,445
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.98	4.97	0.01	0.03	—	0.03	0.02	—	0.02	—	733	733	0.03	0.01	—	736
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.22	2.20	1.46	35.5	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,658	10,658	0.08	0.06	13.8	10,691
Vendor	0.20	0.11	3.95	1.45	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,998	3,998	0.08	0.61	4.14	4,186
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	2.10	1.86	26.8	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,813	9,813	0.10	0.06	0.36	9,834
Vendor	0.18	0.10	4.12	1.49	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	4,002	4,002	0.08	0.61	0.11	4,186
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.27	1.25	1.11	16.8	0.00	0.00	6.78	6.78	0.00	1.59	1.59	—	5,911	5,911	0.06	0.03	3.54	5,926
Vendor	0.11	0.06	2.44	0.88	0.02	0.02	0.87	0.89	0.02	0.24	0.26	—	2,379	2,379	0.05	0.36	1.06	2,490

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.23	0.23	0.20	3.07	0.00	0.00	1.24	1.24	0.00	0.29	0.29	—	979	979	0.01	0.01	0.59	981
Vendor	0.02	0.01	0.45	0.16	< 0.005	< 0.005	0.16	0.16	< 0.005	0.04	0.05	—	394	394	0.01	0.06	0.18	412
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	3.06	2.56	21.7	38.0	0.07	0.53	—	0.53	0.48	—	0.48	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.06	2.56	21.7	38.0	0.07	0.53	—	0.53	0.48	—	0.48	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.83	15.5	27.2	0.05	0.38	—	0.38	0.35	—	0.35	—	5,333	5,333	0.22	0.04	—	5,351
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.40	0.33	2.83	4.97	0.01	0.07	—	0.07	0.06	—	0.06	—	883	883	0.04	0.01	—	886
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.16	2.12	1.46	33.9	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,547	10,547	0.08	0.06	12.0	10,579
Vendor	0.19	0.11	3.81	1.46	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,868	3,868	0.08	0.61	3.45	4,055
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.10	2.06	1.48	25.5	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,712	9,712	0.10	0.06	0.31	9,732
Vendor	0.18	0.10	4.03	1.49	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,872	3,872	0.08	0.61	0.09	4,056
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.49	1.46	1.06	19.3	0.00	0.00	8.17	8.17	0.00	1.91	1.91	—	7,043	7,043	0.07	0.04	3.71	7,061
Vendor	0.13	0.07	2.87	1.06	0.03	0.03	1.05	1.07	0.03	0.29	0.32	—	2,772	2,772	0.06	0.44	1.07	2,904
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.27	0.19	3.53	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,166	1,166	0.01	0.01	0.61	1,169
Vendor	0.02	0.01	0.52	0.19	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	459	459	0.01	0.07	0.18	481
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	1.41	1.27	8.97	45.7	0.07	0.23	—	0.23	0.23	—	0.23	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.27	8.97	45.7	0.07	0.23	—	0.23	0.23	—	0.23	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.91	6.42	32.8	0.05	0.17	—	0.17	0.16	—	0.16	—	5,333	5,333	0.22	0.04	—	5,351
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.17	5.98	0.01	0.03	—	0.03	0.03	—	0.03	—	883	883	0.04	0.01	—	886
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.16	2.12	1.46	33.9	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,547	10,547	0.08	0.06	12.0	10,579
Vendor	0.19	0.11	3.81	1.46	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,868	3,868	0.08	0.61	3.45	4,055
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.10	2.06	1.48	25.5	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,712	9,712	0.10	0.06	0.31	9,732
Vendor	0.18	0.10	4.03	1.49	0.04	0.04	1.48	1.52	0.04	0.41	0.45	—	3,872	3,872	0.08	0.61	0.09	4,056
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.49	1.46	1.06	19.3	0.00	0.00	8.17	8.17	0.00	1.91	1.91	—	7,043	7,043	0.07	0.04	3.71	7,061
Vendor	0.13	0.07	2.87	1.06	0.03	0.03	1.05	1.07	0.03	0.29	0.32	—	2,772	2,772	0.06	0.44	1.07	2,904
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.27	0.19	3.53	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,166	1,166	0.01	0.01	0.61	1,169
Vendor	0.02	0.01	0.52	0.19	0.01	0.01	0.19	0.20	0.01	0.05	0.06	—	459	459	0.01	0.07	0.18	481
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.01	2.52	21.2	37.7	0.07	0.49	—	0.49	0.45	—	0.45	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	3.01	2.52	21.2	37.7	0.07	0.49	—	0.49	0.45	—	0.45	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.15	1.80	15.2	26.9	0.05	0.35	—	0.35	0.32	—	0.32	—	5,318	5,318	0.22	0.04	—	5,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.77	4.91	0.01	0.06	—	0.06	0.06	—	0.06	—	881	881	0.04	0.01	—	884
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.06	2.02	1.44	32.3	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,455	10,455	0.08	0.06	10.3	10,485
Vendor	0.19	0.11	3.72	1.42	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,755	3,755	0.08	0.57	2.83	3,930
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.97	1.46	24.6	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,627	9,627	0.08	0.06	0.27	9,647
Vendor	0.18	0.10	3.89	1.46	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,759	3,759	0.08	0.57	0.07	3,931
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43	1.40	1.05	18.4	0.00	0.00	8.15	8.15	0.00	1.91	1.91	—	6,962	6,962	0.06	0.04	3.19	6,979
Vendor	0.13	0.07	2.77	1.03	0.03	0.03	1.01	1.04	0.03	0.29	0.32	—	2,683	2,683	0.06	0.41	0.87	2,807

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.26	0.19	3.35	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,153	1,153	0.01	0.01	0.53	1,156
Vendor	0.02	0.01	0.51	0.19	0.01	0.01	0.19	0.19	0.01	0.05	0.06	—	444	444	0.01	0.07	0.14	465
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.27	8.95	45.7	0.07	0.23	—	0.23	0.22	—	0.22	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.27	8.95	45.7	0.07	0.23	—	0.23	0.22	—	0.22	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.91	6.39	32.7	0.05	0.17	—	0.17	0.16	—	0.16	—	5,318	5,318	0.22	0.04	—	5,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.18	0.17	1.17	5.96	0.01	0.03	—	0.03	0.03	—	0.03	—	881	881	0.04	0.01	—	884
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.06	2.02	1.44	32.3	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,455	10,455	0.08	0.06	10.3	10,485
Vendor	0.19	0.11	3.72	1.42	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,755	3,755	0.08	0.57	2.83	3,930
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.00	1.97	1.46	24.6	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,627	9,627	0.08	0.06	0.27	9,647
Vendor	0.18	0.10	3.89	1.46	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,759	3,759	0.08	0.57	0.07	3,931
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.43	1.40	1.05	18.4	0.00	0.00	8.15	8.15	0.00	1.91	1.91	—	6,962	6,962	0.06	0.04	3.19	6,979
Vendor	0.13	0.07	2.77	1.03	0.03	0.03	1.01	1.04	0.03	0.29	0.32	—	2,683	2,683	0.06	0.41	0.87	2,807
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.26	0.26	0.19	3.35	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,153	1,153	0.01	0.01	0.53	1,156
Vendor	0.02	0.01	0.51	0.19	0.01	0.01	0.19	0.19	0.01	0.05	0.06	—	444	444	0.01	0.07	0.14	465
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Building Construction (2038) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.50	20.9	37.6	0.07	0.47	—	0.47	0.44	—	0.44	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.99	2.50	20.9	37.6	0.07	0.47	—	0.47	0.44	—	0.44	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.13	1.79	15.0	26.8	0.05	0.34	—	0.34	0.31	—	0.31	—	5,318	5,318	0.22	0.04	—	5,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	0.33	2.73	4.90	0.01	0.06	—	0.06	0.06	—	0.06	—	881	881	0.04	0.01	—	884
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.97	1.93	1.08	31.4	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,372	10,372	0.08	0.06	8.90	10,400
Vendor	0.19	0.11	3.62	1.42	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,652	3,652	0.08	0.57	2.29	3,827
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.93	1.91	1.46	23.7	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,551	9,551	0.08	0.06	0.23	9,571
Vendor	0.18	0.10	3.84	1.46	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,656	3,656	0.08	0.57	0.06	3,829
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.35	1.04	17.7	0.00	0.00	8.15	8.15	0.00	1.91	1.91	—	6,907	6,907	0.06	0.04	2.75	6,924
Vendor	0.13	0.07	2.73	1.03	0.03	0.03	1.01	1.04	0.03	0.29	0.32	—	2,610	2,610	0.06	0.41	0.71	2,734
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.25	0.19	3.23	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,144	1,144	0.01	0.01	0.45	1,146
Vendor	0.02	0.01	0.50	0.19	0.01	0.01	0.19	0.19	0.01	0.05	0.06	—	432	432	0.01	0.07	0.12	453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Building Construction (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.41	1.27	8.94	45.7	0.07	0.23	—	0.23	0.22	—	0.22	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.41	1.27	8.94	45.7	0.07	0.23	—	0.23	0.22	—	0.22	—	7,446	7,446	0.30	0.06	—	7,471
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.91	6.38	32.7	0.05	0.16	—	0.16	0.16	—	0.16	—	5,318	5,318	0.22	0.04	—	5,337
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.17	1.16	5.96	0.01	0.03	—	0.03	0.03	—	0.03	—	881	881	0.04	0.01	—	884
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.97	1.93	1.08	31.4	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	10,372	10,372	0.08	0.06	8.90	10,400
Vendor	0.19	0.11	3.62	1.42	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,652	3,652	0.08	0.57	2.29	3,827
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.93	1.91	1.46	23.7	0.00	0.00	11.6	11.6	0.00	2.72	2.72	—	9,551	9,551	0.08	0.06	0.23	9,571
Vendor	0.18	0.10	3.84	1.46	0.04	0.04	1.44	1.48	0.04	0.41	0.45	—	3,656	3,656	0.08	0.57	0.06	3,829
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.36	1.35	1.04	17.7	0.00	0.00	8.15	8.15	0.00	1.91	1.91	—	6,907	6,907	0.06	0.04	2.75	6,924
Vendor	0.13	0.07	2.73	1.03	0.03	0.03	1.01	1.04	0.03	0.29	0.32	—	2,610	2,610	0.06	0.41	0.71	2,734

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.25	0.19	3.23	0.00	0.00	1.49	1.49	0.00	0.35	0.35	—	1,144	1,144	0.01	0.01	0.45	1,146
Vendor	0.02	0.01	0.50	0.19	0.01	0.01	0.19	0.19	0.01	0.05	0.06	—	432	432	0.01	0.07	0.12	453
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	8.25	14.7	0.02	0.19	—	0.19	0.17	—	0.17	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.92	0.77	8.25	14.7	0.02	0.19	—	0.19	0.17	—	0.17	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	3.45	6.14	0.01	0.08	—	0.08	0.07	—	0.07	—	949	949	0.04	0.01	—	952
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	0.07	0.06	0.63	1.12	< 0.005	0.01	—	0.01	0.01	—	0.01	—	157	157	0.01	< 0.005	—	158
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	0.05	0.05	0.04	0.82	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	265	265	< 0.005	< 0.005	0.26	266
Vendor	0.08	0.04	1.55	0.59	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,563	1,563	0.03	0.24	1.18	1,636
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	244	244	< 0.005	< 0.005	0.01	245
Vendor	0.08	0.04	1.62	0.61	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,564	1,564	0.03	0.24	0.03	1,636
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	104	104	< 0.005	< 0.005	0.05	104
Vendor	0.03	0.02	0.68	0.25	0.01	0.01	0.25	0.25	0.01	0.07	0.08	—	655	655	0.01	0.10	0.21	685
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	17.1	17.1	< 0.005	< 0.005	0.01	17.2
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.04	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Paving (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	3.26	15.7	0.02	0.08	—	0.08	0.08	—	0.08	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.46	0.42	3.26	15.7	0.02	0.08	—	0.08	0.08	—	0.08	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.17	1.36	6.60	0.01	0.03	—	0.03	0.03	—	0.03	—	949	949	0.04	0.01	—	952
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	0.04	0.03	0.25	1.20	< 0.005	0.01	—	0.01	0.01	—	0.01	—	157	157	0.01	< 0.005	—	158
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	0.05	0.05	0.04	0.82	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	265	265	< 0.005	< 0.005	0.26	266
Vendor	0.08	0.04	1.55	0.59	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,563	1,563	0.03	0.24	1.18	1,636
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	244	244	< 0.005	< 0.005	0.01	245
Vendor	0.08	0.04	1.62	0.61	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,564	1,564	0.03	0.24	0.03	1,636
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	104	104	< 0.005	< 0.005	0.05	104
Vendor	0.03	0.02	0.68	0.25	0.01	0.01	0.25	0.25	0.01	0.07	0.08	—	655	655	0.01	0.10	0.21	685
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	17.1	17.1	< 0.005	< 0.005	0.01	17.2
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	108	108	< 0.005	0.02	0.04	113
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Paving (2038) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.89	0.75	8.07	14.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.89	0.75	8.07	14.6	0.02	0.17	—	0.17	0.16	—	0.16	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.53	5.77	10.5	0.01	0.12	—	0.12	0.11	—	0.11	—	1,619	1,619	0.07	0.01	—	1,624
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	0.12	0.10	1.05	1.91	< 0.005	0.02	—	0.02	0.02	—	0.02	—	268	268	0.01	< 0.005	—	269
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	0.05	0.05	0.03	0.80	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	263	263	< 0.005	< 0.005	0.23	264
Vendor	0.08	0.04	1.51	0.59	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,520	1,520	0.03	0.24	0.95	1,593
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.60	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	242	242	< 0.005	< 0.005	0.01	243
Vendor	0.08	0.04	1.60	0.61	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,522	1,522	0.03	0.24	0.02	1,593
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.45	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	175	175	< 0.005	< 0.005	0.07	176
Vendor	0.06	0.03	1.14	0.43	0.01	0.01	0.42	0.43	0.01	0.12	0.13	—	1,086	1,086	0.02	0.17	0.29	1,138
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.0	29.0	< 0.005	< 0.005	0.01	29.1
Vendor	0.01	0.01	0.21	0.08	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	180	180	< 0.005	0.03	0.05	188
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Paving (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.41	3.23	15.7	0.02	0.08	—	0.08	0.07	—	0.07	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.45	0.41	3.23	15.7	0.02	0.08	—	0.08	0.07	—	0.07	—	2,266	2,266	0.09	0.02	—	2,274
Paving	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.29	2.30	11.2	0.01	0.06	—	0.06	0.05	—	0.05	—	1,619	1,619	0.07	0.01	—	1,624
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	0.06	0.05	0.42	2.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	268	268	0.01	< 0.005	—	269
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	0.05	0.05	0.03	0.80	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	263	263	< 0.005	< 0.005	0.23	264
Vendor	0.08	0.04	1.51	0.59	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,520	1,520	0.03	0.24	0.95	1,593
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.04	0.60	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	242	242	< 0.005	< 0.005	0.01	243
Vendor	0.08	0.04	1.60	0.61	0.02	0.02	0.60	0.62	0.02	0.17	0.19	—	1,522	1,522	0.03	0.24	0.02	1,593
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.45	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	175	175	< 0.005	< 0.005	0.07	176
Vendor	0.06	0.03	1.14	0.43	0.01	0.01	0.42	0.43	0.01	0.12	0.13	—	1,086	1,086	0.02	0.17	0.29	1,138
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.08	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	29.0	29.0	< 0.005	< 0.005	0.01	29.1
Vendor	0.01	0.01	0.21	0.08	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	180	180	< 0.005	0.03	0.05	188
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Architectural Coating (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.00	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	33.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.14	0.12	1.00	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	33.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.06	0.05	0.42	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	13.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	2.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.40	0.29	6.46	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	2,091	2,091	0.02	0.01	2.07	2,097
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.40	0.39	0.29	4.92	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	1,925	1,925	0.02	0.01	0.05	1,929
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.12	2.15	0.00	0.00	0.96	0.96	0.00	0.22	0.22	—	816	816	0.01	< 0.005	0.37	818
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.39	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	135	135	< 0.005	< 0.005	0.06	135
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Architectural Coating (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	1.00	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	6.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	1.00	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	6.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.42	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	2.91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.40	0.29	6.46	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	2,091	2,091	0.02	0.01	2.07	2,097
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.40	0.39	0.29	4.92	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	1,925	1,925	0.02	0.01	0.05	1,929
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.16	0.12	2.15	0.00	0.00	0.96	0.96	0.00	0.22	0.22	—	816	816	0.01	< 0.005	0.37	818
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.39	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	135	135	< 0.005	< 0.005	0.06	135
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Architectural Coating (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	33.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	33.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.10	0.08	0.71	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	127	127	0.01	< 0.005	—	128
Architectural Coatings	—	23.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Architectural Coatings	—	4.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.39	0.22	6.29	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	2,074	2,074	0.02	0.01	1.78	2,080
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.39	0.38	0.29	4.74	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	1,910	1,910	0.02	0.01	0.05	1,914
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.27	0.21	3.54	0.00	0.00	1.63	1.63	0.00	0.38	0.38	—	1,381	1,381	0.01	0.01	0.55	1,385
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.65	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	229	229	< 0.005	< 0.005	0.09	229
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.24. Architectural Coating (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	6.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	6.95	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.71	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	127	127	0.01	< 0.005	—	128
Architectural Coatings	—	4.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Architectural Coatings	—	0.91	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.39	0.22	6.29	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	2,074	2,074	0.02	0.01	1.78	2,080
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.39	0.38	0.29	4.74	0.00	0.00	2.32	2.32	0.00	0.54	0.54	—	1,910	1,910	0.02	0.01	0.05	1,914
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.27	0.21	3.54	0.00	0.00	1.63	1.63	0.00	0.38	0.38	—	1,381	1,381	0.01	0.01	0.55	1,385
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.65	0.00	0.00	0.30	0.30	0.00	0.07	0.07	—	229	229	< 0.005	< 0.005	0.09	229
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	5/1/2033	11/1/2033	5.00	132	—
Grading	Grading	11/2/2033	3/2/2035	5.00	348	—
Building Construction	Building Construction	3/3/2035	12/31/2038	5.00	1,000	—
Paving	Paving	6/1/2037	12/31/2038	5.00	415	—
Architectural Coating	Architectural Coating	6/1/2037	12/31/2038	5.00	415	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38

Building Construction	Cranes	Diesel	Average	3.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	8.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	8.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Average	3.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	3.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	3.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	8.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	3.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	8.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	3.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	3.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	3.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	3.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	23.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	61.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	887	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	173	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	22.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	72.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	177	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	23.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	61.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	887	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	173	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	22.5	18.5	LDA,LDT1,LDT2
Paving	Vendor	72.0	10.2	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	177	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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	1,938,958	646,319	2,475,000	825,000	33,454

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	330	0.00	—
Grading	—	—	6,264	0.00	—
Paving	0.00	0.00	0.00	0.00	17.7

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Light Industry	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%
Single Family Housing	4.93	0%
Apartments Low Rise	—	0%
Strip Mall	0.00	0%
City Park	0.00	0%
Parking Lot	12.8	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2033	0.00	532	0.03	< 0.005
2034	0.00	532	0.03	< 0.005
2035	0.00	532	0.03	< 0.005
2036	0.00	532	0.03	< 0.005
2037	0.00	532	0.03	< 0.005
2038	0.00	532	0.03	< 0.005

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83

Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614

Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule adjusted based on data from the Project team.
Construction: Off-Road Equipment	All equipment assumed to operate 8 hours per day. Crawler tractors used during site preparation and grading in lieu of tractors/loaders/backhoes to account for fugitive dust.
Construction: Trips and VMT	Vendor trips assigned to site preparation, grading, building construction, and paving based on the duration of each phase.
Construction: Architectural Coatings	Rule 1113

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph4 Construction
Construction Start Date	1/1/2037
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.99651242926771, -117.07481407512961
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Office Building	240	1000sqft	5.51	240,000	0.00	—	—	—

Single Family Housing	689	Dwelling Unit	224	1,343,550	8,070,158	—	2,225	—
Apartments Low Rise	194	Dwelling Unit	12.1	205,640	0.00	—	627	—
Elementary School	600	Student	1.15	50,162	0.00	0.00	—	—
City Park	16.5	Acre	16.5	0.00	0.00	0.00	—	—
Parking Lot	10.2	Acre	10.2	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.7	30.8	66.0	110	0.35	2.68	9.24	11.9	2.47	2.54	5.01	—	38,756	38,756	1.53	0.41	6.21	38,918
Mit.	3.78	8.29	19.8	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,756	38,756	1.53	0.41	6.21	38,918
% Reduced	72%	73%	70%	-75%	—	73%	—	16%	71%	—	35%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.7	30.5	66.1	109	0.35	2.68	9.24	11.9	2.47	2.54	5.01	—	38,694	38,694	1.53	0.41	0.16	38,855

Mit.	3.77	8.03	19.8	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,694	38,694	1.53	0.41	0.16	38,855
% Reduced	72%	74%	70%	-75%	—	73%	—	16%	71%	—	35%	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.19	21.8	34.0	61.3	0.18	1.30	6.09	7.30	1.19	1.59	2.78	—	21,418	21,418	0.81	0.29	1.73	21,517
Mit.	2.30	5.71	11.5	103	0.18	0.38	6.09	6.39	0.38	1.59	1.97	—	21,418	21,418	0.81	0.29	1.73	21,517
% Reduced	68%	74%	66%	-68%	—	70%	—	12%	68%	—	29%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.31	3.98	6.21	11.2	0.03	0.24	1.11	1.33	0.22	0.29	0.51	—	3,546	3,546	0.13	0.05	0.29	3,562
Mit.	0.42	1.04	2.09	18.8	0.03	0.07	1.11	1.17	0.07	0.29	0.36	—	3,546	3,546	0.13	0.05	0.29	3,562
% Reduced	68%	74%	66%	-68%	—	70%	—	12%	68%	—	29%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	13.7	11.5	66.0	110	0.35	2.68	9.24	11.9	2.47	2.54	5.01	—	38,756	38,756	1.53	0.41	1.31	38,918
2038	13.4	11.2	62.0	107	0.35	2.53	9.24	11.8	2.32	2.54	4.86	—	38,731	38,731	1.53	0.41	5.65	38,893
2039	4.32	30.8	24.9	62.2	0.09	0.47	8.64	9.11	0.44	2.07	2.50	—	16,367	16,367	0.40	0.40	6.21	16,504
2040	4.25	30.5	24.6	61.6	0.09	0.46	8.64	9.10	0.42	2.07	2.49	—	16,280	16,280	0.38	0.40	5.23	16,415
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	13.7	11.5	66.1	109	0.35	2.68	9.24	11.9	2.47	2.54	5.01	—	38,694	38,694	1.53	0.41	0.03	38,855

2038	13.4	11.2	62.0	106	0.35	2.53	9.24	11.8	2.32	2.54	4.86	—	38,669	38,669	1.53	0.41	0.15	38,830
2039	4.29	30.5	25.2	57.2	0.09	0.47	8.64	9.11	0.44	2.07	2.50	—	15,821	15,821	0.40	0.40	0.16	15,952
2040	4.22	30.5	24.8	56.6	0.09	0.46	8.64	9.10	0.42	2.07	2.49	—	15,737	15,737	0.40	0.40	0.14	15,868
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	6.57	5.52	31.3	52.6	0.17	1.26	4.16	5.42	1.16	1.11	2.27	—	18,372	18,372	0.73	0.20	0.29	18,450
2038	7.19	6.08	34.0	61.3	0.18	1.30	6.00	7.30	1.19	1.59	2.78	—	21,418	21,418	0.81	0.26	0.80	21,517
2039	2.76	13.6	15.9	37.1	0.06	0.30	5.55	5.85	0.28	1.32	1.60	—	10,256	10,256	0.26	0.25	1.73	10,337
2040	3.02	21.8	17.9	41.2	0.07	0.33	6.09	6.41	0.30	1.45	1.76	—	11,327	11,327	0.28	0.29	1.62	11,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.20	1.01	5.72	9.60	0.03	0.23	0.76	0.99	0.21	0.20	0.41	—	3,042	3,042	0.12	0.03	0.05	3,055
2038	1.31	1.11	6.21	11.2	0.03	0.24	1.10	1.33	0.22	0.29	0.51	—	3,546	3,546	0.13	0.04	0.13	3,562
2039	0.50	2.48	2.89	6.77	0.01	0.05	1.01	1.07	0.05	0.24	0.29	—	1,698	1,698	0.04	0.04	0.29	1,711
2040	0.55	3.98	3.27	7.53	0.01	0.06	1.11	1.17	0.06	0.27	0.32	—	1,875	1,875	0.05	0.05	0.27	1,891

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	3.78	3.75	19.8	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,756	38,756	1.53	0.41	1.31	38,918
2038	3.77	3.74	19.7	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,731	38,731	1.53	0.41	5.65	38,893
2039	2.81	8.29	12.2	68.8	0.09	0.24	8.64	8.88	0.24	2.07	2.30	—	16,367	16,367	0.40	0.40	6.21	16,504
2040	2.76	8.01	12.1	68.2	0.09	0.24	8.64	8.88	0.23	2.07	2.30	—	16,280	16,280	0.38	0.40	5.23	16,415
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	3.77	3.74	19.8	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,694	38,694	1.53	0.41	0.03	38,855

2038	3.77	3.74	19.8	191	0.35	0.71	9.24	9.96	0.71	2.54	3.25	—	38,669	38,669	1.53	0.41	0.15	38,830
2039	2.78	8.03	12.6	63.8	0.09	0.24	8.64	8.88	0.24	2.07	2.30	—	15,821	15,821	0.40	0.40	0.16	15,952
2040	2.73	7.98	12.3	63.2	0.09	0.24	8.64	8.88	0.23	2.07	2.30	—	15,737	15,737	0.40	0.40	0.14	15,868
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	1.79	1.77	9.38	91.2	0.17	0.34	4.16	4.50	0.34	1.11	1.44	—	18,372	18,372	0.73	0.20	0.29	18,450
2038	2.30	2.26	11.5	103	0.18	0.38	6.00	6.39	0.38	1.59	1.97	—	21,418	21,418	0.81	0.26	0.80	21,517
2039	1.77	3.87	7.74	41.6	0.06	0.16	5.55	5.70	0.15	1.32	1.47	—	10,256	10,256	0.26	0.25	1.73	10,337
2040	1.96	5.71	8.96	46.0	0.07	0.17	6.09	6.26	0.17	1.45	1.62	—	11,327	11,327	0.28	0.29	1.62	11,422
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2037	0.33	0.32	1.71	16.6	0.03	0.06	0.76	0.82	0.06	0.20	0.26	—	3,042	3,042	0.12	0.03	0.05	3,055
2038	0.42	0.41	2.09	18.8	0.03	0.07	1.10	1.17	0.07	0.29	0.36	—	3,546	3,546	0.13	0.04	0.13	3,562
2039	0.32	0.71	1.41	7.59	0.01	0.03	1.01	1.04	0.03	0.24	0.27	—	1,698	1,698	0.04	0.04	0.29	1,711
2040	0.36	1.04	1.64	8.39	0.01	0.03	1.11	1.14	0.03	0.27	0.30	—	1,875	1,875	0.05	0.05	0.27	1,891

3. Construction Emissions Details

3.1. Site Preparation (2037) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.82	2.37	12.5	23.3	0.07	0.49	—	0.49	0.45	—	0.45	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.82	2.37	12.5	23.3	0.07	0.49	—	0.49	0.45	—	0.45	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.83	0.70	3.70	6.91	0.02	0.15	—	0.15	0.13	—	0.13	—	2,096	2,096	0.09	0.02	—	2,103
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	0.67	1.26	< 0.005	0.03	—	0.03	0.02	—	0.02	—	347	347	0.01	< 0.005	—	348
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.82	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	265	265	< 0.005	< 0.005	0.26	266
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	239	239	0.01	0.04	0.18	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	244	244	< 0.005	< 0.005	0.01	245
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	239	239	0.01	0.04	< 0.005	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.19	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.03	73.3
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.7	70.7	< 0.005	0.01	0.02	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	< 0.005	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2037) - Mitigated

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

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

Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.03	11.4	0.02	0.04	—	0.04	0.04	—	0.04	—	2,096	2,096	0.09	0.02	—	2,103
Dust From Material Movement	—	—	—	—	—	—	0.20	0.20	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.19	2.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	347	347	0.01	< 0.005	—	348
Dust From Material Movement	—	—	—	—	—	—	0.04	0.04	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.82	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	265	265	< 0.005	< 0.005	0.26	266
Vendor	0.01	0.01	0.24	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	239	239	0.01	0.04	0.18	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.04	0.62	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	244	244	< 0.005	< 0.005	0.01	245
Vendor	0.01	0.01	0.25	0.09	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	239	239	0.01	0.04	< 0.005	250
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.19	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	73.1	73.1	< 0.005	< 0.005	0.03	73.3
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	70.7	70.7	< 0.005	0.01	0.02	73.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	12.1	12.1	< 0.005	< 0.005	0.01	12.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	< 0.005	12.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2037) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	13.5	11.4	65.2	107	0.34	2.67	—	2.67	2.46	—	2.46	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	13.5	11.4	65.2	107	0.34	2.67	—	2.67	2.46	—	2.46	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	5.64	4.74	27.2	44.6	0.14	1.11	—	1.11	1.02	—	1.02	—	15,533	15,533	0.63	0.13	—	15,587
Dust From Material Movement	—	—	—	—	—	—	3.37	3.37	—	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	1.03	0.86	4.96	8.13	0.03	0.20	—	0.20	0.19	—	0.19	—	2,572	2,572	0.10	0.02	—	2,581

Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	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	0.16	0.15	0.11	2.46	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	795	795	0.01	< 0.005	0.79	798
Vendor	0.04	0.02	0.69	0.26	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	695	695	0.01	0.11	0.52	727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.11	1.87	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	732	732	0.01	< 0.005	0.02	734
Vendor	0.03	0.02	0.72	0.27	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	695	695	0.01	0.11	0.01	727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.82	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	309	309	< 0.005	< 0.005	0.14	310
Vendor	0.01	0.01	0.30	0.11	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	290	290	0.01	0.04	0.09	303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.2	51.2	< 0.005	< 0.005	0.02	51.3
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.0	48.0	< 0.005	0.01	0.02	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2037) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.59	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.59	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.49	1.49	7.92	78.7	0.14	0.29	—	0.29	0.29	—	0.29	—	15,533	15,533	0.63	0.13	—	15,587
Dust From Material Movement	—	—	—	—	—	—	3.37	3.37	—	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	0.27	0.27	1.45	14.4	0.03	0.05	—	0.05	0.05	—	0.05	—	2,572	2,572	0.10	0.02	—	2,581
Dust From Material Movement	—	—	—	—	—	—	0.62	0.62	—	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	0.16	0.15	0.11	2.46	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	795	795	0.01	< 0.005	0.79	798
Vendor	0.04	0.02	0.69	0.26	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	695	695	0.01	0.11	0.52	727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.11	1.87	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	732	732	0.01	< 0.005	0.02	734
Vendor	0.03	0.02	0.72	0.27	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	695	695	0.01	0.11	0.01	727
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.82	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	309	309	< 0.005	< 0.005	0.14	310
Vendor	0.01	0.01	0.30	0.11	< 0.005	< 0.005	0.11	0.11	< 0.005	0.03	0.03	—	290	290	0.01	0.04	0.09	303
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	51.2	51.2	< 0.005	< 0.005	0.02	51.3
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.0	48.0	< 0.005	0.01	0.02	50.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	13.2	11.1	61.2	104	0.34	2.52	—	2.52	2.32	—	2.32	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	13.2	11.1	61.2	104	0.34	2.52	—	2.52	2.32	—	2.32	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	6.32	5.31	29.3	50.0	0.17	1.21	—	1.21	1.11	—	1.11	—	17,867	17,867	0.72	0.14	—	17,929
Dust From Material Movement	—	—	—	—	—	—	3.88	3.88	—	1.08	1.08	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.15	0.97	5.36	9.12	0.03	0.22	—	0.22	0.20	—	0.20	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	—	0.71	0.71	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.08	2.39	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	789	789	0.01	< 0.005	0.68	791
Vendor	0.04	0.02	0.67	0.26	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	676	676	0.01	0.11	0.42	708
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.11	1.80	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	727	727	0.01	< 0.005	0.02	728
Vendor	0.03	0.02	0.71	0.27	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	676	676	0.01	0.11	0.01	708
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.90	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	353	353	< 0.005	< 0.005	0.14	354
Vendor	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	324	324	0.01	0.05	0.09	339
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.17	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	58.4	58.4	< 0.005	< 0.005	0.02	58.5
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	53.6	53.6	< 0.005	0.01	0.01	56.2

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2038) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.72	1.71	9.10	90.5	0.17	0.34	—	0.34	0.34	—	0.34	—	17,867	17,867	0.72	0.14	—	17,929

Dust From Material Movement	—	—	—	—	—	—	3.88	3.88	—	1.08	1.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.31	1.66	16.5	0.03	0.06	—	0.06	0.06	—	0.06	—	2,958	2,958	0.12	0.02	—	2,968
Dust From Material Movement	—	—	—	—	—	—	0.71	0.71	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.08	2.39	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	789	789	0.01	< 0.005	0.68	791
Vendor	0.04	0.02	0.67	0.26	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	676	676	0.01	0.11	0.42	708
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.15	0.11	1.80	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	727	727	0.01	< 0.005	0.02	728
Vendor	0.03	0.02	0.71	0.27	0.01	0.01	0.27	0.27	0.01	0.08	0.08	—	676	676	0.01	0.11	0.01	708
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.90	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	353	353	< 0.005	< 0.005	0.14	354
Vendor	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	324	324	0.01	0.05	0.09	339
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.17	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	58.4	58.4	< 0.005	< 0.005	0.02	58.5
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	53.6	53.6	< 0.005	0.01	0.01	56.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2038) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.88	16.1	30.0	0.06	0.35	—	0.35	0.32	—	0.32	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.25	1.88	16.1	30.0	0.06	0.35	—	0.35	0.32	—	0.32	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.53	0.44	3.78	7.03	0.01	0.08	—	0.08	0.08	—	0.08	—	1,339	1,339	0.05	0.01	—	1,343
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.69	1.28	< 0.005	0.01	—	0.01	0.01	—	0.01	—	222	222	0.01	< 0.005	—	222

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.05	0.59	17.2	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,677	5,677	0.04	0.03	4.87	5,692
Vendor	0.07	0.04	1.24	0.48	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,245	1,245	0.03	0.19	0.78	1,305
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.04	0.80	13.0	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,227	5,227	0.04	0.03	0.13	5,238
Vendor	0.06	0.03	1.31	0.50	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,247	1,247	0.03	0.19	0.02	1,306
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.24	0.19	3.19	0.00	0.00	1.47	1.47	0.00	0.34	0.34	—	1,243	1,243	0.01	0.01	0.49	1,246
Vendor	0.02	0.01	0.31	0.12	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.04	—	293	293	0.01	0.05	0.08	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.58	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	206	206	< 0.005	< 0.005	0.08	206
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.4	48.4	< 0.005	0.01	0.01	50.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2038) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.32	35.6	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.32	35.6	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.22	1.48	8.37	0.01	0.04	—	0.04	0.04	—	0.04	—	1,339	1,339	0.05	0.01	—	1,343
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.27	1.53	< 0.005	0.01	—	0.01	0.01	—	0.01	—	222	222	0.01	< 0.005	—	222
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.08	1.05	0.59	17.2	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,677	5,677	0.04	0.03	4.87	5,692
Vendor	0.07	0.04	1.24	0.48	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,245	1,245	0.03	0.19	0.78	1,305
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.05	1.04	0.80	13.0	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,227	5,227	0.04	0.03	0.13	5,238
Vendor	0.06	0.03	1.31	0.50	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,247	1,247	0.03	0.19	0.02	1,306
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.25	0.24	0.19	3.19	0.00	0.00	1.47	1.47	0.00	0.34	0.34	—	1,243	1,243	0.01	0.01	0.49	1,246
Vendor	0.02	0.01	0.31	0.12	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.04	—	293	293	0.01	0.05	0.08	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.58	0.00	0.00	0.27	0.27	0.00	0.06	0.06	—	206	206	< 0.005	< 0.005	0.08	206
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.4	48.4	< 0.005	0.01	0.01	50.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2039) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.23	1.86	15.8	29.8	0.06	0.33	—	0.33	0.31	—	0.31	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.23	1.86	15.8	29.8	0.06	0.33	—	0.33	0.31	—	0.31	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.59	1.33	11.3	21.3	0.04	0.24	—	0.24	0.22	—	0.22	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.06	3.89	0.01	0.04	—	0.04	0.04	—	0.04	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.00	0.58	16.5	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,637	5,637	0.04	0.03	4.19	5,652
Vendor	0.07	0.04	1.22	0.49	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,215	1,215	0.03	0.18	0.63	1,270
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.00	0.79	0.79	12.5	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,192	5,192	0.04	0.03	0.11	5,203
Vendor	0.06	0.03	1.28	0.50	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,216	1,216	0.03	0.18	0.02	1,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.56	0.57	9.35	0.00	0.00	4.46	4.46	0.00	1.04	1.04	—	3,755	3,755	0.03	0.02	1.29	3,763
Vendor	0.05	0.03	0.91	0.35	0.01	0.01	0.35	0.36	0.01	0.10	0.11	—	868	868	0.02	0.13	0.19	907

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.10	1.71	0.00	0.00	0.81	0.81	0.00	0.19	0.19	—	622	622	0.01	< 0.005	0.21	623
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	144	144	< 0.005	0.02	0.03	150
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2039) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.32	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.32	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.51	25.5	0.04	0.12	—	0.12	0.12	—	0.12	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.13	0.12	0.82	4.65	0.01	0.02	—	0.02	0.02	—	0.02	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.02	1.00	0.58	16.5	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,637	5,637	0.04	0.03	4.19	5,652
Vendor	0.07	0.04	1.22	0.49	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,215	1,215	0.03	0.18	0.63	1,270
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.00	0.79	0.79	12.5	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,192	5,192	0.04	0.03	0.11	5,203
Vendor	0.06	0.03	1.28	0.50	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,216	1,216	0.03	0.18	0.02	1,271
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.56	0.57	9.35	0.00	0.00	4.46	4.46	0.00	1.04	1.04	—	3,755	3,755	0.03	0.02	1.29	3,763
Vendor	0.05	0.03	0.91	0.35	0.01	0.01	0.35	0.36	0.01	0.10	0.11	—	868	868	0.02	0.13	0.19	907
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.10	1.71	0.00	0.00	0.81	0.81	0.00	0.19	0.19	—	622	622	0.01	< 0.005	0.21	623
Vendor	0.01	< 0.005	0.17	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	144	144	< 0.005	0.02	0.03	150
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2040) - Unmitigated

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

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	15.7	29.8	0.06	0.32	—	0.32	0.30	—	0.30	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.21	1.85	15.7	29.8	0.06	0.32	—	0.32	0.30	—	0.30	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.58	1.33	11.2	21.3	0.04	0.23	—	0.23	0.21	—	0.21	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.05	3.89	0.01	0.04	—	0.04	0.04	—	0.04	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.98	0.77	0.58	16.1	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,603	5,603	0.03	0.03	3.57	5,617
Vendor	0.07	0.04	1.19	0.48	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,187	1,187	0.03	0.18	0.50	1,243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.75	0.59	12.0	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,160	5,160	0.04	0.03	0.09	5,171
Vendor	0.06	0.03	1.26	0.49	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,189	1,189	0.03	0.18	0.01	1,244
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.54	0.56	9.19	0.00	0.00	4.47	4.47	0.00	1.05	1.05	—	3,742	3,742	0.03	0.02	1.11	3,751
Vendor	0.05	0.03	0.90	0.35	0.01	0.01	0.35	0.36	0.01	0.10	0.11	—	851	851	0.02	0.13	0.15	890
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.10	1.68	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	620	620	0.01	< 0.005	0.18	621
Vendor	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	141	141	< 0.005	0.02	0.03	147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.52	25.5	0.04	0.12	—	0.12	0.12	—	0.12	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.12	0.83	4.66	0.01	0.02	—	0.02	0.02	—	0.02	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.98	0.77	0.58	16.1	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,603	5,603	0.03	0.03	3.57	5,617
Vendor	0.07	0.04	1.19	0.48	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,187	1,187	0.03	0.18	0.50	1,243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.96	0.75	0.59	12.0	0.00	0.00	6.35	6.35	0.00	1.49	1.49	—	5,160	5,160	0.04	0.03	0.09	5,171
Vendor	0.06	0.03	1.26	0.49	0.01	0.01	0.49	0.50	0.01	0.14	0.15	—	1,189	1,189	0.03	0.18	0.01	1,244
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.69	0.54	0.56	9.19	0.00	0.00	4.47	4.47	0.00	1.05	1.05	—	3,742	3,742	0.03	0.02	1.11	3,751
Vendor	0.05	0.03	0.90	0.35	0.01	0.01	0.35	0.36	0.01	0.10	0.11	—	851	851	0.02	0.13	0.15	890

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.10	1.68	0.00	0.00	0.82	0.82	0.00	0.19	0.19	—	620	620	0.01	< 0.005	0.18	621
Vendor	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	141	141	< 0.005	0.02	0.03	147
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2039) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.31	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	0.24	0.21	2.22	4.08	0.01	0.05	—	0.05	0.04	—	0.04	—	633	633	0.03	0.01	—	635
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	0.04	0.04	0.41	0.75	< 0.005	0.01	—	0.01	0.01	—	0.01	—	105	105	< 0.005	< 0.005	—	105
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	0.03	0.03	0.02	0.51	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	174	174	< 0.005	< 0.005	0.13	175
Vendor	0.04	0.02	0.83	0.33	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	824	824	0.02	0.12	0.42	861
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.39	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	160	160	< 0.005	< 0.005	< 0.005	161
Vendor	0.04	0.02	0.87	0.34	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	825	825	0.02	0.12	0.01	862
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.0	68.0	< 0.005	< 0.005	0.02	68.2
Vendor	0.02	0.01	0.36	0.14	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	345	345	0.01	0.05	0.08	361
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.3
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	57.1	57.1	< 0.005	0.01	0.01	59.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2039) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.27	2.14	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	0.29	0.27	2.14	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	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	0.12	0.11	0.90	4.39	0.01	0.02	—	0.02	0.02	—	0.02	—	633	633	0.03	0.01	—	635
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	0.02	0.02	0.16	0.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	105	105	< 0.005	< 0.005	—	105
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	0.03	0.03	0.02	0.51	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	174	174	< 0.005	< 0.005	0.13	175
Vendor	0.04	0.02	0.83	0.33	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	824	824	0.02	0.12	0.42	861
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.39	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	160	160	< 0.005	< 0.005	< 0.005	161
Vendor	0.04	0.02	0.87	0.34	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	825	825	0.02	0.12	0.01	862
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	68.0	68.0	< 0.005	< 0.005	0.02	68.2
Vendor	0.02	0.01	0.36	0.14	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	345	345	0.01	0.05	0.08	361
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.3	11.3	< 0.005	< 0.005	< 0.005	11.3
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	57.1	57.1	< 0.005	0.01	0.01	59.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Paving (2040) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.58	0.49	5.27	9.75	0.01	0.11	—	0.11	0.10	—	0.10	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.41	0.35	3.78	6.98	0.01	0.08	—	0.08	0.07	—	0.07	—	1,082	1,082	0.04	0.01	—	1,086
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.06	0.69	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	180
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.02	0.50	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	173	173	< 0.005	< 0.005	0.11	174
Vendor	0.04	0.02	0.81	0.32	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	805	805	0.02	0.12	0.34	843
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.37	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	159	159	< 0.005	< 0.005	< 0.005	160
Vendor	0.04	0.02	0.86	0.33	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	806	806	0.02	0.12	0.01	843
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	116	116	< 0.005	< 0.005	0.03	116
Vendor	0.03	0.02	0.61	0.23	0.01	0.01	0.24	0.24	0.01	0.07	0.07	—	577	577	0.01	0.09	0.11	604
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	19.1	19.1	< 0.005	< 0.005	0.01	19.2
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	95.5	95.5	< 0.005	0.01	0.02	99.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Paving (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.26	2.13	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
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	0.29	0.26	2.13	10.5	0.01	0.05	—	0.05	0.05	—	0.05	—	1,511	1,511	0.06	0.01	—	1,516
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	0.21	0.19	1.53	7.51	0.01	0.03	—	0.03	0.03	—	0.03	—	1,082	1,082	0.04	0.01	—	1,086
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.28	1.37	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	180
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	0.03	0.02	0.02	0.50	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	173	173	< 0.005	< 0.005	0.11	174
Vendor	0.04	0.02	0.81	0.32	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	805	805	0.02	0.12	0.34	843
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.02	0.02	0.37	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	159	159	< 0.005	< 0.005	< 0.005	160
Vendor	0.04	0.02	0.86	0.33	0.01	0.01	0.33	0.34	0.01	0.09	0.10	—	806	806	0.02	0.12	0.01	843
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	116	116	< 0.005	< 0.005	0.03	116
Vendor	0.03	0.02	0.61	0.23	0.01	0.01	0.24	0.24	0.01	0.07	0.07	—	577	577	0.01	0.09	0.11	604
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	19.1	19.1	< 0.005	< 0.005	0.01	19.2
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	95.5	95.5	< 0.005	0.01	0.02	99.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Architectural Coating (2039) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.42	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.20	0.12	3.31	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,127	1,127	0.01	0.01	0.84	1,130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.20	0.16	0.16	2.50	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,038	1,038	0.01	0.01	0.02	1,041
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.10	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	440	440	< 0.005	< 0.005	0.15	441
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	72.9	72.9	< 0.005	< 0.005	0.03	73.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Architectural Coating (2039) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.42	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	2.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.20	0.12	3.31	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,127	1,127	0.01	0.01	0.84	1,130
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.20	0.16	0.16	2.50	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,038	1,038	0.01	0.01	0.02	1,041
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.10	0.00	0.00	0.52	0.52	0.00	0.12	0.12	—	440	440	< 0.005	< 0.005	0.15	441
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.01	0.01	0.20	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	72.9	72.9	< 0.005	< 0.005	0.03	73.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2040) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	27.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.71	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	128	128	0.01	< 0.005	—	128
Architectural Coatings	—	19.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.2
Architectural Coatings	—	3.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.15	0.12	3.22	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,121	1,121	0.01	0.01	0.71	1,123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.12	2.40	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,032	1,032	0.01	0.01	0.02	1,034
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.11	1.84	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	748	748	0.01	< 0.005	0.22	750
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.34	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	124	124	< 0.005	< 0.005	0.04	124
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2040) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	5.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.71	1.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	128	128	0.01	< 0.005	—	128
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.2
Architectural Coatings	—	0.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.20	0.15	0.12	3.22	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,121	1,121	0.01	0.01	0.71	1,123
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.12	2.40	0.00	0.00	1.27	1.27	0.00	0.30	0.30	—	1,032	1,032	0.01	0.01	0.02	1,034
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.11	1.84	0.00	0.00	0.89	0.89	0.00	0.21	0.21	—	748	748	0.01	< 0.005	0.22	750
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.34	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	124	124	< 0.005	< 0.005	0.04	124
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2037	6/1/2037	5.00	108	—
Grading	Grading	6/2/2037	9/2/2038	5.00	328	—
Building Construction	Building Construction	9/3/2038	12/31/2040	5.00	607	—
Paving	Paving	6/1/2039	12/31/2040	5.00	414	—
Architectural Coating	Architectural Coating	6/1/2039	12/31/2040	5.00	414	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38

Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	7.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	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	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	7.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	11.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	32.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	486	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	59.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	40.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	97.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	11.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	32.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	486	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	59.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	40.0	10.2	HHDT,MHDT

Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	97.1	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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	3,137,110	1,045,703	435,243	145,081	26,737

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	270	0.00	—
Grading	—	—	5,904	0.00	—
Paving	0.00	0.00	0.00	0.00	17.8

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
General Office Building	0.00	0%
Single Family Housing	7.59	0%
Apartments Low Rise	—	0%
Elementary School	0.00	0%
City Park	0.00	0%
Parking Lot	10.2	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2037	0.00	532	0.03	< 0.005
2038	0.00	532	0.03	< 0.005
2039	0.00	532	0.03	< 0.005
2040	0.00	532	0.03	< 0.005

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	28.1	annual days of extreme heat

Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6

Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—

Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0

Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—

Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Construction: Construction Phases	Construction schedule adjusted based on data from the Project team.
Construction: Off-Road Equipment	All equipment will operate 8 hours per day. Crawler tractors assumed in lieu of tractors/loaders/backhoes during site preparation and grading in order to account for fugitive dust.
Construction: Trips and VMT	Vendor trips assigned to site preparation, grading, building construction, and paving based on the duration of each phase.
Construction: Architectural Coatings	Rule 1113

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph5 Construction
Construction Start Date	1/1/2041
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.99632739571629, -117.07459033936208
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.22

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
Single Family Housing	547	Dwelling Unit	178	1,066,650	6,406,933	—	1,767	—

Apartments Low Rise	249	Dwelling Unit	15.6	263,940	0.00	—	804	—
Elementary School	600	Student	1.15	50,162	0.00	0.00	—	—
City Park	12.2	Acre	12.2	0.00	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

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

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	23.8	54.1	101	0.35	2.20	9.11	11.3	2.03	2.50	4.53	—	38,356	38,356	1.52	0.36	2.41	38,501
Mit.	3.73	6.15	19.4	191	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,356	38,356	1.52	0.36	2.41	38,501
% Reduced	70%	74%	64%	-90%	—	68%	—	13%	65%	—	29%	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	23.8	54.1	100	0.35	2.20	9.11	11.3	2.03	2.50	4.53	—	38,295	38,295	1.52	0.36	0.06	38,440
Mit.	3.73	6.13	19.4	190	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,295	38,295	1.52	0.36	0.06	38,440
% Reduced	70%	74%	64%	-90%	—	68%	—	13%	65%	—	29%	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.68	17.0	28.4	53.6	0.18	1.15	5.02	5.78	1.06	1.29	2.28	—	20,059	20,059	0.80	0.21	0.63	20,135
Mit.	1.95	4.37	10.1	100	0.18	0.37	5.02	5.30	0.37	1.29	1.60	—	20,059	20,059	0.80	0.21	0.63	20,135
% Reduced	71%	74%	64%	-87%	—	68%	—	8%	65%	—	30%	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.22	3.10	5.18	9.78	0.03	0.21	0.92	1.06	0.19	0.24	0.42	—	3,321	3,321	0.13	0.04	0.10	3,334
Mit.	0.36	0.80	1.85	18.3	0.03	0.07	0.92	0.97	0.07	0.24	0.29	—	3,321	3,321	0.13	0.04	0.10	3,334
% Reduced	71%	74%	64%	-87%	—	68%	—	8%	65%	—	30%	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	12.6	10.6	54.1	101	0.35	2.20	9.11	11.3	2.03	2.50	4.53	—	38,356	38,356	1.52	0.36	0.53	38,501
2042	12.5	10.5	52.4	98.9	0.35	2.12	9.11	11.2	1.95	2.50	4.46	—	38,347	38,347	1.52	0.36	2.41	38,491
2043	2.96	2.41	16.7	42.2	0.07	0.31	5.62	5.92	0.28	1.34	1.62	—	11,191	11,191	0.28	0.22	2.03	11,265
2044	3.61	23.8	23.2	56.1	0.09	0.39	7.04	7.43	0.36	1.68	2.04	—	14,332	14,332	0.36	0.30	2.16	14,433
2045	3.56	23.8	23.0	55.9	0.09	0.37	7.04	7.41	0.34	1.68	2.02	—	14,297	14,297	0.36	0.29	1.82	14,394
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	12.6	10.6	54.1	100	0.35	2.20	9.11	11.3	2.03	2.50	4.53	—	38,295	38,295	1.52	0.36	0.01	38,440
2042	12.5	10.5	52.5	98.4	0.35	2.12	9.11	11.2	1.95	2.50	4.46	—	38,286	38,286	1.52	0.36	0.06	38,430

2043	2.79	2.40	16.8	39.2	0.07	0.31	5.62	5.92	0.28	1.34	1.62	—	10,835	10,835	0.29	0.22	0.05	10,908
2044	3.60	23.8	23.3	52.4	0.09	0.39	7.04	7.43	0.36	1.68	2.04	—	13,894	13,894	0.36	0.30	0.06	13,993
2045	3.55	23.8	23.1	52.2	0.09	0.37	7.04	7.41	0.34	1.68	2.02	—	13,861	13,861	0.36	0.30	0.05	13,960
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	6.68	5.61	28.4	53.6	0.18	1.15	4.59	5.73	1.06	1.23	2.28	—	20,059	20,059	0.80	0.19	0.13	20,135
2042	4.98	4.15	22.7	46.1	0.13	0.77	5.02	5.78	0.71	1.29	2.00	—	15,996	15,996	0.58	0.20	0.49	16,071
2043	1.99	1.72	12.0	28.3	0.05	0.22	3.95	4.17	0.20	0.94	1.14	—	7,776	7,776	0.21	0.16	0.63	7,828
2044	2.32	10.7	14.7	33.9	0.06	0.25	4.54	4.79	0.23	1.08	1.31	—	9,074	9,074	0.24	0.19	0.61	9,138
2045	2.53	17.0	16.5	37.7	0.06	0.26	4.94	5.21	0.24	1.18	1.42	—	9,945	9,945	0.26	0.21	0.56	10,016
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	1.22	1.02	5.18	9.78	0.03	0.21	0.84	1.05	0.19	0.22	0.42	—	3,321	3,321	0.13	0.03	0.02	3,334
2042	0.91	0.76	4.15	8.41	0.02	0.14	0.92	1.06	0.13	0.24	0.37	—	2,648	2,648	0.10	0.03	0.08	2,661
2043	0.36	0.31	2.19	5.17	0.01	0.04	0.72	0.76	0.04	0.17	0.21	—	1,287	1,287	0.03	0.03	0.10	1,296
2044	0.42	1.95	2.68	6.19	0.01	0.05	0.83	0.87	0.04	0.20	0.24	—	1,502	1,502	0.04	0.03	0.10	1,513
2045	0.46	3.10	3.01	6.88	0.01	0.05	0.90	0.95	0.04	0.22	0.26	—	1,647	1,647	0.04	0.04	0.09	1,658

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	3.73	3.69	19.4	191	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,356	38,356	1.52	0.36	0.53	38,501
2042	3.73	3.68	19.4	191	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,347	38,347	1.52	0.36	2.41	38,491
2043	1.80	1.51	7.76	48.3	0.07	0.18	5.62	5.80	0.17	1.34	1.51	—	11,191	11,191	0.28	0.22	2.03	11,265
2044	2.19	6.15	11.4	63.1	0.09	0.23	7.04	7.27	0.22	1.68	1.90	—	14,332	14,332	0.36	0.30	2.16	14,433
2045	2.17	6.13	11.3	63.1	0.09	0.23	7.04	7.26	0.22	1.68	1.90	—	14,297	14,297	0.36	0.29	1.82	14,394

Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	3.73	3.68	19.4	190	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,295	38,295	1.52	0.36	0.01	38,440
2042	3.73	3.68	19.4	190	0.35	0.71	9.11	9.82	0.71	2.50	3.21	—	38,286	38,286	1.52	0.36	0.06	38,430
2043	1.62	1.50	7.83	45.3	0.07	0.18	5.62	5.80	0.17	1.34	1.51	—	10,835	10,835	0.29	0.22	0.05	10,908
2044	2.18	6.13	11.5	59.3	0.09	0.23	7.04	7.27	0.22	1.68	1.90	—	13,894	13,894	0.36	0.30	0.06	13,993
2045	2.16	6.12	11.4	59.3	0.09	0.23	7.04	7.26	0.22	1.68	1.90	—	13,861	13,861	0.36	0.30	0.05	13,960
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	1.95	1.93	10.1	100	0.18	0.37	4.59	4.96	0.37	1.23	1.60	—	20,059	20,059	0.80	0.19	0.13	20,135
2042	1.87	1.73	9.05	76.1	0.13	0.29	5.02	5.30	0.28	1.29	1.58	—	15,996	15,996	0.58	0.20	0.49	16,071
2043	1.16	1.07	5.58	32.7	0.05	0.13	3.95	4.07	0.12	0.94	1.06	—	7,776	7,776	0.21	0.16	0.63	7,828
2044	1.38	3.00	7.12	38.7	0.06	0.15	4.54	4.69	0.14	1.08	1.23	—	9,074	9,074	0.24	0.19	0.61	9,138
2045	1.54	4.37	8.16	42.8	0.06	0.16	4.94	5.11	0.16	1.18	1.34	—	9,945	9,945	0.26	0.21	0.56	10,016
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2041	0.36	0.35	1.85	18.3	0.03	0.07	0.84	0.90	0.07	0.22	0.29	—	3,321	3,321	0.13	0.03	0.02	3,334
2042	0.34	0.32	1.65	13.9	0.02	0.05	0.92	0.97	0.05	0.24	0.29	—	2,648	2,648	0.10	0.03	0.08	2,661
2043	0.21	0.20	1.02	5.97	0.01	0.02	0.72	0.74	0.02	0.17	0.19	—	1,287	1,287	0.03	0.03	0.10	1,296
2044	0.25	0.55	1.30	7.06	0.01	0.03	0.83	0.86	0.03	0.20	0.22	—	1,502	1,502	0.04	0.03	0.10	1,513
2045	0.28	0.80	1.49	7.81	0.01	0.03	0.90	0.93	0.03	0.22	0.24	—	1,647	1,647	0.04	0.04	0.09	1,658

3. Construction Emissions Details

3.1. Site Preparation (2041) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.24	10.5	23.2	0.07	0.40	—	0.40	0.36	—	0.36	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.66	2.24	10.5	23.2	0.07	0.40	—	0.40	0.36	—	0.36	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.63	0.53	2.50	5.53	0.02	0.09	—	0.09	0.09	—	0.09	—	1,688	1,688	0.07	0.01	—	1,694
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.10	0.46	1.01	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.01	< 0.005	—	280

Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.72	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	258	258	< 0.005	< 0.005	0.14	259
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	98.6	98.6	< 0.005	0.02	0.03	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.55	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	238	238	< 0.005	< 0.005	< 0.005	238
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	98.7	98.7	< 0.005	0.02	< 0.005	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	57.4	57.4	< 0.005	< 0.005	0.01	57.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	< 0.005	24.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	9.50	9.50	< 0.005	< 0.005	< 0.005	9.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Site Preparation (2041) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.67	0.67	3.48	38.4	0.07	0.13	—	0.13	0.13	—	0.13	—	7,083	7,083	0.29	0.06	—	7,107
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	0.83	9.16	0.02	0.03	—	0.03	0.03	—	0.03	—	1,688	1,688	0.07	0.01	—	1,694
Dust From Material Movement	—	—	—	—	—	—	0.16	0.16	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.15	1.67	< 0.005	0.01	—	0.01	0.01	—	0.01	—	279	279	0.01	< 0.005	—	280
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.72	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	258	258	< 0.005	< 0.005	0.14	259
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	98.6	98.6	< 0.005	0.02	0.03	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.55	0.00	0.00	0.29	0.29	0.00	0.07	0.07	—	238	238	< 0.005	< 0.005	< 0.005	238
Vendor	0.01	< 0.005	0.11	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	98.7	98.7	< 0.005	0.02	< 0.005	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	57.4	57.4	< 0.005	< 0.005	0.01	57.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	< 0.005	< 0.005	< 0.005	24.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	—	9.50	9.50	< 0.005	< 0.005	< 0.005	9.52
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.89	3.89	< 0.005	< 0.005	< 0.005	4.08
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Grading (2041) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.5	53.7	98.5	0.34	2.20	—	2.20	2.02	—	2.02	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.5	10.5	53.7	98.5	0.34	2.20	—	2.20	2.02	—	2.02	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	5.97	5.01	25.6	47.0	0.16	1.05	—	1.05	0.97	—	0.97	—	17,794	17,794	0.72	0.14	—	17,855
Dust From Material Movement	—	—	—	—	—	—	3.87	3.87	—	1.08	1.08	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.09	0.91	4.68	8.58	0.03	0.19	—	0.19	0.18	—	0.18	—	2,946	2,946	0.12	0.02	—	2,956
Dust From Material Movement	—	—	—	—	—	—	0.71	0.71	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	2.17	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	775	775	< 0.005	< 0.005	0.43	777
Vendor	0.02	0.01	0.32	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	315	315	0.01	0.05	0.11	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	1.64	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	714	714	0.01	< 0.005	0.01	715
Vendor	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	316	316	0.01	0.05	< 0.005	331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.82	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	345	345	< 0.005	< 0.005	0.09	346
Vendor	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	151	151	< 0.005	0.02	0.02	158
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	57.1	57.1	< 0.005	< 0.005	0.01	57.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.9	24.9	< 0.005	< 0.005	< 0.005	26.1

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Grading (2041) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.71	1.71	9.06	90.1	0.16	0.34	—	0.34	0.34	—	0.34	—	17,794	17,794	0.72	0.14	—	17,855

Dust From Material Movement	—	—	—	—	—	—	3.87	3.87	—	1.08	1.08	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	0.31	1.65	16.4	0.03	0.06	—	0.06	0.06	—	0.06	—	2,946	2,946	0.12	0.02	—	2,956
Dust From Material Movement	—	—	—	—	—	—	0.71	0.71	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	2.17	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	775	775	< 0.005	< 0.005	0.43	777
Vendor	0.02	0.01	0.32	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	315	315	0.01	0.05	0.11	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	1.64	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	714	714	0.01	< 0.005	0.01	715
Vendor	0.02	0.01	0.34	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	316	316	0.01	0.05	< 0.005	331
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.82	0.00	0.00	0.41	0.41	0.00	0.10	0.10	—	345	345	< 0.005	< 0.005	0.09	346
Vendor	0.01	< 0.005	0.16	0.06	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	151	151	< 0.005	0.02	0.02	158
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	57.1	57.1	< 0.005	< 0.005	0.01	57.2
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.9	24.9	< 0.005	< 0.005	< 0.005	26.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2042) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.4	10.4	52.0	96.6	0.34	2.12	—	2.12	1.95	—	1.95	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	12.4	10.4	52.0	96.6	0.34	2.12	—	2.12	1.95	—	1.95	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	3.70	3.11	15.6	28.9	0.10	0.63	—	0.63	0.58	—	0.58	—	11,158	11,158	0.45	0.09	—	11,196
Dust From Material Movement	—	—	—	—	—	—	2.42	2.42	—	0.68	0.68	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.57	2.84	5.28	0.02	0.12	—	0.12	0.11	—	0.11	—	1,847	1,847	0.07	0.01	—	1,854
Dust From Material Movement	—	—	—	—	—	—	0.44	0.44	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	2.14	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	771	771	< 0.005	< 0.005	0.36	773
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	310	310	0.01	0.05	0.09	324
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	1.60	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	710	710	0.01	< 0.005	0.01	712
Vendor	0.02	0.01	0.33	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	310	310	0.01	0.05	< 0.005	325
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.50	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	215	215	< 0.005	< 0.005	0.05	216

Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.01	97.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.01	35.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	< 0.005	16.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2042) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.58	3.57	19.0	189	0.34	0.71	—	0.71	0.71	—	0.71	—	37,266	37,266	1.51	0.30	—	37,394
Dust From Material Movement	—	—	—	—	—	—	8.09	8.09	—	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	1.07	1.07	5.68	56.5	0.10	0.21	—	0.21	0.21	—	0.21	—	11,158	11,158	0.45	0.09	—	11,196
Dust From Material Movement	—	—	—	—	—	—	2.42	2.42	—	0.68	0.68	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	0.20	1.04	10.3	0.02	0.04	—	0.04	0.04	—	0.04	—	1,847	1,847	0.07	0.01	—	1,854
Dust From Material Movement	—	—	—	—	—	—	0.44	0.44	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	2.14	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	771	771	< 0.005	< 0.005	0.36	773
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	310	310	0.01	0.05	0.09	324
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.10	0.08	1.60	0.00	0.00	0.88	0.88	0.00	0.21	0.21	—	710	710	0.01	< 0.005	0.01	712
Vendor	0.02	0.01	0.33	0.13	< 0.005	< 0.005	0.13	0.14	< 0.005	0.04	0.04	—	310	310	0.01	0.05	< 0.005	325

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.02	0.50	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	215	215	< 0.005	< 0.005	0.05	216
Vendor	0.01	< 0.005	0.10	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	92.7	92.7	< 0.005	0.01	0.01	97.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.09	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	35.6	35.6	< 0.005	< 0.005	0.01	35.7
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	15.4	15.4	< 0.005	< 0.005	< 0.005	16.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2042) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.83	15.4	29.6	0.06	0.31	—	0.31	0.28	—	0.28	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.19	1.83	15.4	29.6	0.06	0.31	—	0.31	0.28	—	0.28	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.91	0.76	6.39	12.3	0.02	0.13	—	0.13	0.12	—	0.12	—	2,365	2,365	0.10	0.02	—	2,373
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	0.14	1.17	2.24	< 0.005	0.02	—	0.02	0.02	—	0.02	—	392	392	0.02	< 0.005	—	393
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.57	0.46	12.6	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,538	4,538	0.03	0.03	2.13	4,549
Vendor	0.06	0.03	1.00	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	987	987	0.02	0.16	0.28	1,034
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.56	0.47	9.42	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,180	4,180	0.04	0.03	0.06	4,188
Vendor	0.05	0.03	1.05	0.42	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	988	988	0.02	0.16	0.01	1,035
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.23	0.20	4.11	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,756	1,756	0.01	0.01	0.38	1,760
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	—	410	410	0.01	0.07	0.05	429
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.04	0.75	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	291	291	< 0.005	< 0.005	0.06	291
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	67.8	67.8	< 0.005	0.01	0.01	71.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2042) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.38	2.62	14.8	0.02	0.07	—	0.07	0.07	—	0.07	—	2,365	2,365	0.10	0.02	—	2,373
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.48	2.70	< 0.005	0.01	—	0.01	0.01	—	0.01	—	392	392	0.02	< 0.005	—	393
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.57	0.46	12.6	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,538	4,538	0.03	0.03	2.13	4,549
Vendor	0.06	0.03	1.00	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	987	987	0.02	0.16	0.28	1,034
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.74	0.56	0.47	9.42	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,180	4,180	0.04	0.03	0.06	4,188
Vendor	0.05	0.03	1.05	0.42	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	988	988	0.02	0.16	0.01	1,035
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.31	0.23	0.20	4.11	0.00	0.00	2.12	2.12	0.00	0.50	0.50	—	1,756	1,756	0.01	0.01	0.38	1,760
Vendor	0.02	0.01	0.43	0.17	< 0.005	< 0.005	0.17	0.18	< 0.005	0.05	0.05	—	410	410	0.01	0.07	0.05	429
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.04	0.75	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	291	291	< 0.005	< 0.005	0.06	291
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	67.8	67.8	< 0.005	0.01	0.01	71.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2043) - Unmitigated

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

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

Off-Road Equipment	2.18	1.82	15.3	29.5	0.06	0.30	—	0.30	0.27	—	0.27	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.18	1.82	15.3	29.5	0.06	0.30	—	0.30	0.27	—	0.27	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.55	1.30	10.9	21.1	0.04	0.21	—	0.21	0.19	—	0.19	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	1.99	3.85	0.01	0.04	—	0.04	0.04	—	0.04	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.56	0.46	12.3	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,519	4,519	0.03	0.03	1.81	4,529
Vendor	0.06	0.03	0.99	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	970	970	0.02	0.15	0.22	1,015
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.55	0.47	9.22	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,162	4,162	0.04	0.03	0.05	4,171

Vendor	0.05	0.03	1.05	0.42	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	972	972	0.02	0.15	0.01	1,016
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	0.40	0.39	0.34	6.94	0.00	0.00	3.65	3.65	0.00	0.85	0.85	—	3,010	3,010	0.03	0.02	0.56	3,017
Vendor	0.04	0.02	0.74	0.30	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	694	694	0.02	0.10	0.07	725
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.27	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	498	498	< 0.005	< 0.005	0.09	499
Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2043) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.51	25.5	0.04	0.12	—	0.12	0.12	—	0.12	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.12	0.82	4.65	0.01	0.02	—	0.02	0.02	—	0.02	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.73	0.56	0.46	12.3	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,519	4,519	0.03	0.03	1.81	4,529
Vendor	0.06	0.03	0.99	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	970	970	0.02	0.15	0.22	1,015
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.56	0.55	0.47	9.22	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,162	4,162	0.04	0.03	0.05	4,171
Vendor	0.05	0.03	1.05	0.42	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	972	972	0.02	0.15	0.01	1,016
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	0.40	0.39	0.34	6.94	0.00	0.00	3.65	3.65	0.00	0.85	0.85	—	3,010	3,010	0.03	0.02	0.56	3,017
Vendor	0.04	0.02	0.74	0.30	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	694	694	0.02	0.10	0.07	725
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.27	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	498	498	< 0.005	< 0.005	0.09	499

Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	115	115	< 0.005	0.02	0.01	120
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2044) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.80	15.1	29.4	0.06	0.28	—	0.28	0.26	—	0.26	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.16	1.80	15.1	29.4	0.06	0.28	—	0.28	0.26	—	0.26	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.54	1.29	10.8	21.1	0.04	0.20	—	0.20	0.19	—	0.19	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.24	1.98	3.85	0.01	0.04	—	0.04	0.03	—	0.03	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.54	0.46	12.1	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,503	4,503	0.03	0.03	1.54	4,513
Vendor	0.06	0.03	0.98	0.40	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	956	956	0.02	0.15	0.18	1,000
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.53	0.47	9.03	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,147	4,147	0.03	0.03	0.04	4,156
Vendor	0.05	0.03	1.04	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	958	958	0.02	0.15	< 0.005	1,002
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.38	0.34	6.83	0.00	0.00	3.66	3.66	0.00	0.86	0.86	—	3,007	3,007	0.02	0.02	0.47	3,014
Vendor	0.04	0.02	0.74	0.29	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	685	685	0.02	0.10	0.06	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.25	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	498	498	< 0.005	< 0.005	0.08	499
Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	113	113	< 0.005	0.02	0.01	119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2044) - Mitigated

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

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

Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.52	25.5	0.04	0.12	—	0.12	0.12	—	0.12	—	4,084	4,084	0.17	0.03	—	4,098
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.12	0.83	4.66	0.01	0.02	—	0.02	0.02	—	0.02	—	676	676	0.03	0.01	—	678
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.54	0.46	12.1	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,503	4,503	0.03	0.03	1.54	4,513
Vendor	0.06	0.03	0.98	0.40	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	956	956	0.02	0.15	0.18	1,000
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.53	0.47	9.03	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,147	4,147	0.03	0.03	0.04	4,156

Vendor	0.05	0.03	1.04	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	958	958	0.02	0.15	< 0.005	1,002
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.38	0.34	6.83	0.00	0.00	3.66	3.66	0.00	0.86	0.86	—	3,007	3,007	0.02	0.02	0.47	3,014
Vendor	0.04	0.02	0.74	0.29	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	685	685	0.02	0.10	0.06	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.25	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	498	498	< 0.005	< 0.005	0.08	499
Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	113	113	< 0.005	0.02	0.01	119
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.14	1.79	15.0	29.2	0.06	0.27	—	0.27	0.25	—	0.25	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.14	1.79	15.0	29.2	0.06	0.27	—	0.27	0.25	—	0.25	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.53	1.28	10.7	20.9	0.04	0.19	—	0.19	0.18	—	0.18	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.23	1.95	3.81	0.01	0.04	—	0.04	0.03	—	0.03	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.53	0.46	12.0	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,488	4,488	0.03	0.02	1.30	4,495
Vendor	0.06	0.03	0.97	0.40	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	944	944	0.02	0.15	0.15	988
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.53	0.46	9.02	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,134	4,134	0.03	0.03	0.03	4,143
Vendor	0.05	0.03	1.02	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	946	946	0.02	0.15	< 0.005	990
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.37	0.34	6.79	0.00	0.00	3.65	3.65	0.00	0.85	0.85	—	2,990	2,990	0.02	0.02	0.40	2,996
Vendor	0.04	0.02	0.73	0.29	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	675	675	0.02	0.10	0.05	706
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.24	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	495	495	< 0.005	< 0.005	0.07	496

Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	112	112	< 0.005	0.02	0.01	117
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2045) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.01	0.92	6.31	35.7	0.06	0.17	—	0.17	0.16	—	0.16	—	5,701	5,701	0.23	0.05	—	5,721
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	0.66	4.51	25.5	0.04	0.12	—	0.12	0.12	—	0.12	—	4,072	4,072	0.17	0.03	—	4,086
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.12	0.82	4.65	0.01	0.02	—	0.02	0.02	—	0.02	—	674	674	0.03	0.01	—	677
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.53	0.46	12.0	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,488	4,488	0.03	0.02	1.30	4,495
Vendor	0.06	0.03	0.97	0.40	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	944	944	0.02	0.15	0.15	988
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.53	0.53	0.46	9.02	0.00	0.00	5.19	5.19	0.00	1.22	1.22	—	4,134	4,134	0.03	0.03	0.03	4,143
Vendor	0.05	0.03	1.02	0.41	0.01	0.01	0.42	0.44	0.01	0.12	0.13	—	946	946	0.02	0.15	< 0.005	990
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.37	0.34	6.79	0.00	0.00	3.65	3.65	0.00	0.85	0.85	—	2,990	2,990	0.02	0.02	0.40	2,996
Vendor	0.04	0.02	0.73	0.29	0.01	0.01	0.30	0.31	0.01	0.09	0.09	—	675	675	0.02	0.10	0.05	706
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.24	0.00	0.00	0.67	0.67	0.00	0.16	0.16	—	495	495	< 0.005	< 0.005	0.07	496
Vendor	0.01	< 0.005	0.13	0.05	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	112	112	< 0.005	0.02	0.01	117
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2044) - Unmitigated

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

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

Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.55	0.46	5.11	9.72	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	2.14	4.07	0.01	0.04	—	0.04	0.03	—	0.03	—	633	633	0.03	0.01	—	635
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.39	0.74	< 0.005	0.01	—	0.01	0.01	—	0.01	—	105	105	< 0.005	< 0.005	—	105
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.06	170
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	413	413	0.01	0.06	0.08	432

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	157	157	< 0.005	< 0.005	< 0.005	157
Vendor	0.02	0.01	0.45	0.18	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	413	413	0.01	0.06	< 0.005	432
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	66.4	66.4	< 0.005	< 0.005	0.01	66.5
Vendor	0.01	0.01	0.19	0.07	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	173	173	< 0.005	0.03	0.01	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.6	28.6	< 0.005	< 0.005	< 0.005	29.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Paving (2044) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.28	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	0.11	0.88	4.38	0.01	0.02	—	0.02	0.02	—	0.02	—	633	633	0.03	0.01	—	635
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.16	0.80	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	105	105	< 0.005	< 0.005	—	105
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.46	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	170	170	< 0.005	< 0.005	0.06	170
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	413	413	0.01	0.06	0.08	432
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	157	157	< 0.005	< 0.005	< 0.005	157

Vendor	0.02	0.01	0.45	0.18	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	413	413	0.01	0.06	< 0.005	432
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	66.4	66.4	< 0.005	< 0.005	0.01	66.5
Vendor	0.01	0.01	0.19	0.07	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	173	173	< 0.005	0.03	0.01	181
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	< 0.005	11.0
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28.6	28.6	< 0.005	< 0.005	< 0.005	29.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	0.45	5.07	9.71	0.01	0.08	—	0.08	0.07	—	0.07	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.38	0.32	3.62	6.94	0.01	0.05	—	0.05	0.05	—	0.05	—	1,079	1,079	0.04	0.01	—	1,083
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.06	0.66	1.27	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.45	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	169	169	< 0.005	< 0.005	0.05	170
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	407	407	0.01	0.06	0.06	426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	156	156	< 0.005	< 0.005	< 0.005	156
Vendor	0.02	0.01	0.44	0.18	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	408	408	0.01	0.06	< 0.005	427
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.26	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	113	113	< 0.005	< 0.005	0.02	113
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	291	291	0.01	0.04	0.02	305

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	18.7	18.7	< 0.005	< 0.005	< 0.005	18.7
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.2	48.2	< 0.005	0.01	< 0.005	50.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Paving (2045) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	0.25	2.09	10.5	0.01	0.04	—	0.04	0.04	—	0.04	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	0.18	1.49	7.47	0.01	0.03	—	0.03	0.03	—	0.03	—	1,079	1,079	0.04	0.01	—	1,083
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.27	1.36	< 0.005	0.01	—	0.01	0.01	—	0.01	—	179	179	0.01	< 0.005	—	179
Paving	—	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.45	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	169	169	< 0.005	< 0.005	0.05	170
Vendor	0.02	0.01	0.42	0.17	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	407	407	0.01	0.06	0.06	426
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.34	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	156	156	< 0.005	< 0.005	< 0.005	156
Vendor	0.02	0.01	0.44	0.18	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	—	408	408	0.01	0.06	< 0.005	427
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.26	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	113	113	< 0.005	< 0.005	0.02	113
Vendor	0.02	0.01	0.31	0.13	< 0.005	< 0.005	0.13	0.13	< 0.005	0.04	0.04	—	291	291	0.01	0.04	0.02	305
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	18.7	18.7	< 0.005	< 0.005	< 0.005	18.7
Vendor	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	48.2	48.2	< 0.005	0.01	< 0.005	50.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2044) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	20.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	20.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	8.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	1.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	2.41	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	901	901	0.01	0.01	0.31	903
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.81	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	829	829	0.01	0.01	0.01	831
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	352	352	< 0.005	< 0.005	0.06	352
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	58.2	58.2	< 0.005	< 0.005	0.01	58.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.20. Architectural Coating (2044) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.41	0.61	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	74.6	74.6	< 0.005	< 0.005	—	74.8
Architectural Coatings	—	1.74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.3	12.3	< 0.005	< 0.005	—	12.4
Architectural Coatings	—	0.32	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.11	0.09	2.41	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	901	901	0.01	0.01	0.31	903
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.81	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	829	829	0.01	0.01	0.01	831
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.80	0.00	0.00	0.43	0.43	0.00	0.10	0.10	—	352	352	< 0.005	< 0.005	0.06	352
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	58.2	58.2	< 0.005	< 0.005	0.01	58.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Architectural Coating (2045) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	20.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	20.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.71	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	127	127	0.01	< 0.005	—	128
Architectural Coatings	—	14.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Architectural Coatings	—	2.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	2.41	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	898	898	0.01	< 0.005	0.26	899
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.80	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	827	827	0.01	0.01	0.01	829
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.36	0.00	0.00	0.73	0.73	0.00	0.17	0.17	—	598	598	< 0.005	< 0.005	0.08	599
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.25	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	99.0	99.0	< 0.005	< 0.005	0.01	99.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.22. Architectural Coating (2045) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.12	0.99	1.46	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	—	4.15	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	0.08	0.71	1.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	127	127	0.01	< 0.005	—	128
Architectural Coatings	—	2.96	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.02	0.02	0.13	0.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Architectural Coatings	—	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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	2.41	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	898	898	0.01	< 0.005	0.26	899
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.11	0.09	1.80	0.00	0.00	1.04	1.04	0.00	0.24	0.24	—	827	827	0.01	0.01	0.01	829
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	1.36	0.00	0.00	0.73	0.73	0.00	0.17	0.17	—	598	598	< 0.005	< 0.005	0.08	599
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.25	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	99.0	99.0	< 0.005	< 0.005	0.01	99.2
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	1/1/2041	5/1/2041	5.00	87.0	—
Grading	Grading	5/2/2041	6/2/2042	5.00	283	—
Building Construction	Building Construction	6/3/2042	12/31/2045	5.00	934	—
Paving	Paving	6/1/2044	12/31/2045	5.00	413	—
Architectural Coating	Architectural Coating	6/1/2044	12/31/2045	5.00	413	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Average	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Average	2.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Average	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Average	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Average	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	7.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	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	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Crawler Tractors	Diesel	Tier 4 Final	5.00	8.00	87.0	0.43
Site Preparation	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Final	2.00	8.00	148	0.41

Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 4 Final	14.0	8.00	423	0.48
Grading	Crawler Tractors	Diesel	Tier 4 Final	4.00	8.00	87.0	0.43
Grading	Off-Highway Trucks	Diesel	Tier 4 Final	4.00	8.00	376	0.38
Building Construction	Cranes	Diesel	Tier 4 Final	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Final	7.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	7.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	5.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	16.0	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	397	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	51.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	22.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	79.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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
Site Preparation	—	—	—	—
Site Preparation	Worker	22.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	5.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	67.5	18.5	LDA,LDT1,LDT2
Grading	Vendor	16.0	10.2	HHDT,MHDT

Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	397	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	51.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	22.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	79.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	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	2,694,445	898,148	75,243	25,081	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	—	—	218	0.00	—
Grading	—	—	5,094	0.00	—
Paving	0.00	0.00	0.00	0.00	6.03

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	6.03	0%
Apartments Low Rise	—	0%
Elementary School	0.00	0%
City Park	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2041	0.00	532	0.03	< 0.005
2042	0.00	532	0.03	< 0.005
2043	0.00	532	0.03	< 0.005
2044	0.00	532	0.03	< 0.005

2045	0.00	532	0.03	< 0.005

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129

Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0

Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule adjusted based on data from the Project team.
Construction: Off-Road Equipment	All equipment will operate 8 hours per day. Crawler tractors assumed in lieu of tractors/loaders/backhoes during site preparation and grading in order to account for fugitive dust.
Construction: Trips and VMT	Vendor trips assigned to site preparation, grading, building construction, and paving based on the duration of each phase.
Construction: Architectural Coatings	Rule 1113

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APPENDIX 3.2:

CALEEMOD PROJECT REGIONAL OPERATIONAL EMISSIONS MODEL OUTPUTS

15218 Mesa Verde Ph1 Ops HCCS Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph1 Ops HCCS
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.996623456155106, -117.07438392497613
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	700	1000sqft	16.1	700,000	282,661	—	—	—
City Park	12.7	Acre	12.7	0.00	553,212	553,212	—	—

Government (Civic Center)	16.5	1000sqft	0.38	16,500	32,322	—	—	Fire Station/Public Works
Single Family Housing	709	Dwelling Unit	230	1,382,550	8,304,416	—	2,290	—
Apartments Low Rise	185	Dwelling Unit	11.6	196,100	61,594	—	598	—
User Defined Industrial	1,400	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	47.6	Acre	47.6	0.00	0.00	—	—	—
Refrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	282,661	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures

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.	138	133	123	429	1.62	2.60	103	106	2.46	26.6	29.1	1,994	195,307	197,301	209	19.3	1,193	209,466
Mit.	138	133	123	429	1.62	2.60	103	106	2.46	26.6	29.1	1,987	195,120	197,107	208	19.3	1,193	209,250
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	120	116	127	279	1.57	2.46	103	105	2.36	26.6	29.0	1,994	190,434	192,428	209	19.4	800	204,238
Mit.	120	116	127	279	1.57	2.46	103	105	2.36	26.6	29.0	1,987	190,247	192,234	208	19.4	800	204,022
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	123	119	109	332	1.42	2.04	91.7	93.7	1.93	23.7	25.6	1,994	173,814	175,808	209	17.6	946	187,211
Mit.	123	119	109	332	1.42	2.04	91.7	93.7	1.93	23.7	25.6	1,987	173,627	175,615	208	17.6	946	186,995
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	22.5	21.6	20.0	60.6	0.26	0.37	16.7	17.1	0.35	4.33	4.68	330	28,777	29,107	34.5	2.91	157	30,995
Mit.	22.5	21.6	20.0	60.6	0.26	0.37	16.7	17.1	0.35	4.33	4.68	329	28,746	29,075	34.4	2.91	157	30,959
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	49.1	44.7	113	311	1.61	2.13	103	105	2.02	26.6	28.6	—	168,388	168,388	4.54	17.2	404	174,031
Area	86.6	85.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,863	22,863	2.89	0.35	—	23,039
Water	—	—	—	—	—	—	—	—	—	—	—	696	2,492	3,188	71.7	1.73	—	5,498
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Total	138	133	123	429	1.62	2.60	103	106	2.46	26.6	29.1	1,994	195,307	197,301	209	19.3	1,193	209,466
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.8	42.2	119	273	1.56	2.13	103	105	2.03	26.6	28.6	—	163,904	163,904	4.72	17.3	10.5	169,193
Area	71.0	71.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,863	22,863	2.89	0.35	—	23,039
Water	—	—	—	—	—	—	—	—	—	—	—	696	2,492	3,188	71.7	1.73	—	5,498
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Total	120	116	127	279	1.57	2.46	103	105	2.36	26.6	29.0	1,994	190,434	192,428	209	19.4	800	204,238
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.4	37.3	108	254	1.41	1.90	91.7	93.6	1.81	23.7	25.5	—	148,032	148,032	4.24	15.5	157	152,917
Area	81.7	81.0	0.68	77.1	< 0.005	0.09	—	0.09	0.07	—	0.07	—	266	266	0.01	< 0.005	—	267
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,863	22,863	2.89	0.35	—	23,039
Water	—	—	—	—	—	—	—	—	—	—	—	696	2,492	3,188	71.7	1.73	—	5,498
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	0.35	0.31	1.18	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	161	161	0.01	< 0.005	0.00	162
Total	123	119	109	332	1.42	2.04	91.7	93.7	1.93	23.7	25.6	1,994	173,814	175,808	209	17.6	946	187,211
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.55	6.81	19.6	46.3	0.26	0.35	16.7	17.1	0.33	4.33	4.66	—	24,508	24,508	0.70	2.57	26.0	25,317
Area	14.9	14.8	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,785	3,785	0.48	0.06	—	3,814

Water	—	—	—	—	—	—	—	—	—	—	—	115	413	528	11.9	0.29	—	910
Waste	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	751
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
Stationary	0.06	0.06	0.22	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	26.7	26.7	< 0.005	< 0.005	0.00	26.7
Total	22.5	21.6	20.0	60.6	0.26	0.37	16.7	17.1	0.35	4.33	4.68	330	28,777	29,107	34.5	2.91	157	30,995

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	49.1	44.7	113	311	1.61	2.13	103	105	2.02	26.6	28.6	—	168,388	168,388	4.54	17.2	404	174,031
Area	86.6	85.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,692	22,692	2.87	0.35	—	22,868
Water	—	—	—	—	—	—	—	—	—	—	—	690	2,476	3,165	71.1	1.72	—	5,454
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Total	138	133	123	429	1.62	2.60	103	106	2.46	26.6	29.1	1,987	195,120	197,107	208	19.3	1,193	209,250
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46.8	42.2	119	273	1.56	2.13	103	105	2.03	26.6	28.6	—	163,904	163,904	4.72	17.3	10.5	169,193
Area	71.0	71.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,692	22,692	2.87	0.35	—	22,868
Water	—	—	—	—	—	—	—	—	—	—	—	690	2,476	3,165	71.1	1.72	—	5,454
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Total	120	116	127	279	1.57	2.46	103	105	2.36	26.6	29.0	1,987	190,247	192,234	208	19.4	800	204,022
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.4	37.3	108	254	1.41	1.90	91.7	93.6	1.81	23.7	25.5	—	148,032	148,032	4.24	15.5	157	152,917
Area	81.7	81.0	0.68	77.1	< 0.005	0.09	—	0.09	0.07	—	0.07	—	266	266	0.01	< 0.005	—	267
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	22,692	22,692	2.87	0.35	—	22,868
Water	—	—	—	—	—	—	—	—	—	—	—	690	2,476	3,165	71.1	1.72	—	5,454
Waste	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Stationary	0.35	0.31	1.18	0.80	< 0.005	0.05	0.00	0.05	0.05	0.00	0.05	0.00	161	161	0.01	< 0.005	0.00	162
Total	123	119	109	332	1.42	2.04	91.7	93.7	1.93	23.7	25.6	1,987	173,627	175,615	208	17.6	946	186,995
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.55	6.81	19.6	46.3	0.26	0.35	16.7	17.1	0.33	4.33	4.66	—	24,508	24,508	0.70	2.57	26.0	25,317
Area	14.9	14.8	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,757	3,757	0.48	0.06	—	3,786
Water	—	—	—	—	—	—	—	—	—	—	—	114	410	524	11.8	0.28	—	903
Waste	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	751
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
Stationary	0.06	0.06	0.22	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	26.7	26.7	< 0.005	< 0.005	0.00	26.7
Total	22.5	21.6	20.0	60.6	0.26	0.37	16.7	17.1	0.35	4.33	4.68	329	28,746	29,075	34.4	2.91	157	30,959

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	9.69	9.13	3.49	70.4	0.15	0.06	16.1	16.2	0.06	4.07	4.12	—	15,671	15,671	0.63	0.43	32.9	15,847
City Park	5.36	5.12	2.62	22.9	0.05	0.04	4.53	4.56	0.03	1.15	1.18	—	5,126	5,126	0.31	0.28	11.5	5,230
Government (Civic Center)	0.38	0.35	0.25	2.41	0.01	< 0.005	0.58	0.59	< 0.005	0.15	0.15	—	638	638	0.03	0.03	1.47	649
Single Family Housing	22.3	20.8	14.6	139	0.36	0.24	33.4	33.6	0.22	8.47	8.69	—	36,648	36,648	1.58	1.69	84.5	37,276
Apartments Low Rise	4.58	4.28	3.00	28.6	0.07	0.05	6.85	6.90	0.05	1.74	1.78	—	7,528	7,528	0.32	0.35	17.4	7,657
User Defined Industrial	3.93	2.23	88.1	26.4	0.92	1.72	36.7	38.4	1.65	9.83	11.5	—	98,127	98,127	1.48	14.3	246	102,670
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	2.88	2.71	1.04	20.9	0.05	0.02	4.78	4.80	0.02	1.21	1.22	—	4,650	4,650	0.19	0.13	9.76	4,703
Total	49.1	44.7	113	311	1.61	2.13	103	105	2.02	26.6	28.6	—	168,388	168,388	4.54	17.2	404	174,031
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	9.29	8.71	3.83	60.4	0.14	0.06	16.1	16.2	0.06	4.07	4.12	—	14,499	14,499	0.67	0.45	0.85	14,652
City Park	5.05	4.80	2.80	21.0	0.05	0.04	4.53	4.56	0.03	1.15	1.18	—	4,830	4,830	0.33	0.29	0.30	4,926
Government (Civic Center)	0.36	0.33	0.27	2.08	0.01	< 0.005	0.58	0.59	< 0.005	0.15	0.15	—	599	599	0.03	0.03	0.04	609
Single Family Housing	21.1	19.6	15.6	121	0.34	0.24	33.4	33.6	0.22	8.47	8.69	—	34,453	34,453	1.66	1.74	2.19	35,017
Apartments Low Rise	4.33	4.03	3.21	24.8	0.07	0.05	6.85	6.90	0.05	1.74	1.78	—	7,077	7,077	0.34	0.36	0.45	7,193
User Defined Industrial	3.88	2.19	92.0	26.4	0.92	1.72	36.7	38.4	1.65	9.83	11.5	—	98,142	98,142	1.48	14.3	6.38	102,448
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	2.76	2.59	1.14	17.9	0.04	0.02	4.78	4.80	0.02	1.21	1.22	—	4,303	4,303	0.20	0.13	0.25	4,348
Total	46.8	42.2	119	273	1.56	2.13	103	105	2.03	26.6	28.6	—	163,904	163,904	4.72	17.3	10.5	169,193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	1.58	1.48	0.68	10.8	0.02	0.01	2.73	2.74	0.01	0.69	0.70	—	2,294	2,294	0.11	0.07	2.22	2,320
City Park	0.48	0.45	0.27	2.07	< 0.005	< 0.005	0.43	0.43	< 0.005	0.11	0.11	—	424	424	0.03	0.03	0.43	432
Government (Civic Center)	0.06	0.06	0.05	0.39	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	100	100	< 0.005	0.01	0.11	102

Single Family Housing	3.73	3.46	2.82	22.2	0.06	0.04	5.85	5.90	0.04	1.49	1.53	—	5,628	5,628	0.27	0.28	5.91	5,726
Apartments Low Rise	0.70	0.65	0.53	4.18	0.01	0.01	1.10	1.11	0.01	0.28	0.29	—	1,059	1,059	0.05	0.05	1.11	1,077
User Defined Industrial	0.63	0.36	15.1	4.27	0.15	0.28	5.89	6.17	0.27	1.58	1.85	—	14,477	14,477	0.22	2.11	15.7	15,127
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	0.36	0.34	0.16	2.47	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	526	526	0.02	0.02	0.51	532
Total	7.55	6.81	19.6	46.3	0.26	0.35	16.7	17.1	0.33	4.33	4.66	—	24,508	24,508	0.70	2.57	26.0	25,317

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	9.69	9.13	3.49	70.4	0.15	0.06	16.1	16.2	0.06	4.07	4.12	—	15,671	15,671	0.63	0.43	32.9	15,847
City Park	5.36	5.12	2.62	22.9	0.05	0.04	4.53	4.56	0.03	1.15	1.18	—	5,126	5,126	0.31	0.28	11.5	5,230
Government (Civic Center)	0.38	0.35	0.25	2.41	0.01	< 0.005	0.58	0.59	< 0.005	0.15	0.15	—	638	638	0.03	0.03	1.47	649

Single Family Housing	22.3	20.8	14.6	139	0.36	0.24	33.4	33.6	0.22	8.47	8.69	—	36,648	36,648	1.58	1.69	84.5	37,276
Apartments Low Rise	4.58	4.28	3.00	28.6	0.07	0.05	6.85	6.90	0.05	1.74	1.78	—	7,528	7,528	0.32	0.35	17.4	7,657
User Defined Industrial	3.93	2.23	88.1	26.4	0.92	1.72	36.7	38.4	1.65	9.83	11.5	—	98,127	98,127	1.48	14.3	246	102,670
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	2.88	2.71	1.04	20.9	0.05	0.02	4.78	4.80	0.02	1.21	1.22	—	4,650	4,650	0.19	0.13	9.76	4,703
Total	49.1	44.7	113	311	1.61	2.13	103	105	2.02	26.6	28.6	—	168,388	168,388	4.54	17.2	404	174,031
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	9.29	8.71	3.83	60.4	0.14	0.06	16.1	16.2	0.06	4.07	4.12	—	14,499	14,499	0.67	0.45	0.85	14,652
City Park	5.05	4.80	2.80	21.0	0.05	0.04	4.53	4.56	0.03	1.15	1.18	—	4,830	4,830	0.33	0.29	0.30	4,926
Government (Civic Center)	0.36	0.33	0.27	2.08	0.01	< 0.005	0.58	0.59	< 0.005	0.15	0.15	—	599	599	0.03	0.03	0.04	609
Single Family Housing	21.1	19.6	15.6	121	0.34	0.24	33.4	33.6	0.22	8.47	8.69	—	34,453	34,453	1.66	1.74	2.19	35,017
Apartments Low Rise	4.33	4.03	3.21	24.8	0.07	0.05	6.85	6.90	0.05	1.74	1.78	—	7,077	7,077	0.34	0.36	0.45	7,193
User Defined Industrial	3.88	2.19	92.0	26.4	0.92	1.72	36.7	38.4	1.65	9.83	11.5	—	98,142	98,142	1.48	14.3	6.38	102,448

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	2.76	2.59	1.14	17.9	0.04	0.02	4.78	4.80	0.02	1.21	1.22	—	4,303	4,303	0.20	0.13	0.25	4,348
Total	46.8	42.2	119	273	1.56	2.13	103	105	2.03	26.6	28.6	—	163,904	163,904	4.72	17.3	10.5	169,193
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	1.58	1.48	0.68	10.8	0.02	0.01	2.73	2.74	0.01	0.69	0.70	—	2,294	2,294	0.11	0.07	2.22	2,320
City Park	0.48	0.45	0.27	2.07	< 0.005	< 0.005	0.43	0.43	< 0.005	0.11	0.11	—	424	424	0.03	0.03	0.43	432
Government (Civic Center)	0.06	0.06	0.05	0.39	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	100	100	< 0.005	0.01	0.11	102
Single Family Housing	3.73	3.46	2.82	22.2	0.06	0.04	5.85	5.90	0.04	1.49	1.53	—	5,628	5,628	0.27	0.28	5.91	5,726
Apartments Low Rise	0.70	0.65	0.53	4.18	0.01	0.01	1.10	1.11	0.01	0.28	0.29	—	1,059	1,059	0.05	0.05	1.11	1,077
User Defined Industrial	0.63	0.36	15.1	4.27	0.15	0.28	5.89	6.17	0.27	1.58	1.85	—	14,477	14,477	0.22	2.11	15.7	15,127
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	0.36	0.34	0.16	2.47	0.01	< 0.005	0.63	0.63	< 0.005	0.16	0.16	—	526	526	0.02	0.02	0.51	532
Total	7.55	6.81	19.6	46.3	0.26	0.35	16.7	17.1	0.33	4.33	4.66	—	24,508	24,508	0.70	2.57	26.0	25,317

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	4,786	4,786	0.61	0.07	—	4,823
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,731	4,731	0.60	0.07	—	4,768
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	905	905	0.11	0.01	—	912
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,297	1,297	0.16	0.02	—	1,307
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,863	22,863	2.89	0.35	—	23,039

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	4,786	4,786	0.61	0.07	—	4,823
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,731	4,731	0.60	0.07	—	4,768
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	905	905	0.11	0.01	—	912
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,297	1,297	0.16	0.02	—	1,307
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,863	22,863	2.89	0.35	—	23,039
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	792	792	0.10	0.01	—	798
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	783	783	0.10	0.01	—	789
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	151
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	—	216
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,785	3,785	0.48	0.06	—	3,814

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	4,786	4,786	0.61	0.07	—	4,823
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,593	4,593	0.58	0.07	—	4,628
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.11	0.01	—	879
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,297	1,297	0.16	0.02	—	1,307
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,692	22,692	2.87	0.35	—	22,868
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	4,786	4,786	0.61	0.07	—	4,823
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	4,593	4,593	0.58	0.07	—	4,628

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	873	873	0.11	0.01	—	879
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,297	1,297	0.16	0.02	—	1,307
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	22,692	22,692	2.87	0.35	—	22,868
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	792	792	0.10	0.01	—	798
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	760	760	0.10	0.01	—	766
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	144	144	0.02	< 0.005	—	146
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	—	216

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,757	3,757	0.48	0.06	—	3,786

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Refrigerated Warehouse-No	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	64.6	64.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.46	6.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	15.6	14.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Total	86.6	85.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	64.6	64.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.46	6.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	71.0	71.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.8	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.18	1.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.95	1.81	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3
Total	14.9	14.8	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	64.6	64.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	6.46	6.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	15.6	14.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Total	86.6	85.5	0.99	112	0.01	0.13	—	0.13	0.10	—	0.10	—	389	389	0.02	< 0.005	—	390
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	64.6	64.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.46	6.46	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	71.0	71.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.8	11.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.18	1.18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.95	1.81	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3
Total	14.9	14.8	0.12	14.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	44.1	44.1	< 0.005	< 0.005	—	44.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	73.9	73.9	0.01	< 0.005	—	74.5
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	55.3	750	806	5.76	0.15	—	993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.4	41.1	55.5	1.48	0.04	—	103
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
Total	—	—	—	—	—	—	—	—	—	—	—	696	2,492	3,188	71.7	1.73	—	5,498
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	73.9	73.9	0.01	< 0.005	—	74.5
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	55.3	750	806	5.76	0.15	—	993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	14.4	41.1	55.5	1.48	0.04	—	103
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
Total	—	—	—	—	—	—	—	—	—	—	—	696	2,492	3,188	71.7	1.73	—	5,498
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	354
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.2	12.2	< 0.005	< 0.005	—	12.3
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	9.15	124	133	0.95	0.02	—	164
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.39	6.81	9.20	0.25	0.01	—	17.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	354
Total	—	—	—	—	—	—	—	—	—	—	—	115	413	528	11.9	0.29	—	910

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	73.9	73.9	0.01	< 0.005	—	74.5
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	50.1	737	788	5.23	0.13	—	958
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	13.1	37.7	50.8	1.35	0.03	—	94.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
Total	—	—	—	—	—	—	—	—	—	—	—	690	2,476	3,165	71.1	1.72	—	5,454
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	73.9	73.9	0.01	< 0.005	—	74.5
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	50.1	737	788	5.23	0.13	—	958
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	13.1	37.7	50.8	1.35	0.03	—	94.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	804	1,115	31.9	0.77	—	2,141
Total	—	—	—	—	—	—	—	—	—	—	—	690	2,476	3,165	71.1	1.72	—	5,454
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	354
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	12.2	12.2	< 0.005	< 0.005	—	12.3
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	8.30	122	130	0.87	0.02	—	159
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	2.17	6.25	8.41	0.22	0.01	—	15.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	354
Total	—	—	—	—	—	—	—	—	—	—	—	114	410	524	11.8	0.28	—	903

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	468	0.00	468	46.8	0.00	—	1,637
City Park	—	—	—	—	—	—	—	—	—	—	—	0.59	0.00	0.59	0.06	0.00	—	2.06
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	350	0.00	350	35.0	0.00	—	1,224
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	73.8	0.00	73.8	7.37	0.00	—	258
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	468	0.00	468	46.8	0.00	—	1,637
City Park	—	—	—	—	—	—	—	—	—	—	—	0.59	0.00	0.59	0.06	0.00	—	2.06
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	350	0.00	350	35.0	0.00	—	1,224
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	73.8	0.00	73.8	7.37	0.00	—	258
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	77.4	0.00	77.4	7.74	0.00	—	271
City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	57.9	0.00	57.9	5.79	0.00	—	203
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	751

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	468	0.00	468	46.8	0.00	—	1,637
City Park	—	—	—	—	—	—	—	—	—	—	—	0.59	0.00	0.59	0.06	0.00	—	2.06

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	350	0.00	350	35.0	0.00	—	1,224
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	73.8	0.00	73.8	7.37	0.00	—	258
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	468	0.00	468	46.8	0.00	—	1,637
City Park	—	—	—	—	—	—	—	—	—	—	—	0.59	0.00	0.59	0.06	0.00	—	2.06
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	350	0.00	350	35.0	0.00	—	1,224

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	73.8	0.00	73.8	7.37	0.00	—	258
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	1,297	0.00	1,297	130	0.00	—	4,539
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	77.4	0.00	77.4	7.74	0.00	—	271
City Park	—	—	—	—	—	—	—	—	—	—	—	0.10	0.00	0.10	0.01	0.00	—	0.34
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	57.9	0.00	57.9	5.79	0.00	—	203
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	215	0.00	215	21.5	0.00	—	751

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.5	65.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.85	8.85
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.5	65.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.85	8.85
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.8	10.8
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.47	1.47

Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.5	65.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.85	8.85
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	65.5	65.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.85	8.85
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.26	1.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	789	789
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.8	10.8
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.47	1.47
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21	0.21
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.06	0.06	0.22	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	26.7	26.7	< 0.005	< 0.005	0.00	26.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	2.52	2.30	8.62	5.86	0.01	0.34	0.00	0.34	0.34	0.00	0.34	0.00	1,175	1,175	0.05	0.01	0.00	1,179
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.06	0.06	0.22	0.15	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	26.7	26.7	< 0.005	< 0.005	0.00	26.7

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	3,234	2,623	2,590	1,114,966	23,150	18,775	18,540	7,981,194
City Park	636	1,598	1,786	342,259	2,280	5,728	6,401	1,226,785
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	6,686	6,757	6,056	2,411,174	46,648	47,143	42,250	16,822,944
Apartments Low Rise	1,248	1,388	1,071	453,575	8,707	9,683	7,471	3,164,628
User Defined Industrial	701	441	427	228,125	42,084	26,460	25,620	13,687,500
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	960	77.0	30.8	255,829	6,870	551	220	1,831,282

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	3,234	2,623	2,590	1,114,966	23,150	18,775	18,540	7,981,194
City Park	636	1,598	1,786	342,259	2,280	5,728	6,401	1,226,785
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	6,686	6,757	6,056	2,411,174	46,648	47,143	42,250	16,822,944
Apartments Low Rise	1,248	1,388	1,071	453,575	8,707	9,683	7,471	3,164,628
User Defined Industrial	701	441	427	228,125	42,084	26,460	25,620	13,687,500

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Refrigerated Warehouse-No Rail	960	77.0	30.8	255,829	6,870	551	220	1,831,282

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
3196766.25	1,065,589	2,124,750	708,250	124,355

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)
General Light Industry	6,698,350	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	6,621,524	261	0.0330	0.0040	0.00
Apartments Low Rise	1,266,656	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	1,815,584	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	6,698,350	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	6,428,105	261	0.0330	0.0040	0.00
Apartments Low Rise	1,221,313	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	1,815,584	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	161,875,000	4,481,791
City Park	0.00	19,492,377
Government (Civic Center)	3,277,885	512,488
Single Family Housing	28,837,706	160,932,957
Apartments Low Rise	7,524,648	1,193,643
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Refrigerated Warehouse-No Rail	161,875,000	4,481,791

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	161,875,000	4,481,791
City Park	0.00	19,492,377
Government (Civic Center)	3,277,885	512,488
Single Family Housing	26,164,451	160,932,957
Apartments Low Rise	6,827,113	1,193,643
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Refrigerated Warehouse-No Rail	161,875,000	4,481,791

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	868	—

City Park	1.09	—
Government (Civic Center)	94.0	—
Single Family Housing	649	—
Apartments Low Rise	137	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Refrigerated Warehouse-No Rail	658	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	868	—
City Park	1.09	—
Government (Civic Center)	94.0	—
Single Family Housing	649	—
Apartments Low Rise	137	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Refrigerated Warehouse-No Rail	658	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73

Emergency Generator	Diesel	1.00	1.00	50.0	800	0.73

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—

Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376

Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—

Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
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	Trip characteristics adjusted based on the Project traffic study and to separate industrial trucks and passenger vehicles.
Operations: Fleet Mix	Fleet mix adjusted to separate industrial trucks and passenger vehicles.
Operations: Hearths	No wood burning fireplaces or stoves per SCAQMD Rule 445. Project will not use natural gas.
Operations: Energy Use	Project will not use natural gas.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph2 Ops HCCS
Operational Year	2035
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.996623456155106, -117.07438392497613
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	1,400	1000sqft	32.1	1,400,000	565,322	—	—	—
City Park	28.9	Acre	28.9	0.00	1,258,884	1,258,884	—	—

Government (Civic Center)	16.5	1000sqft	0.38	16,500	32,322	—	—	Fire Station/Public Works
Single Family Housing	1,177	Dwelling Unit	382	2,295,150	13,786,033	—	3,802	—
Apartments Low Rise	266	Dwelling Unit	16.6	281,960	115,260	—	859	—
User Defined Industrial	2,800	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	98.2	Acre	98.2	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	222,592	—	—	—
Strip Mall	50.0	1000sqft	1.15	50,000	27,443	—	—	—
Refrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	222,592	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures

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.	251	241	160	787	2.59	3.62	198	201	3.41	50.8	54.2	3,779	309,438	313,217	394	27.9	1,224	332,605
Mit.	251	241	160	787	2.59	3.62	198	201	3.41	50.8	54.2	3,768	309,136	312,904	393	27.9	1,224	332,256

% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	218	210	166	507	2.49	3.36	198	201	3.22	50.8	54.0	3,779	299,391	303,169	394	28.1	871	322,275
Mit.	218	210	166	507	2.49	3.36	198	201	3.22	50.8	54.0	3,768	299,088	302,856	393	28.1	871	321,925
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	223	215	144	593	2.23	2.84	173	176	2.67	44.5	47.1	3,779	272,723	276,502	393	25.8	1,002	295,024
Mit.	223	215	144	593	2.23	2.84	173	176	2.67	44.5	47.1	3,768	272,421	276,189	392	25.8	1,002	294,675
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	40.7	39.3	26.2	108	0.41	0.52	31.6	32.1	0.49	8.12	8.60	626	45,152	45,778	65.1	4.27	166	48,845
Mit.	40.7	39.3	26.2	108	0.41	0.52	31.6	32.1	0.49	8.12	8.60	624	45,102	45,726	64.9	4.27	166	48,787
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	88.3	81.1	147	572	2.56	2.88	198	200	2.74	50.8	53.5	—	267,108	267,108	7.57	23.9	363	274,796
Area	159	157	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	35,197	35,197	4.45	0.54	—	35,469

Water	—	—	—	—	—	—	—	—	—	—	—	1,367	4,723	6,089	141	3.40	—	10,621
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Total	251	241	160	787	2.59	3.62	198	201	3.41	50.8	54.2	3,779	309,438	313,217	394	27.9	1,224	332,605
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	84.9	77.6	155	498	2.47	2.88	198	200	2.74	50.8	53.5	—	257,792	257,792	7.88	24.2	9.42	265,200
Area	130	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	35,197	35,197	4.45	0.54	—	35,469
Water	—	—	—	—	—	—	—	—	—	—	—	1,367	4,723	6,089	141	3.40	—	10,621
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Total	218	210	166	507	2.49	3.36	198	201	3.22	50.8	54.0	3,779	299,391	303,169	394	28.1	871	322,275
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	72.9	66.4	141	451	2.22	2.60	173	176	2.47	44.5	46.9	—	232,072	232,072	6.95	21.9	141	238,900
Area	150	148	1.24	142	0.01	0.18	—	0.18	0.13	—	0.13	—	501	501	0.02	< 0.005	—	503
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	35,197	35,197	4.45	0.54	—	35,469
Water	—	—	—	—	—	—	—	—	—	—	—	1,367	4,723	6,089	141	3.40	—	10,621
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	0.49	0.45	1.56	1.15	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	230	230	0.01	< 0.005	0.00	231
Total	223	215	144	593	2.23	2.84	173	176	2.67	44.5	47.1	3,779	272,723	276,502	393	25.8	1,002	295,024
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	12.1	25.7	82.2	0.41	0.47	31.6	32.1	0.45	8.12	8.57	—	38,422	38,422	1.15	3.62	23.3	39,553

Area	27.4	27.1	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	5,827	5,827	0.74	0.09	—	5,872
Water	—	—	—	—	—	—	—	—	—	—	—	226	782	1,008	23.3	0.56	—	1,758
Waste	—	—	—	—	—	—	—	—	—	—	—	399	0.00	399	39.9	0.00	—	1,397
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	143	143
Stationary	0.09	0.08	0.28	0.21	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	38.1	38.1	< 0.005	< 0.005	0.00	38.2
Total	40.7	39.3	26.2	108	0.41	0.52	31.6	32.1	0.49	8.12	8.60	626	45,152	45,778	65.1	4.27	166	48,845

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	88.3	81.1	147	572	2.56	2.88	198	200	2.74	50.8	53.5	—	267,108	267,108	7.57	23.9	363	274,796
Area	159	157	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	34,921	34,921	4.42	0.54	—	35,191
Water	—	—	—	—	—	—	—	—	—	—	—	1,356	4,696	6,052	140	3.38	—	10,550
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Total	251	241	160	787	2.59	3.62	198	201	3.41	50.8	54.2	3,768	309,136	312,904	393	27.9	1,224	332,256
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	84.9	77.6	155	498	2.47	2.88	198	200	2.74	50.8	53.5	—	257,792	257,792	7.88	24.2	9.42	265,200
Area	130	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	34,921	34,921	4.42	0.54	—	35,191

Water	—	—	—	—	—	—	—	—	—	—	—	1,356	4,696	6,052	140	3.38	—	10,550
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Total	218	210	166	507	2.49	3.36	198	201	3.22	50.8	54.0	3,768	299,088	302,856	393	28.1	871	321,925
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	72.9	66.4	141	451	2.22	2.60	173	176	2.47	44.5	46.9	—	232,072	232,072	6.95	21.9	141	238,900
Area	150	148	1.24	142	0.01	0.18	—	0.18	0.13	—	0.13	—	501	501	0.02	< 0.005	—	503
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	34,921	34,921	4.42	0.54	—	35,191
Water	—	—	—	—	—	—	—	—	—	—	—	1,356	4,696	6,052	140	3.38	—	10,550
Waste	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Stationary	0.49	0.45	1.56	1.15	< 0.005	0.07	0.00	0.07	0.07	0.00	0.07	0.00	230	230	0.01	< 0.005	0.00	231
Total	223	215	144	593	2.23	2.84	173	176	2.67	44.5	47.1	3,768	272,421	276,189	392	25.8	1,002	294,675
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.3	12.1	25.7	82.2	0.41	0.47	31.6	32.1	0.45	8.12	8.57	—	38,422	38,422	1.15	3.62	23.3	39,553
Area	27.4	27.1	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	5,782	5,782	0.73	0.09	—	5,826
Water	—	—	—	—	—	—	—	—	—	—	—	225	778	1,002	23.1	0.56	—	1,747
Waste	—	—	—	—	—	—	—	—	—	—	—	399	0.00	399	39.9	0.00	—	1,397
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	143	143
Stationary	0.09	0.08	0.28	0.21	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	38.1	38.1	< 0.005	< 0.005	0.00	38.2
Total	40.7	39.3	26.2	108	0.41	0.52	31.6	32.1	0.49	8.12	8.60	624	45,102	45,726	64.9	4.27	166	48,787

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	16.5	15.6	5.65	120	0.29	0.09	31.9	32.0	0.08	8.04	8.13	—	29,165	29,165	1.04	0.76	30.1	29,446
City Park	10.1	9.60	4.90	44.7	0.11	0.06	10.3	10.3	0.06	2.60	2.66	—	10,748	10,748	0.59	0.58	12.9	10,947
Government (Civic Center)	0.31	0.29	0.20	2.08	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	589	589	0.02	0.03	0.73	598
Single Family Housing	30.4	28.4	18.9	195	0.54	0.30	53.9	54.2	0.28	13.7	14.0	—	54,807	54,807	2.17	2.43	67.7	55,653
Apartments Low Rise	5.41	5.05	3.37	34.7	0.10	0.05	9.59	9.64	0.05	2.43	2.48	—	9,747	9,747	0.39	0.43	12.0	9,897
User Defined Industrial	4.54	2.34	105	29.1	1.17	2.23	52.6	54.8	2.13	14.0	16.2	—	125,279	125,279	1.99	18.5	199	131,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	11.2	10.6	3.82	81.5	0.20	0.06	21.6	21.6	0.06	5.44	5.50	—	19,730	19,730	0.70	0.51	20.4	19,921
Strip Mall	7.33	6.86	4.47	45.7	0.12	0.07	12.5	12.6	0.06	3.17	3.23	—	12,716	12,716	0.52	0.57	15.7	12,915

Refriger Warehouse-No Rail	2.46	2.32	0.84	17.9	0.04	0.01	4.73	4.74	0.01	1.19	1.21	—	4,327	4,327	0.15	0.11	4.47	4,369
Total	88.3	81.1	147	572	2.56	2.88	198	200	2.74	50.8	53.5	—	267,108	267,108	7.57	23.9	363	274,796
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	16.0	15.0	6.19	103	0.27	0.09	31.9	32.0	0.08	8.04	8.13	—	26,989	26,989	1.10	0.80	0.78	27,257
City Park	9.62	9.13	5.23	40.9	0.10	0.06	10.3	10.3	0.06	2.60	2.66	—	10,117	10,117	0.63	0.60	0.33	10,310
Government (Civic Center)	0.30	0.28	0.21	1.79	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	553	553	0.02	0.03	0.02	561
Single Family Housing	29.1	27.1	20.3	169	0.50	0.30	53.9	54.2	0.28	13.7	14.0	—	51,470	51,470	2.28	2.51	1.76	52,276
Apartments Low Rise	5.18	4.82	3.61	30.0	0.09	0.05	9.59	9.64	0.05	2.43	2.48	—	9,153	9,153	0.41	0.45	0.31	9,297
User Defined Industrial	4.47	2.28	109	29.2	1.17	2.23	52.6	54.8	2.13	14.0	16.2	—	125,303	125,303	1.98	18.5	5.17	130,881
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	10.8	10.2	4.19	69.7	0.18	0.06	21.6	21.6	0.06	5.44	5.50	—	18,259	18,259	0.75	0.54	0.53	18,440
Strip Mall	7.02	6.54	4.79	39.7	0.12	0.07	12.5	12.6	0.06	3.17	3.23	—	11,944	11,944	0.54	0.59	0.41	12,133

Refrigerated Warehouse-No Rail	2.37	2.23	0.92	15.3	0.04	0.01	4.73	4.74	0.01	1.19	1.21	—	4,005	4,005	0.16	0.12	0.12	4,044
Total	84.9	77.6	155	498	2.47	2.88	198	200	2.74	50.8	53.5	—	257,792	257,792	7.88	24.2	9.42	265,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	2.72	2.56	1.09	18.4	0.05	0.02	5.40	5.42	0.01	1.36	1.38	—	4,270	4,270	0.17	0.13	2.03	4,314
City Park	0.91	0.86	0.50	4.02	0.01	0.01	0.97	0.97	0.01	0.25	0.25	—	887	887	0.06	0.05	0.48	905
Government (Civic Center)	0.05	0.05	0.04	0.34	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	92.4	92.4	< 0.005	< 0.005	0.05	93.9
Single Family Housing	5.14	4.78	3.66	31.1	0.09	0.05	9.46	9.51	0.05	2.40	2.45	—	8,409	8,409	0.37	0.41	4.73	8,545
Apartments Low Rise	0.84	0.78	0.60	5.06	0.01	0.01	1.54	1.55	0.01	0.39	0.40	—	1,370	1,370	0.06	0.07	0.77	1,392
User Defined Industrial	0.75	0.38	18.3	4.82	0.19	0.37	8.60	8.97	0.35	2.30	2.65	—	18,855	18,855	0.30	2.79	12.9	19,707
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	1.40	1.32	0.56	9.46	0.02	0.01	2.78	2.79	0.01	0.70	0.71	—	2,201	2,201	0.09	0.07	1.05	2,224
Strip Mall	1.11	1.04	0.78	6.56	0.02	0.01	1.97	1.98	0.01	0.50	0.51	—	1,753	1,753	0.08	0.09	0.98	1,781

Refrigerated Warehouse-No Rail	0.37	0.35	0.15	2.52	0.01	< 0.005	0.74	0.74	< 0.005	0.19	0.19	—	586	586	0.02	0.02	0.28	592
Total	13.3	12.1	25.7	82.2	0.41	0.47	31.6	32.1	0.45	8.12	8.57	—	38,422	38,422	1.15	3.62	23.3	39,553

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	16.5	15.6	5.65	120	0.29	0.09	31.9	32.0	0.08	8.04	8.13	—	29,165	29,165	1.04	0.76	30.1	29,446
City Park	10.1	9.60	4.90	44.7	0.11	0.06	10.3	10.3	0.06	2.60	2.66	—	10,748	10,748	0.59	0.58	12.9	10,947
Government (Civic Center)	0.31	0.29	0.20	2.08	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	589	589	0.02	0.03	0.73	598
Single Family Housing	30.4	28.4	18.9	195	0.54	0.30	53.9	54.2	0.28	13.7	14.0	—	54,807	54,807	2.17	2.43	67.7	55,653
Apartments Low Rise	5.41	5.05	3.37	34.7	0.10	0.05	9.59	9.64	0.05	2.43	2.48	—	9,747	9,747	0.39	0.43	12.0	9,897
User Defined Industrial	4.54	2.34	105	29.1	1.17	2.23	52.6	54.8	2.13	14.0	16.2	—	125,279	125,279	1.99	18.5	199	131,049
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Wareho Rail	11.2	10.6	3.82	81.5	0.20	0.06	21.6	21.6	0.06	5.44	5.50	—	19,730	19,730	0.70	0.51	20.4	19,921
Strip Mall	7.33	6.86	4.47	45.7	0.12	0.07	12.5	12.6	0.06	3.17	3.23	—	12,716	12,716	0.52	0.57	15.7	12,915
Refrigerated Warehouse-No Rail	2.46	2.32	0.84	17.9	0.04	0.01	4.73	4.74	0.01	1.19	1.21	—	4,327	4,327	0.15	0.11	4.47	4,369
Total	88.3	81.1	147	572	2.56	2.88	198	200	2.74	50.8	53.5	—	267,108	267,108	7.57	23.9	363	274,796
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	16.0	15.0	6.19	103	0.27	0.09	31.9	32.0	0.08	8.04	8.13	—	26,989	26,989	1.10	0.80	0.78	27,257
City Park	9.62	9.13	5.23	40.9	0.10	0.06	10.3	10.3	0.06	2.60	2.66	—	10,117	10,117	0.63	0.60	0.33	10,310
Government (Civic Center)	0.30	0.28	0.21	1.79	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	553	553	0.02	0.03	0.02	561
Single Family Housing	29.1	27.1	20.3	169	0.50	0.30	53.9	54.2	0.28	13.7	14.0	—	51,470	51,470	2.28	2.51	1.76	52,276
Apartments Low Rise	5.18	4.82	3.61	30.0	0.09	0.05	9.59	9.64	0.05	2.43	2.48	—	9,153	9,153	0.41	0.45	0.31	9,297
User Defined Industrial	4.47	2.28	109	29.2	1.17	2.23	52.6	54.8	2.13	14.0	16.2	—	125,303	125,303	1.98	18.5	5.17	130,881
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-No	10.8	10.2	4.19	69.7	0.18	0.06	21.6	21.6	0.06	5.44	5.50	—	18,259	18,259	0.75	0.54	0.53	18,440
Strip Mall	7.02	6.54	4.79	39.7	0.12	0.07	12.5	12.6	0.06	3.17	3.23	—	11,944	11,944	0.54	0.59	0.41	12,133
Refrigerated Warehouse-No Rail	2.37	2.23	0.92	15.3	0.04	0.01	4.73	4.74	0.01	1.19	1.21	—	4,005	4,005	0.16	0.12	0.12	4,044
Total	84.9	77.6	155	498	2.47	2.88	198	200	2.74	50.8	53.5	—	257,792	257,792	7.88	24.2	9.42	265,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	2.72	2.56	1.09	18.4	0.05	0.02	5.40	5.42	0.01	1.36	1.38	—	4,270	4,270	0.17	0.13	2.03	4,314
City Park	0.91	0.86	0.50	4.02	0.01	0.01	0.97	0.97	0.01	0.25	0.25	—	887	887	0.06	0.05	0.48	905
Government (Civic Center)	0.05	0.05	0.04	0.34	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	92.4	92.4	< 0.005	< 0.005	0.05	93.9
Single Family Housing	5.14	4.78	3.66	31.1	0.09	0.05	9.46	9.51	0.05	2.40	2.45	—	8,409	8,409	0.37	0.41	4.73	8,545
Apartments Low Rise	0.84	0.78	0.60	5.06	0.01	0.01	1.54	1.55	0.01	0.39	0.40	—	1,370	1,370	0.06	0.07	0.77	1,392
User Defined Industrial	0.75	0.38	18.3	4.82	0.19	0.37	8.60	8.97	0.35	2.30	2.65	—	18,855	18,855	0.30	2.79	12.9	19,707
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	1.40	1.32	0.56	9.46	0.02	0.01	2.78	2.79	0.01	0.70	0.71	—	2,201	2,201	0.09	0.07	1.05	2,224

Strip Mall	1.11	1.04	0.78	6.56	0.02	0.01	1.97	1.98	0.01	0.50	0.51	—	1,753	1,753	0.08	0.09	0.98	1,781
Refrigerated Warehouse-No Rail	0.37	0.35	0.15	2.52	0.01	< 0.005	0.74	0.74	< 0.005	0.19	0.19	—	586	586	0.02	0.02	0.28	592
Total	13.3	12.1	25.7	82.2	0.41	0.47	31.6	32.1	0.45	8.12	8.57	—	38,422	38,422	1.15	3.62	23.3	39,553

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	9,572	9,572	1.21	0.15	—	9,646
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	7,854	7,854	0.99	0.12	—	7,915
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,301	1,301	0.16	0.02	—	1,311
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2,676	2,676	0.34	0.04	—	2,697
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,302	2,302	0.29	0.04	—	2,320
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.04	0.01	—	351
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	35,197	35,197	4.45	0.54	—	35,469
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	9,572	9,572	1.21	0.15	—	9,646
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	7,854	7,854	0.99	0.12	—	7,915
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,301	1,301	0.16	0.02	—	1,311
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2,676	2,676	0.34	0.04	—	2,697

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,302	2,302	0.29	0.04	—	2,320
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.04	0.01	—	351
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	35,197	35,197	4.45	0.54	—	35,469
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,585	1,585	0.20	0.02	—	1,597
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,300	1,300	0.16	0.02	—	1,310
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	215	215	0.03	< 0.005	—	217
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	443	443	0.06	0.01	—	447
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	381	381	0.05	0.01	—	384

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	57.7	57.7	0.01	< 0.005	—	58.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,827	5,827	0.74	0.09	—	5,872

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	9,572	9,572	1.21	0.15	—	9,646
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	7,624	7,624	0.96	0.12	—	7,683
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,255	1,255	0.16	0.02	—	1,264
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2,676	2,676	0.34	0.04	—	2,697

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,302	2,302	0.29	0.04	—	2,320
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.04	0.01	—	351
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	34,921	34,921	4.42	0.54	—	35,191
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	9,572	9,572	1.21	0.15	—	9,646
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	7,624	7,624	0.96	0.12	—	7,683
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,255	1,255	0.16	0.02	—	1,264
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2,676	2,676	0.34	0.04	—	2,697

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,302	2,302	0.29	0.04	—	2,320
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	349	349	0.04	0.01	—	351
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	34,921	34,921	4.42	0.54	—	35,191
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	1,585	1,585	0.20	0.02	—	1,597
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,262	1,262	0.16	0.02	—	1,272
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	208	208	0.03	< 0.005	—	209
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	443	443	0.06	0.01	—	447

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	381	381	0.05	0.01	—	384
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	57.7	57.7	0.01	< 0.005	—	58.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,782	5,782	0.73	0.09	—	5,826

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Apartments	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	118	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.0	12.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	29.7	27.6	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734

Total	159	157	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	118	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.0	12.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	130	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	21.5	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.19	2.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.71	3.45	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3
Total	27.4	27.1	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3

4.3.2. Mitigated

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

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

Consumer Product	118	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.0	12.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	29.7	27.6	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734
Total	159	157	1.80	207	0.01	0.26	—	0.26	0.20	—	0.20	—	732	732	0.03	0.01	—	734
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	118	118	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.0	12.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	130	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	21.5	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.19	2.19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.71	3.45	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3
Total	27.4	27.1	0.23	25.9	< 0.005	0.03	—	0.03	0.02	—	0.02	—	83.0	83.0	< 0.005	< 0.005	—	83.3

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	620	1,609	2,229	63.8	1.54	—	4,282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	168	168	0.02	< 0.005	—	169
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	91.7	1,246	1,338	9.56	0.24	—	1,649
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	20.7	61.1	81.8	2.13	0.05	—	150
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.10	19.7	26.8	0.73	0.02	—	50.3

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Total	—	—	—	—	—	—	—	—	—	—	—	1,367	4,723	6,089	141	3.40	—	10,621
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	620	1,609	2,229	63.8	1.54	—	4,282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	168	168	0.02	< 0.005	—	169
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	91.7	1,246	1,338	9.56	0.24	—	1,649
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	20.7	61.1	81.8	2.13	0.05	—	150
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.10	19.7	26.8	0.73	0.02	—	50.3

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Total	—	—	—	—	—	—	—	—	—	—	—	1,367	4,723	6,089	141	3.40	—	10,621
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	103	266	369	10.6	0.25	—	709
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	27.8	27.8	< 0.005	< 0.005	—	28.1
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	15.2	206	221	1.58	0.04	—	273
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3.43	10.1	13.5	0.35	0.01	—	24.9
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	184	5.28	0.13	—	354
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.17	3.26	4.43	0.12	< 0.005	—	8.32

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	184	5.28	0.13	—	354
Total	—	—	—	—	—	—	—	—	—	—	—	226	782	1,008	23.3	0.56	—	1,758

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	620	1,609	2,229	63.8	1.54	—	4,282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	168	168	0.02	< 0.005	—	169
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	83.2	1,224	1,307	8.69	0.22	—	1,591
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	18.8	56.2	75.0	1.94	0.05	—	137
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.10	19.7	26.8	0.73	0.02	—	50.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Total	—	—	—	—	—	—	—	—	—	—	—	1,356	4,696	6,052	140	3.38	—	10,550
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	620	1,609	2,229	63.8	1.54	—	4,282
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	168	168	0.02	< 0.005	—	169
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	83.2	1,224	1,307	8.69	0.22	—	1,591
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	18.8	56.2	75.0	1.94	0.05	—	137
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.10	19.7	26.8	0.73	0.02	—	50.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	801	1,111	31.9	0.77	—	2,137
Total	—	—	—	—	—	—	—	—	—	—	—	1,356	4,696	6,052	140	3.38	—	10,550
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	103	266	369	10.6	0.25	—	709
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	27.8	27.8	< 0.005	< 0.005	—	28.1
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	13.8	203	216	1.44	0.04	—	263
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	3.11	9.31	12.4	0.32	0.01	—	22.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	184	5.28	0.13	—	354

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.17	3.26	4.43	0.12	< 0.005	—	8.32
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	184	5.28	0.13	—	354
Total	—	—	—	—	—	—	—	—	—	—	—	225	778	1,002	23.1	0.56	—	1,747

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	936	0.00	936	93.5	0.00	—	3,273
City Park	—	—	—	—	—	—	—	—	—	—	—	1.34	0.00	1.34	0.13	0.00	—	4.69
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	581	0.00	581	58.1	0.00	—	2,032
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	371
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.83	0.00	—	99.0
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	936	0.00	936	93.5	0.00	—	3,273
City Park	—	—	—	—	—	—	—	—	—	—	—	1.34	0.00	1.34	0.13	0.00	—	4.69
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	581	0.00	581	58.1	0.00	—	2,032
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	371
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.83	0.00	—	99.0
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	155	0.00	155	15.5	0.00	—	542
City Park	—	—	—	—	—	—	—	—	—	—	—	0.22	0.00	0.22	0.02	0.00	—	0.78
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	336
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.5	0.00	17.5	1.75	0.00	—	61.4
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.68	0.00	4.68	0.47	0.00	—	16.4
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	399	0.00	399	39.9	0.00	—	1,397

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	936	0.00	936	93.5	0.00	—	3,273
City Park	—	—	—	—	—	—	—	—	—	—	—	1.34	0.00	1.34	0.13	0.00	—	4.69
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	581	0.00	581	58.1	0.00	—	2,032
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	371
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.83	0.00	—	99.0
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	936	0.00	936	93.5	0.00	—	3,273
City Park	—	—	—	—	—	—	—	—	—	—	—	1.34	0.00	1.34	0.13	0.00	—	4.69
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	581	0.00	581	58.1	0.00	—	2,032
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	106	0.00	106	10.6	0.00	—	371
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.3	0.00	28.3	2.83	0.00	—	99.0
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	2,412	0.00	2,412	241	0.00	—	8,439
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	155	0.00	155	15.5	0.00	—	542
City Park	—	—	—	—	—	—	—	—	—	—	—	0.22	0.00	0.22	0.02	0.00	—	0.78
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	96.2	0.00	96.2	9.61	0.00	—	336
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	17.5	0.00	17.5	1.75	0.00	—	61.4
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	4.68	0.00	4.68	0.47	0.00	—	16.4
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	399	0.00	399	39.9	0.00	—	1,397

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.7	21.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.43	2.43
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.30	0.30
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	143	143

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Govern (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	131	131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	14.7	14.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.81	1.81
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	861	861
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21.7	21.7
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.43	2.43
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.30	0.30
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	143	143

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.16	1.97	5.50	5.02	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.16	1.97	5.50	5.02	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	22.8	22.8	< 0.005	< 0.005	0.00	22.9
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.09	0.08	0.28	0.21	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	38.1	38.1	< 0.005	< 0.005	0.00	38.2

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.16	1.97	5.50	5.02	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.16	1.97	5.50	5.02	0.01	0.29	0.00	0.29	0.29	0.00	0.29	0.00	1,007	1,007	0.04	0.01	0.00	1,011
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	3.61	3.28	11.4	8.37	0.02	0.48	0.00	0.48	0.48	0.00	0.48	0.00	1,679	1,679	0.07	0.01	0.00	1,685
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.14	0.13	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	22.8	22.8	< 0.005	< 0.005	0.00	22.9
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.09	0.08	0.28	0.21	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	38.1	38.1	< 0.005	< 0.005	0.00	38.2

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	6,468	5,246	5,180	2,229,931	45,808	37,152	36,686	15,792,925
City Park	1,446	3,634	4,060	778,155	5,173	12,998	14,523	2,783,675
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	11,100	11,218	10,054	4,003,182	75,491	76,291	68,375	27,224,902
Apartments Low Rise	1,794	1,995	1,539	651,973	12,200	13,568	10,467	4,433,949
User Defined Industrial	1,011	697	680	335,362	60,648	41,832	40,824	20,121,720
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-No Rail	4,376	116	46.2	1,149,276	30,990	823	327	8,139,454
Strip Mall	2,724	2,102	1,022	873,054	17,673	13,637	6,627	5,664,189
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,797	3,857	3,693	2,165,730

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	6,468	5,246	5,180	2,229,931	45,808	37,152	36,686	15,792,925
City Park	1,446	3,634	4,060	778,155	5,173	12,998	14,523	2,783,675
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	11,100	11,218	10,054	4,003,182	75,491	76,291	68,375	27,224,902
Apartments Low Rise	1,794	1,995	1,539	651,973	12,200	13,568	10,467	4,433,949
User Defined Industrial	1,011	697	680	335,362	60,648	41,832	40,824	20,121,720
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	4,376	116	46.2	1,149,276	30,990	823	327	8,139,454
Strip Mall	2,724	2,102	1,022	873,054	17,673	13,637	6,627	5,664,189
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,797	3,857	3,693	2,165,730

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
5218647.75	1,739,549	4,299,750	1,433,250	256,551

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)
General Light Industry	13,396,700	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	10,992,290	261	0.0330	0.0040	0.00
Apartments Low Rise	1,821,246	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

Parking Lot	3,745,644	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,221,646	261	0.0330	0.0040	0.00
Strip Mall	487,920	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	13,396,700	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	10,671,199	261	0.0330	0.0040	0.00
Apartments Low Rise	1,756,051	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	3,745,644	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,221,646	261	0.0330	0.0040	0.00
Strip Mall	487,920	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	323,750,000	8,963,582
City Park	0.00	44,356,668

Government (Civic Center)	3,277,885	512,488
Single Family Housing	47,873,033	267,162,322
Apartments Low Rise	10,819,224	2,233,647
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	161,875,000	3,529,354
Strip Mall	3,703,626	435,128
Refrigerated Warehouse-No Rail	161,875,000	3,529,354

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	323,750,000	8,963,582
City Park	0.00	44,356,668
Government (Civic Center)	3,277,885	512,488
Single Family Housing	43,435,203	267,162,322
Apartments Low Rise	9,816,282	2,233,647
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	161,875,000	3,529,354
Strip Mall	3,703,626	435,128
Refrigerated Warehouse-No Rail	161,875,000	3,529,354

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	1,736	—
City Park	2.49	—

Government (Civic Center)	94.0	—
Single Family Housing	1,078	—
Apartments Low Rise	197	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	658	—
Strip Mall	52.5	—
Refrigerated Warehouse-No Rail	658	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	1,736	—
City Park	2.49	—
Government (Civic Center)	94.0	—
Single Family Housing	1,078	—
Apartments Low Rise	197	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	658	—
Strip Mall	52.5	—
Refrigerated Warehouse-No Rail	658	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.14.2. Mitigated

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

General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	1.00	1.00	50.0	800	0.73

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3

Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100

Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—

Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
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	Trip characteristics adjusted based on the Project traffic study and to separate industrial trucks and passenger vehicles.
Operations: Fleet Mix	Fleet mix adjusted to separate industrial trucks and passenger vehicles.
Operations: Hearths	No wood burning fireplaces or stoves per SCAQMD Rule 445. Project will not use natural gas.
Operations: Energy Use	Project will not use natural gas.

Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph3 Ops HCCS
Operational Year	2038
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.996623456155106, -117.07438392497613
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	2,100	1000sqft	48.2	2,100,000	756,811	—	—	—
City Park	37.8	Acre	37.8	0.00	1,646,568	1,646,568	—	—

Government (Civic Center)	16.5	1000sqft	0.38	16,500	32,322	—	—	Fire Station/Public Works
Single Family Housing	1,624	Dwelling Unit	527	3,166,800	19,021,680	—	5,246	—
Apartments Low Rise	347	Dwelling Unit	21.7	367,820	115,260	—	1,121	—
User Defined Industrial	4,200	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	111	Acre	111	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	1,400	1000sqft	32.1	1,400,000	305,225	—	—	—
Strip Mall	300	1000sqft	6.89	300,000	154,899	—	—	—
Refrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	305,225	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures

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.	383	368	210	1,235	3.78	4.74	316	320	4.46	80.8	85.3	5,693	446,809	452,502	593	37.8	1,282	479,867
Mit.	383	368	210	1,235	3.78	4.74	316	320	4.46	80.8	85.3	5,679	446,395	452,074	591	37.8	1,282	479,389

% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	333	321	218	807	3.61	4.34	316	320	4.16	80.8	85.0	5,693	430,236	435,929	593	38.1	943	463,070
Mit.	333	321	218	807	3.61	4.34	316	320	4.16	80.8	85.0	5,679	429,822	435,501	592	38.1	943	462,592
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	341	329	190	932	3.25	3.74	276	280	3.51	70.7	74.2	5,693	392,465	398,158	592	35.3	1,069	424,533
Mit.	341	329	190	932	3.25	3.74	276	280	3.51	70.7	74.2	5,679	392,052	397,731	590	35.2	1,069	424,055
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	62.2	60.0	34.8	170	0.59	0.68	50.4	51.0	0.64	12.9	13.5	943	64,977	65,920	98.0	5.84	177	70,286
Mit.	62.2	60.0	34.8	170	0.59	0.68	50.4	51.0	0.64	12.9	13.5	940	64,909	65,849	97.7	5.83	177	70,207
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	141	131	193	915	3.74	3.71	316	319	3.53	80.8	84.4	—	388,795	388,795	11.5	31.9	347	398,936
Area	237	233	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,766	47,766	6.04	0.73	—	48,136

Water	—	—	—	—	—	—	—	—	—	—	—	2,064	6,957	9,021	212	5.13	—	15,863
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Total	383	368	210	1,235	3.78	4.74	316	320	4.46	80.8	85.3	5,693	446,809	452,502	593	37.8	1,282	479,867
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	137	126	204	796	3.59	3.71	316	319	3.53	80.8	84.4	—	373,329	373,329	11.9	32.3	9.01	383,250
Area	192	192	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,766	47,766	6.04	0.73	—	48,136
Water	—	—	—	—	—	—	—	—	—	—	—	2,064	6,957	9,021	212	5.13	—	15,863
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Total	333	321	218	807	3.61	4.34	316	320	4.16	80.8	85.0	5,693	430,236	435,929	593	38.1	943	463,070
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	118	108	187	719	3.23	3.38	276	279	3.22	70.7	74.0	—	336,684	336,684	10.6	29.4	135	345,842
Area	222	220	1.84	212	0.01	0.27	—	0.27	0.21	—	0.21	—	758	758	0.03	0.01	—	761
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,766	47,766	6.04	0.73	—	48,136
Water	—	—	—	—	—	—	—	—	—	—	—	2,064	6,957	9,021	212	5.13	—	15,863
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	0.64	0.58	1.94	1.49	< 0.005	0.09	0.00	0.09	0.09	0.00	0.09	0.00	299	299	0.01	< 0.005	0.00	300
Total	341	329	190	932	3.25	3.74	276	280	3.51	70.7	74.2	5,693	392,465	398,158	592	35.3	1,069	424,533
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.5	19.7	34.1	131	0.59	0.62	50.4	51.0	0.59	12.9	13.5	—	55,742	55,742	1.75	4.87	22.4	57,258

Area	40.6	40.2	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,908	7,908	1.00	0.12	—	7,969
Water	—	—	—	—	—	—	—	—	—	—	—	342	1,152	1,494	35.2	0.85	—	2,626
Waste	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,102
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	155	155
Stationary	0.12	0.11	0.35	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	49.5	49.5	< 0.005	< 0.005	0.00	49.7
Total	62.2	60.0	34.8	170	0.59	0.68	50.4	51.0	0.64	12.9	13.5	943	64,977	65,920	98.0	5.84	177	70,286

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	141	131	193	915	3.74	3.71	316	319	3.53	80.8	84.4	—	388,795	388,795	11.5	31.9	347	398,936
Area	237	233	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,389	47,389	6.00	0.73	—	47,756
Water	—	—	—	—	—	—	—	—	—	—	—	2,049	6,921	8,971	211	5.10	—	15,766
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Total	383	368	210	1,235	3.78	4.74	316	320	4.46	80.8	85.3	5,679	446,395	452,074	591	37.8	1,282	479,389
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	137	126	204	796	3.59	3.71	316	319	3.53	80.8	84.4	—	373,329	373,329	11.9	32.3	9.01	383,250
Area	192	192	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,389	47,389	6.00	0.73	—	47,756

Water	—	—	—	—	—	—	—	—	—	—	—	2,049	6,921	8,971	211	5.10	—	15,766
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Total	333	321	218	807	3.61	4.34	316	320	4.16	80.8	85.0	5,679	429,822	435,501	592	38.1	943	462,592
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	118	108	187	719	3.23	3.38	276	279	3.22	70.7	74.0	—	336,684	336,684	10.6	29.4	135	345,842
Area	222	220	1.84	212	0.01	0.27	—	0.27	0.21	—	0.21	—	758	758	0.03	0.01	—	761
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	47,389	47,389	6.00	0.73	—	47,756
Water	—	—	—	—	—	—	—	—	—	—	—	2,049	6,921	8,971	211	5.10	—	15,766
Waste	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Stationary	0.64	0.58	1.94	1.49	< 0.005	0.09	0.00	0.09	0.09	0.00	0.09	0.00	299	299	0.01	< 0.005	0.00	300
Total	341	329	190	932	3.25	3.74	276	280	3.51	70.7	74.2	5,679	392,052	397,731	590	35.2	1,069	424,055
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	21.5	19.7	34.1	131	0.59	0.62	50.4	51.0	0.59	12.9	13.5	—	55,742	55,742	1.75	4.87	22.4	57,258
Area	40.6	40.2	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	7,846	7,846	0.99	0.12	—	7,906
Water	—	—	—	—	—	—	—	—	—	—	—	339	1,146	1,485	34.9	0.84	—	2,610
Waste	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,102
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	155	155
Stationary	0.12	0.11	0.35	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	49.5	49.5	< 0.005	< 0.005	0.00	49.7
Total	62.2	60.0	34.8	170	0.59	0.68	50.4	51.0	0.64	12.9	13.5	940	64,909	65,849	97.7	5.83	177	70,207

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	22.9	21.7	7.64	165	0.40	0.11	45.8	45.9	0.10	11.5	11.7	—	40,947	40,947	1.40	1.07	25.4	41,324
City Park	12.1	11.5	5.89	55.2	0.13	0.07	13.4	13.5	0.07	3.40	3.47	—	13,572	13,572	0.71	0.72	10.5	13,814
Government (Civic Center)	0.29	0.27	0.18	1.97	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	568	568	0.02	0.02	0.45	576
Single Family Housing	38.2	35.8	22.8	243	0.67	0.34	69.9	70.2	0.31	17.7	18.0	—	68,738	68,738	2.68	3.02	54.5	69,760
Apartments Low Rise	6.42	6.01	3.84	40.9	0.11	0.06	11.8	11.8	0.05	2.98	3.03	—	11,557	11,557	0.45	0.51	9.17	11,729
User Defined Industrial	5.39	2.65	125	33.8	1.43	2.74	68.6	71.3	2.62	18.3	20.9	—	153,498	153,498	2.49	22.9	175	160,559
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	20.7	19.6	6.89	149	0.37	0.10	41.3	41.4	0.09	10.4	10.5	—	36,929	36,929	1.26	0.96	22.9	37,270
Strip Mall	33.1	31.0	19.7	209	0.58	0.29	59.9	60.2	0.27	15.2	15.5	—	58,936	58,936	2.31	2.60	46.7	59,816

Refriger Warehouse-No Rail	2.27	2.14	0.76	16.4	0.04	0.01	4.53	4.54	0.01	1.14	1.15	—	4,050	4,050	0.14	0.11	2.51	4,088
Total	141	131	193	915	3.74	3.71	316	319	3.53	80.8	84.4	—	388,795	388,795	11.5	31.9	347	398,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	22.2	20.9	8.35	141	0.37	0.11	45.8	45.9	0.10	11.5	11.7	—	37,897	37,897	1.48	1.13	0.66	38,271
City Park	11.7	11.1	6.31	50.3	0.12	0.07	13.4	13.5	0.07	3.40	3.47	—	12,766	12,766	0.76	0.74	0.27	13,005
Government (Civic Center)	0.28	0.26	0.19	1.69	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	533	533	0.02	0.03	0.01	541
Single Family Housing	36.8	34.3	24.5	211	0.63	0.34	69.9	70.2	0.32	17.7	18.0	—	64,513	64,513	2.81	3.12	1.41	65,514
Apartments Low Rise	6.19	5.77	4.11	35.4	0.11	0.06	11.8	11.8	0.05	2.98	3.03	—	10,847	10,847	0.47	0.52	0.24	11,015
User Defined Industrial	5.30	2.57	131	33.9	1.43	2.74	68.6	71.3	2.62	18.3	20.9	—	153,531	153,531	2.49	22.9	4.55	160,424
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	20.0	18.9	7.54	128	0.34	0.10	41.3	41.4	0.09	10.4	10.5	—	34,178	34,178	1.34	1.02	0.59	34,516
Strip Mall	31.9	29.8	21.1	181	0.54	0.29	59.9	60.2	0.27	15.2	15.5	—	55,316	55,316	2.42	2.68	1.21	56,178

Refrigerated Warehouse-No Rail	2.19	2.07	0.83	14.0	0.04	0.01	4.53	4.54	0.01	1.14	1.15	—	3,749	3,749	0.15	0.11	0.07	3,786
Total	137	126	204	796	3.59	3.71	316	319	3.53	80.8	84.4	—	373,329	373,329	11.9	32.3	9.01	383,250
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.78	3.56	1.48	25.2	0.07	0.02	7.76	7.78	0.02	1.96	1.98	—	5,996	5,996	0.23	0.18	1.71	6,057
City Park	1.10	1.05	0.61	4.95	0.01	0.01	1.26	1.27	0.01	0.32	0.33	—	1,120	1,120	0.07	0.06	0.39	1,141
Government (Civic Center)	0.05	0.05	0.04	0.32	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	89.1	89.1	< 0.005	< 0.005	0.03	90.5
Single Family Housing	6.49	6.05	4.40	38.8	0.11	0.06	12.3	12.3	0.06	3.11	3.17	—	10,541	10,541	0.46	0.51	3.81	10,708
Apartments Low Rise	1.00	0.93	0.68	5.97	0.02	0.01	1.89	1.90	0.01	0.48	0.49	—	1,623	1,623	0.07	0.08	0.59	1,649
User Defined Industrial	0.90	0.44	22.2	5.66	0.24	0.46	11.3	11.8	0.44	3.03	3.47	—	23,352	23,352	0.38	3.48	11.5	24,412
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.59	2.45	1.01	17.3	0.04	0.01	5.33	5.34	0.01	1.35	1.36	—	4,119	4,119	0.16	0.12	1.18	4,161
Strip Mall	5.26	4.90	3.55	31.2	0.09	0.05	9.82	9.87	0.05	2.49	2.54	—	8,443	8,443	0.37	0.41	3.05	8,577

Refrigerated Warehouse-No Rail	0.29	0.27	0.11	1.93	< 0.005	< 0.005	0.59	0.59	< 0.005	0.15	0.15	—	459	459	0.02	0.01	0.13	463
Total	21.5	19.7	34.1	131	0.59	0.62	50.4	51.0	0.59	12.9	13.5	—	55,742	55,742	1.75	4.87	22.4	57,258

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	22.9	21.7	7.64	165	0.40	0.11	45.8	45.9	0.10	11.5	11.7	—	40,947	40,947	1.40	1.07	25.4	41,324
City Park	12.1	11.5	5.89	55.2	0.13	0.07	13.4	13.5	0.07	3.40	3.47	—	13,572	13,572	0.71	0.72	10.5	13,814
Government (Civic Center)	0.29	0.27	0.18	1.97	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	568	568	0.02	0.02	0.45	576
Single Family Housing	38.2	35.8	22.8	243	0.67	0.34	69.9	70.2	0.31	17.7	18.0	—	68,738	68,738	2.68	3.02	54.5	69,760
Apartments Low Rise	6.42	6.01	3.84	40.9	0.11	0.06	11.8	11.8	0.05	2.98	3.03	—	11,557	11,557	0.45	0.51	9.17	11,729
User Defined Industrial	5.39	2.65	125	33.8	1.43	2.74	68.6	71.3	2.62	18.3	20.9	—	153,498	153,498	2.49	22.9	175	160,559
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Wareho Rail	20.7	19.6	6.89	149	0.37	0.10	41.3	41.4	0.09	10.4	10.5	—	36,929	36,929	1.26	0.96	22.9	37,270
Strip Mall	33.1	31.0	19.7	209	0.58	0.29	59.9	60.2	0.27	15.2	15.5	—	58,936	58,936	2.31	2.60	46.7	59,816
Refrigerated Warehouse-No Rail	2.27	2.14	0.76	16.4	0.04	0.01	4.53	4.54	0.01	1.14	1.15	—	4,050	4,050	0.14	0.11	2.51	4,088
Total	141	131	193	915	3.74	3.71	316	319	3.53	80.8	84.4	—	388,795	388,795	11.5	31.9	347	398,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	22.2	20.9	8.35	141	0.37	0.11	45.8	45.9	0.10	11.5	11.7	—	37,897	37,897	1.48	1.13	0.66	38,271
City Park	11.7	11.1	6.31	50.3	0.12	0.07	13.4	13.5	0.07	3.40	3.47	—	12,766	12,766	0.76	0.74	0.27	13,005
Government (Civic Center)	0.28	0.26	0.19	1.69	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	533	533	0.02	0.03	0.01	541
Single Family Housing	36.8	34.3	24.5	211	0.63	0.34	69.9	70.2	0.32	17.7	18.0	—	64,513	64,513	2.81	3.12	1.41	65,514
Apartments Low Rise	6.19	5.77	4.11	35.4	0.11	0.06	11.8	11.8	0.05	2.98	3.03	—	10,847	10,847	0.47	0.52	0.24	11,015
User Defined Industrial	5.30	2.57	131	33.9	1.43	2.74	68.6	71.3	2.62	18.3	20.9	—	153,531	153,531	2.49	22.9	4.55	160,424
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-No	20.0	18.9	7.54	128	0.34	0.10	41.3	41.4	0.09	10.4	10.5	—	34,178	34,178	1.34	1.02	0.59	34,516
Strip Mall	31.9	29.8	21.1	181	0.54	0.29	59.9	60.2	0.27	15.2	15.5	—	55,316	55,316	2.42	2.68	1.21	56,178
Refrigerated Warehouse-No Rail	2.19	2.07	0.83	14.0	0.04	0.01	4.53	4.54	0.01	1.14	1.15	—	3,749	3,749	0.15	0.11	0.07	3,786
Total	137	126	204	796	3.59	3.71	316	319	3.53	80.8	84.4	—	373,329	373,329	11.9	32.3	9.01	383,250
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.78	3.56	1.48	25.2	0.07	0.02	7.76	7.78	0.02	1.96	1.98	—	5,996	5,996	0.23	0.18	1.71	6,057
City Park	1.10	1.05	0.61	4.95	0.01	0.01	1.26	1.27	0.01	0.32	0.33	—	1,120	1,120	0.07	0.06	0.39	1,141
Government (Civic Center)	0.05	0.05	0.04	0.32	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	89.1	89.1	< 0.005	< 0.005	0.03	90.5
Single Family Housing	6.49	6.05	4.40	38.8	0.11	0.06	12.3	12.3	0.06	3.11	3.17	—	10,541	10,541	0.46	0.51	3.81	10,708
Apartments Low Rise	1.00	0.93	0.68	5.97	0.02	0.01	1.89	1.90	0.01	0.48	0.49	—	1,623	1,623	0.07	0.08	0.59	1,649
User Defined Industrial	0.90	0.44	22.2	5.66	0.24	0.46	11.3	11.8	0.44	3.03	3.47	—	23,352	23,352	0.38	3.48	11.5	24,412
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.59	2.45	1.01	17.3	0.04	0.01	5.33	5.34	0.01	1.35	1.36	—	4,119	4,119	0.16	0.12	1.18	4,161

Strip Mall	5.26	4.90	3.55	31.2	0.09	0.05	9.82	9.87	0.05	2.49	2.54	—	8,443	8,443	0.37	0.41	3.05	8,577
Refrigerated Warehouse-No Rail	0.29	0.27	0.11	1.93	< 0.005	< 0.005	0.59	0.59	< 0.005	0.15	0.15	—	459	459	0.02	0.01	0.13	463
Total	21.5	19.7	34.1	131	0.59	0.62	50.4	51.0	0.59	12.9	13.5	—	55,742	55,742	1.75	4.87	22.4	57,258

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,837	10,837	1.37	0.17	—	10,920
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,698	1,698	0.21	0.03	—	1,711
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,036	3,036	0.38	0.05	—	3,059
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	47,766	47,766	6.04	0.73	—	48,136
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,837	10,837	1.37	0.17	—	10,920
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,698	1,698	0.21	0.03	—	1,711
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,036	3,036	0.38	0.05	—	3,059

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	47,766	47,766	6.04	0.73	—	48,136
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,794	1,794	0.23	0.03	—	1,808
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	281	281	0.04	< 0.005	—	283
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	503	503	0.06	0.01	—	507
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,908	7,908	1.00	0.12	—	7,969

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,520	10,520	1.33	0.16	—	10,601
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,637	1,637	0.21	0.03	—	1,649
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,036	3,036	0.38	0.05	—	3,059

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	47,389	47,389	6.00	0.73	—	47,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	10,520	10,520	1.33	0.16	—	10,601
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,637	1,637	0.21	0.03	—	1,649
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,036	3,036	0.38	0.05	—	3,059

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	47,389	47,389	6.00	0.73	—	47,756
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1,742	1,742	0.22	0.03	—	1,755
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	271	271	0.03	< 0.005	—	273
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	503	503	0.06	0.01	—	507

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	7,846	7,846	0.99	0.12	—	7,906

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Apartments	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	174	174	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	45.2	42.0	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111

Total	237	233	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	174	174	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	192	192	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	31.7	31.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.27	3.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.65	5.25	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126
Total	40.6	40.2	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126

4.3.2. Mitigated

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

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

Consumer Product	174	174	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	45.2	42.0	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111
Total	237	233	2.68	309	0.02	0.40	—	0.40	0.30	—	0.30	—	1,107	1,107	0.05	0.01	—	1,111
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	174	174	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	17.9	17.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	192	192	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	31.7	31.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.27	3.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	5.65	5.25	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126
Total	40.6	40.2	0.34	38.6	< 0.005	0.05	—	0.05	0.04	—	0.04	—	126	126	0.01	< 0.005	—	126

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	220	220	0.03	< 0.005	—	222
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	127	1,719	1,846	13.2	0.33	—	2,275
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	27.0	77.1	104	2.78	0.07	—	194
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,064	6,957	9,021	212	5.13	—	15,863
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	220	220	0.03	< 0.005	—	222
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	127	1,719	1,846	13.2	0.33	—	2,275
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	27.0	77.1	104	2.78	0.07	—	194
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,064	6,957	9,021	212	5.13	—	15,863
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	36.4	36.4	< 0.005	< 0.005	—	36.7
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	21.0	285	306	2.18	0.06	—	377
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	4.48	12.8	17.2	0.46	0.01	—	32.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	264	366	10.6	0.25	—	706
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8

Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	355
Total	—	—	—	—	—	—	—	—	—	—	—	342	1,152	1,494	35.2	0.85	—	2,626

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	220	220	0.03	< 0.005	—	222
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	115	1,689	1,804	12.0	0.31	—	2,195
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	24.5	70.8	95.3	2.53	0.06	—	177
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,049	6,921	8,971	211	5.10	—	15,766
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	220	220	0.03	< 0.005	—	222
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	115	1,689	1,804	12.0	0.31	—	2,195
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	24.5	70.8	95.3	2.53	0.06	—	177
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,049	6,921	8,971	211	5.10	—	15,766
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	36.4	36.4	< 0.005	< 0.005	—	36.7
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	19.0	280	299	1.98	0.05	—	363
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	4.06	11.7	15.8	0.42	0.01	—	29.2
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	264	366	10.6	0.25	—	706

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	355
Total	—	—	—	—	—	—	—	—	—	—	—	339	1,146	1,485	34.9	0.84	—	2,610

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	1.75	0.00	1.75	0.18	0.00	—	6.13
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	801	0.00	801	80.1	0.00	—	2,804
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	138	0.00	138	13.8	0.00	—	484
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	1.75	0.00	1.75	0.18	0.00	—	6.13
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	801	0.00	801	80.1	0.00	—	2,804
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	138	0.00	138	13.8	0.00	—	484
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	22.9	0.00	22.9	2.29	0.00	—	80.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,102

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	1.75	0.00	1.75	0.18	0.00	—	6.13
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	801	0.00	801	80.1	0.00	—	2,804
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	138	0.00	138	13.8	0.00	—	484
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	1.75	0.00	1.75	0.18	0.00	—	6.13
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	801	0.00	801	80.1	0.00	—	2,804
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	138	0.00	138	13.8	0.00	—	484
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	3,629	0.00	3,629	363	0.00	—	12,697
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.29	0.00	0.29	0.03	0.00	—	1.01
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	133	0.00	133	13.3	0.00	—	464
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	22.9	0.00	22.9	2.29	0.00	—	80.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	601	0.00	601	60.1	0.00	—	2,102

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3	20.3

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.36	2.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3	20.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.36	2.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.36	3.36
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	155	155

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Govern (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3	20.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.36	2.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20.3	20.3
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.36	2.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	934	934
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.36	3.36
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.39	0.39
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	155	155

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.25	2.95	8.26	7.53	0.01	0.43	0.00	0.43	0.43	0.00	0.43	0.00	1,511	1,511	0.06	0.01	0.00	1,516
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.25	2.95	8.26	7.53	0.01	0.43	0.00	0.43	0.43	0.00	0.43	0.00	1,511	1,511	0.06	0.01	0.00	1,516
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.08	0.07	0.21	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.12	0.11	0.35	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	49.5	49.5	< 0.005	< 0.005	0.00	49.7

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.25	2.95	8.26	7.53	0.01	0.43	0.00	0.43	0.43	0.00	0.43	0.00	1,511	1,511	0.06	0.01	0.00	1,516
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	3.25	2.95	8.26	7.53	0.01	0.43	0.00	0.43	0.43	0.00	0.43	0.00	1,511	1,511	0.06	0.01	0.00	1,516
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	4.69	4.27	14.1	10.9	0.02	0.63	0.00	0.63	0.63	0.00	0.63	0.00	2,183	2,183	0.09	0.02	0.00	2,190
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.08	0.07	0.21	0.19	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	34.3	34.3	< 0.005	< 0.005	0.00	34.4
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.12	0.11	0.35	0.27	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	49.5	49.5	< 0.005	< 0.005	0.00	49.7

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	65,749	53,325	52,656	22,667,863
City Park	1,890	4,749	5,307	1,017,087	6,765	16,999	18,994	3,640,568
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	15,314	15,477	13,871	5,522,914	97,881	98,919	88,653	35,299,468
Apartments Low Rise	2,340	2,602	2,007	850,470	14,957	16,632	12,830	5,435,744
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	59,297	1,575	626	15,574,463
Strip Mall	13,452	12,612	6,129	4,484,338	84,771	79,477	38,623	28,258,988
Refrigerated Warehouse-No Rail	960	77.0	30.8	255,829	6,504	522	209	1,733,711

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	65,749	53,325	52,656	22,667,863
City Park	1,890	4,749	5,307	1,017,087	6,765	16,999	18,994	3,640,568
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	15,314	15,477	13,871	5,522,914	97,881	98,919	88,653	35,299,468
Apartments Low Rise	2,340	2,602	2,007	850,470	14,957	16,632	12,830	5,435,744
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	59,297	1,575	626	15,574,463
Strip Mall	13,452	12,612	6,129	4,484,338	84,771	79,477	38,623	28,258,988
Refrigerated Warehouse-No Rail	960	77.0	30.8	255,829	6,504	522	209	1,733,711

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
7157605.5	2,385,869	6,774,750	2,258,250	291,024

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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	15,166,932	261	0.0330	0.0040	0.00
Apartments Low Rise	2,375,836	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

Parking Lot	4,248,956	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	14,723,897	261	0.0330	0.0040	0.00
Apartments Low Rise	2,290,788	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	4,248,956	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	485,625,000	11,999,776
City Park	0.00	58,016,681

Government (Civic Center)	3,277,885	512,488
Single Family Housing	66,054,211	368,624,984
Apartments Low Rise	14,113,800	2,233,647
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	4,839,559
Strip Mall	22,221,756	2,456,034
Refrigerated Warehouse-No Rail	161,875,000	4,839,559

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	485,625,000	11,999,776
City Park	0.00	58,016,681
Government (Civic Center)	3,277,885	512,488
Single Family Housing	59,930,985	368,624,984
Apartments Low Rise	12,805,451	2,233,647
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	4,839,559
Strip Mall	22,221,756	2,456,034
Refrigerated Warehouse-No Rail	161,875,000	4,839,559

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	3.25	—

Government (Civic Center)	94.0	—
Single Family Housing	1,487	—
Apartments Low Rise	257	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
Refrigerated Warehouse-No Rail	658	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	3.25	—
Government (Civic Center)	94.0	—
Single Family Housing	1,487	—
Apartments Low Rise	257	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
Refrigerated Warehouse-No Rail	658	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.14.2. Mitigated

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

General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	1.00	1.00	50.0	800	0.73

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3

AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357

Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0
Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1

Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
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	Trip characteristics adjusted based on the Project traffic study and to separate industrial trucks and passenger vehicles.
Operations: Fleet Mix	Fleet mix adjusted to separate industrial trucks and passenger vehicles.
Operations: Hearths	No wood burning fireplaces or stoves per SCAQMD Rule 445. Project will not use natural gas.
Operations: Energy Use	Project will not use natural gas.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph4 Ops HCCS
Operational Year	2040
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.996623456155106, -117.07438392497613
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	2,100	1000sqft	48.2	2,100,000	756,811	—	—	—
City Park	54.3	Acre	54.3	0.00	2,365,308	2,365,308	—	—

Government (Civic Center)	16.5	1000sqft	0.38	16,500	32,322	—	—	Fire Station/Public Works
Single Family Housing	2,313	Dwelling Unit	751	4,510,350	27,091,838	—	7,471	—
Apartments Low Rise	541	Dwelling Unit	33.8	573,460	178,073	—	1,747	—
User Defined Industrial	4,200	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	122	Acre	122	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	1,400	1000sqft	32.1	1,400,000	305,225	—	—	—
Strip Mall	300	1000sqft	6.89	300,000	154,899	—	—	—
General Office Building	240	1000sqft	5.51	240,000	111,601	—	—	—
Elementary School	600	Student	1.15	50,162	71,351	71,351	—	—
Refrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	305,225	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures

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.	456	440	220	1,417	4.05	4.94	352	357	4.65	90.0	94.6	6,443	484,043	490,486	671	39.1	1,221	520,125
Mit.	456	440	220	1,417	4.05	4.94	352	357	4.65	90.0	94.6	6,423	483,445	489,868	669	39.0	1,221	519,434
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	398	386	228	916	3.86	4.50	352	356	4.31	90.0	94.3	6,443	465,283	471,726	671	39.5	952	501,227
Mit.	398	386	228	916	3.86	4.50	352	356	4.31	90.0	94.3	6,423	464,685	471,108	669	39.4	952	500,536
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	406	393	196	1,067	3.45	3.79	306	310	3.55	78.4	81.9	6,443	423,195	429,639	670	36.4	1,052	458,280
Mit.	406	393	196	1,067	3.45	3.79	306	310	3.55	78.4	81.9	6,423	422,597	429,020	668	36.3	1,052	457,589
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	74.1	71.7	35.8	195	0.63	0.69	55.9	56.6	0.65	14.3	14.9	1,067	70,065	71,132	111	6.03	174	75,873
Mit.	74.1	71.7	35.8	195	0.63	0.69	55.9	56.6	0.65	14.3	14.9	1,063	69,966	71,029	111	6.02	174	75,759
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	163	151	199	1,032	4.00	3.72	352	355	3.54	90.0	93.5	—	415,191	415,191	12.7	32.7	277	425,517

Area	287	283	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,816	56,816	7.19	0.87	—	57,255
Water	—	—	—	—	—	—	—	—	—	—	—	2,217	8,057	10,274	228	5.52	—	17,629
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	456	440	220	1,417	4.05	4.94	352	357	4.65	90.0	94.6	6,443	484,043	490,486	671	39.1	1,221	520,125
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	158	146	211	902	3.83	3.72	352	355	3.54	90.0	93.5	—	397,724	397,724	13.3	33.1	7.18	407,917
Area	235	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,816	56,816	7.19	0.87	—	57,255
Water	—	—	—	—	—	—	—	—	—	—	—	2,217	8,057	10,274	228	5.52	—	17,629
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	398	386	228	916	3.86	4.50	352	356	4.31	90.0	94.3	6,443	465,283	471,726	671	39.5	952	501,227
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	135	124	192	810	3.44	3.38	306	309	3.21	78.4	81.6	—	357,069	357,069	11.7	30.0	107	366,407
Area	270	268	2.23	255	0.01	0.30	—	0.30	0.23	—	0.23	—	885	885	0.04	0.01	—	888
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,816	56,816	7.19	0.87	—	57,255
Water	—	—	—	—	—	—	—	—	—	—	—	2,217	8,057	10,274	228	5.52	—	17,629
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	0.79	0.72	2.31	1.83	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	368	368	0.01	< 0.005	0.00	369
Total	406	393	196	1,067	3.45	3.79	306	310	3.55	78.4	81.9	6,443	423,195	429,639	670	36.4	1,052	458,280

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.6	22.7	35.0	148	0.63	0.62	55.9	56.5	0.59	14.3	14.9	—	59,117	59,117	1.94	4.97	17.8	60,663
Area	49.4	48.9	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9,407	9,407	1.19	0.14	—	9,479
Water	—	—	—	—	—	—	—	—	—	—	—	367	1,334	1,701	37.8	0.91	—	2,919
Waste	—	—	—	—	—	—	—	—	—	—	—	700	0.00	700	69.9	0.00	—	2,448
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	156
Stationary	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1
Total	74.1	71.7	35.8	195	0.63	0.69	55.9	56.6	0.65	14.3	14.9	1,067	70,065	71,132	111	6.03	174	75,873

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	163	151	199	1,032	4.00	3.72	352	355	3.54	90.0	93.5	—	415,191	415,191	12.7	32.7	277	425,517
Area	287	283	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,270	56,270	7.12	0.86	—	56,706
Water	—	—	—	—	—	—	—	—	—	—	—	2,196	8,004	10,201	226	5.47	—	17,487
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	456	440	220	1,417	4.05	4.94	352	357	4.65	90.0	94.6	6,423	483,445	489,868	669	39.0	1,221	519,434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	158	146	211	902	3.83	3.72	352	355	3.54	90.0	93.5	—	397,724	397,724	13.3	33.1	7.18	407,917

Area	235	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,270	56,270	7.12	0.86	—	56,706
Water	—	—	—	—	—	—	—	—	—	—	—	2,196	8,004	10,201	226	5.47	—	17,487
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	398	386	228	916	3.86	4.50	352	356	4.31	90.0	94.3	6,423	464,685	471,108	669	39.4	952	500,536
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	135	124	192	810	3.44	3.38	306	309	3.21	78.4	81.6	—	357,069	357,069	11.7	30.0	107	366,407
Area	270	268	2.23	255	0.01	0.30	—	0.30	0.23	—	0.23	—	885	885	0.04	0.01	—	888
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	56,270	56,270	7.12	0.86	—	56,706
Water	—	—	—	—	—	—	—	—	—	—	—	2,196	8,004	10,201	226	5.47	—	17,487
Waste	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Stationary	0.79	0.72	2.31	1.83	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	368	368	0.01	< 0.005	0.00	369
Total	406	393	196	1,067	3.45	3.79	306	310	3.55	78.4	81.9	6,423	422,597	429,020	668	36.3	1,052	457,589
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.6	22.7	35.0	148	0.63	0.62	55.9	56.5	0.59	14.3	14.9	—	59,117	59,117	1.94	4.97	17.8	60,663
Area	49.4	48.9	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9,316	9,316	1.18	0.14	—	9,388
Water	—	—	—	—	—	—	—	—	—	—	—	364	1,325	1,689	37.5	0.91	—	2,895
Waste	—	—	—	—	—	—	—	—	—	—	—	700	0.00	700	69.9	0.00	—	2,448
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	156
Stationary	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1
Total	74.1	71.7	35.8	195	0.63	0.69	55.9	56.6	0.65	14.3	14.9	1,063	69,966	71,029	111	6.02	174	75,759

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	21.8	20.6	7.40	163	0.41	0.11	46.7	46.8	0.10	11.8	11.9	—	41,325	41,325	1.34	1.05	17.9	41,691
City Park	16.0	15.3	7.81	71.9	0.17	0.09	17.4	17.4	0.08	4.40	4.48	—	17,390	17,390	0.94	0.95	9.77	17,705
Government (Civic Center)	0.27	0.25	0.17	1.91	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	559	559	0.02	0.02	0.33	567
Single Family Housing	49.7	46.7	29.0	306	0.84	0.40	88.0	88.4	0.37	22.3	22.7	—	85,507	85,507	3.41	3.84	49.5	86,788
Apartments Low Rise	9.15	8.59	5.33	56.3	0.15	0.07	16.2	16.3	0.07	4.10	4.17	—	15,727	15,727	0.63	0.71	9.11	15,962
User Defined Industrial	5.10	2.49	120	32.0	1.37	2.65	68.5	71.1	2.53	18.3	20.8	—	147,413	147,413	2.38	22.0	134	154,174
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	19.6	18.6	6.68	147	0.37	0.09	42.1	42.2	0.09	10.6	10.7	—	37,270	37,270	1.21	0.95	16.2	37,600

Strip Mall	30.3	28.5	17.7	187	0.51	0.24	53.6	53.9	0.23	13.6	13.8	—	52,132	52,132	2.08	2.34	30.2	52,912
General Office Building	6.08	5.67	3.82	42.2	0.12	0.06	12.7	12.8	0.05	3.22	3.28	—	12,267	12,267	0.45	0.52	7.16	12,441
Elementary School	2.71	2.62	1.11	8.41	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,512	1,512	0.14	0.12	0.78	1,552
Refrigerated Warehouse-No Rail	2.15	2.04	0.73	16.1	0.04	0.01	4.62	4.63	0.01	1.17	1.18	—	4,088	4,088	0.13	0.10	1.77	4,124
Total	163	151	199	1,032	4.00	3.72	352	355	3.54	90.0	93.5	—	415,191	415,191	12.7	32.7	277	425,517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	21.1	19.9	8.10	139	0.38	0.11	46.7	46.8	0.10	11.8	11.9	—	38,245	38,245	1.43	1.12	0.47	38,615
City Park	15.5	14.7	8.36	66.1	0.16	0.09	17.4	17.4	0.08	4.40	4.48	—	16,359	16,359	1.00	0.98	0.25	16,675
Government (Civic Center)	0.26	0.24	0.18	1.63	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	524	524	0.02	0.02	0.01	532
Single Family Housing	48.1	45.0	31.1	267	0.78	0.40	88.0	88.4	0.37	22.3	22.7	—	80,250	80,250	3.59	3.97	1.28	81,523
Apartments Low Rise	8.84	8.28	5.72	49.2	0.14	0.07	16.2	16.3	0.07	4.10	4.17	—	14,760	14,760	0.66	0.73	0.24	14,994
User Defined Industrial	5.01	2.41	125	32.1	1.37	2.65	68.5	71.1	2.53	18.3	20.8	—	147,446	147,446	2.38	22.0	3.48	154,080
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrig Warehouse-No Rail	19.0	18.0	7.30	125	0.34	0.09	42.1	42.2	0.09	10.6	10.7	—	34,492	34,492	1.29	1.01	0.42	34,826
Strip Mall	29.3	27.5	19.0	163	0.48	0.24	53.6	53.9	0.23	13.6	13.8	—	48,927	48,927	2.19	2.42	0.78	49,703
General Office Building	5.88	5.46	4.10	36.3	0.11	0.06	12.7	12.8	0.05	3.22	3.28	—	11,506	11,506	0.47	0.54	0.19	11,679
Elementary School	2.62	2.52	1.18	8.36	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,431	1,431	0.15	0.12	0.02	1,471
Refrigerated Warehouse-No Rail	2.09	1.97	0.80	13.8	0.04	0.01	4.62	4.63	0.01	1.17	1.18	—	3,783	3,783	0.14	0.11	0.05	3,820
Total	158	146	211	902	3.83	3.72	352	355	3.54	90.0	93.5	—	397,724	397,724	13.3	33.1	7.18	407,917
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.59	3.39	1.43	24.8	0.07	0.02	7.92	7.93	0.02	2.00	2.01	—	6,051	6,051	0.22	0.18	1.21	6,111
City Park	1.46	1.39	0.80	6.50	0.02	0.01	1.64	1.64	0.01	0.41	0.42	—	1,435	1,435	0.09	0.09	0.37	1,463
Government (Civic Center)	0.05	0.04	0.03	0.31	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	87.6	87.6	< 0.005	< 0.005	0.02	88.9
Single Family Housing	8.48	7.93	5.59	49.1	0.14	0.07	15.4	15.5	0.07	3.91	3.98	—	13,112	13,112	0.58	0.65	3.46	13,323
Apartments Low Rise	1.43	1.34	0.94	8.28	0.02	0.01	2.60	2.61	0.01	0.66	0.67	—	2,209	2,209	0.10	0.11	0.58	2,244
User Defined Industrial	0.85	0.41	21.2	5.35	0.23	0.44	11.3	11.8	0.42	3.02	3.45	—	22,427	22,427	0.36	3.35	8.80	23,444

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.47	2.33	0.98	17.0	0.05	0.01	5.44	5.45	0.01	1.37	1.38	—	4,157	4,157	0.15	0.12	0.83	4,198
Strip Mall	4.83	4.52	3.18	28.0	0.08	0.04	8.79	8.83	0.04	2.23	2.27	—	7,468	7,468	0.33	0.37	1.97	7,588
General Office Building	0.80	0.74	0.57	5.14	0.02	0.01	1.72	1.73	0.01	0.44	0.44	—	1,447	1,447	0.06	0.07	0.39	1,469
Elementary School	0.34	0.32	0.15	1.11	< 0.005	< 0.005	0.18	0.18	< 0.005	0.05	0.05	—	171	171	0.02	0.01	0.04	175
Refrigerated Warehouse-No Rail	0.33	0.31	0.13	2.27	0.01	< 0.005	0.72	0.73	< 0.005	0.18	0.18	—	553	553	0.02	0.02	0.11	559
Total	24.6	22.7	35.0	148	0.63	0.62	55.9	56.5	0.59	14.3	14.9	—	59,117	59,117	1.94	4.97	17.8	60,663

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	21.8	20.6	7.40	163	0.41	0.11	46.7	46.8	0.10	11.8	11.9	—	41,325	41,325	1.34	1.05	17.9	41,691
City Park	16.0	15.3	7.81	71.9	0.17	0.09	17.4	17.4	0.08	4.40	4.48	—	17,390	17,390	0.94	0.95	9.77	17,705

Government (Civic Center)	0.27	0.25	0.17	1.91	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	559	559	0.02	0.02	0.33	567
Single Family Housing	49.7	46.7	29.0	306	0.84	0.40	88.0	88.4	0.37	22.3	22.7	—	85,507	85,507	3.41	3.84	49.5	86,788
Apartments Low Rise	9.15	8.59	5.33	56.3	0.15	0.07	16.2	16.3	0.07	4.10	4.17	—	15,727	15,727	0.63	0.71	9.11	15,962
User Defined Industrial	5.10	2.49	120	32.0	1.37	2.65	68.5	71.1	2.53	18.3	20.8	—	147,413	147,413	2.38	22.0	134	154,174
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	19.6	18.6	6.68	147	0.37	0.09	42.1	42.2	0.09	10.6	10.7	—	37,270	37,270	1.21	0.95	16.2	37,600
Strip Mall	30.3	28.5	17.7	187	0.51	0.24	53.6	53.9	0.23	13.6	13.8	—	52,132	52,132	2.08	2.34	30.2	52,912
General Office Building	6.08	5.67	3.82	42.2	0.12	0.06	12.7	12.8	0.05	3.22	3.28	—	12,267	12,267	0.45	0.52	7.16	12,441
Elementary School	2.71	2.62	1.11	8.41	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,512	1,512	0.14	0.12	0.78	1,552
Refrigerated Warehouse-No Rail	2.15	2.04	0.73	16.1	0.04	0.01	4.62	4.63	0.01	1.17	1.18	—	4,088	4,088	0.13	0.10	1.77	4,124
Total	163	151	199	1,032	4.00	3.72	352	355	3.54	90.0	93.5	—	415,191	415,191	12.7	32.7	277	425,517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	21.1	19.9	8.10	139	0.38	0.11	46.7	46.8	0.10	11.8	11.9	—	38,245	38,245	1.43	1.12	0.47	38,615
City Park	15.5	14.7	8.36	66.1	0.16	0.09	17.4	17.4	0.08	4.40	4.48	—	16,359	16,359	1.00	0.98	0.25	16,675
Government (Civic Center)	0.26	0.24	0.18	1.63	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	524	524	0.02	0.02	0.01	532
Single Family Housing	48.1	45.0	31.1	267	0.78	0.40	88.0	88.4	0.37	22.3	22.7	—	80,250	80,250	3.59	3.97	1.28	81,523
Apartments Low Rise	8.84	8.28	5.72	49.2	0.14	0.07	16.2	16.3	0.07	4.10	4.17	—	14,760	14,760	0.66	0.73	0.24	14,994
User Defined Industrial	5.01	2.41	125	32.1	1.37	2.65	68.5	71.1	2.53	18.3	20.8	—	147,446	147,446	2.38	22.0	3.48	154,080
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	19.0	18.0	7.30	125	0.34	0.09	42.1	42.2	0.09	10.6	10.7	—	34,492	34,492	1.29	1.01	0.42	34,826
Strip Mall	29.3	27.5	19.0	163	0.48	0.24	53.6	53.9	0.23	13.6	13.8	—	48,927	48,927	2.19	2.42	0.78	49,703
General Office Building	5.88	5.46	4.10	36.3	0.11	0.06	12.7	12.8	0.05	3.22	3.28	—	11,506	11,506	0.47	0.54	0.19	11,679
Elementary School	2.62	2.52	1.18	8.36	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,431	1,431	0.15	0.12	0.02	1,471
Refrigerated Warehouse-No Rail	2.09	1.97	0.80	13.8	0.04	0.01	4.62	4.63	0.01	1.17	1.18	—	3,783	3,783	0.14	0.11	0.05	3,820

Total	158	146	211	902	3.83	3.72	352	355	3.54	90.0	93.5	—	397,724	397,724	13.3	33.1	7.18	407,917
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.59	3.39	1.43	24.8	0.07	0.02	7.92	7.93	0.02	2.00	2.01	—	6,051	6,051	0.22	0.18	1.21	6,111
City Park	1.46	1.39	0.80	6.50	0.02	0.01	1.64	1.64	0.01	0.41	0.42	—	1,435	1,435	0.09	0.09	0.37	1,463
Government (Civic Center)	0.05	0.04	0.03	0.31	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	87.6	87.6	< 0.005	< 0.005	0.02	88.9
Single Family Housing	8.48	7.93	5.59	49.1	0.14	0.07	15.4	15.5	0.07	3.91	3.98	—	13,112	13,112	0.58	0.65	3.46	13,323
Apartments Low Rise	1.43	1.34	0.94	8.28	0.02	0.01	2.60	2.61	0.01	0.66	0.67	—	2,209	2,209	0.10	0.11	0.58	2,244
User Defined Industrial	0.85	0.41	21.2	5.35	0.23	0.44	11.3	11.8	0.42	3.02	3.45	—	22,427	22,427	0.36	3.35	8.80	23,444
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.47	2.33	0.98	17.0	0.05	0.01	5.44	5.45	0.01	1.37	1.38	—	4,157	4,157	0.15	0.12	0.83	4,198
Strip Mall	4.83	4.52	3.18	28.0	0.08	0.04	8.79	8.83	0.04	2.23	2.27	—	7,468	7,468	0.33	0.37	1.97	7,588
General Office Building	0.80	0.74	0.57	5.14	0.02	0.01	1.72	1.73	0.01	0.44	0.44	—	1,447	1,447	0.06	0.07	0.39	1,469
Elementary School	0.34	0.32	0.15	1.11	< 0.005	< 0.005	0.18	0.18	< 0.005	0.05	0.05	—	171	171	0.02	0.01	0.04	175

Refrigerated Wareho Rail	0.33	0.31	0.13	2.27	0.01	< 0.005	0.72	0.73	< 0.005	0.18	0.18	—	553	553	0.02	0.02	0.11	559
Total	24.6	22.7	35.0	148	0.63	0.62	55.9	56.5	0.59	14.3	14.9	—	59,117	59,117	1.94	4.97	17.8	60,663

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	15,434	15,434	1.95	0.24	—	15,554
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,647	2,647	0.33	0.04	—	2,667
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	233	233	0.03	< 0.005	—	235
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	56,816	56,816	7.19	0.87	—	57,255
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	15,434	15,434	1.95	0.24	—	15,554
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,647	2,647	0.33	0.04	—	2,667
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	233	233	0.03	< 0.005	—	235
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	56,816	56,816	7.19	0.87	—	57,255
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,555	2,555	0.32	0.04	—	2,575
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	438	438	0.06	0.01	—	442

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	549	549	0.07	0.01	—	553
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	495	495	0.06	0.01	—	499
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	38.6	38.6	< 0.005	< 0.005	—	38.9
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,407	9,407	1.19	0.14	—	9,479

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	14,983	14,983	1.90	0.23	—	15,099
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.32	0.04	—	2,572
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	233	233	0.03	< 0.005	—	235
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	56,270	56,270	7.12	0.86	—	56,706

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	14,983	14,983	1.90	0.23	—	15,099
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,552	2,552	0.32	0.04	—	2,572
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	233	233	0.03	< 0.005	—	235

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	56,270	56,270	7.12	0.86	—	56,706
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	2,481	2,481	0.31	0.04	—	2,500
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	422	422	0.05	0.01	—	426
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	549	549	0.07	0.01	—	553
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	495	495	0.06	0.01	—	499

Elementary	—	—	—	—	—	—	—	—	—	—	—	—	38.6	38.6	< 0.005	< 0.005	—	38.9
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,316	9,316	1.18	0.14	—	9,388

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Refrigerated Wareho Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Elementary	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	213	213	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	21.3	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	52.1	48.4	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Total	287	283	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	213	213	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	21.3	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	235	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	38.9	38.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.89	3.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.51	6.05	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147
Total	49.4	48.9	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	213	213	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	21.3	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	52.1	48.4	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Total	287	283	3.25	372	0.02	0.44	—	0.44	0.34	—	0.34	—	1,293	1,293	0.05	0.01	—	1,297
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	213	213	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	21.3	21.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	235	235	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	38.9	38.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.89	3.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	6.51	6.05	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147
Total	49.4	48.9	0.41	46.5	< 0.005	0.06	—	0.06	0.04	—	0.04	—	147	147	0.01	< 0.005	—	147

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	316	316	0.04	< 0.005	—	318
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	180	2,448	2,629	18.8	0.48	—	3,240
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	42.2	120	162	4.34	0.10	—	302
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301

General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2.79	16.6	19.4	0.29	0.01	—	28.7
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,217	8,057	10,274	228	5.52	—	17,629
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	316	316	0.04	< 0.005	—	318
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	180	2,448	2,629	18.8	0.48	—	3,240
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	42.2	120	162	4.34	0.10	—	302
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2.79	16.6	19.4	0.29	0.01	—	28.7
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,217	8,057	10,274	228	5.52	—	17,629
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	52.3	52.3	0.01	< 0.005	—	52.7
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	29.8	405	435	3.11	0.08	—	536
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.98	19.9	26.9	0.72	0.02	—	50.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	264	366	10.6	0.25	—	706
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	13.5	35.5	49.0	1.39	0.03	—	93.8
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.46	2.75	3.21	0.05	< 0.005	—	4.75
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	355
Total	—	—	—	—	—	—	—	—	—	—	—	367	1,334	1,701	37.8	0.91	—	2,919

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	316	316	0.04	< 0.005	—	318

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	164	2,406	2,569	17.1	0.44	—	3,126
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	38.3	110	148	3.94	0.09	—	275
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2.79	16.6	19.4	0.29	0.01	—	28.7
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142
Total	—	—	—	—	—	—	—	—	—	—	—	2,196	8,004	10,201	226	5.47	—	17,487
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	316	316	0.04	< 0.005	—	318
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	164	2,406	2,569	17.1	0.44	—	3,126
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	38.3	110	148	3.94	0.09	—	275
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,593	2,213	63.8	1.54	—	4,266
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	2.79	16.6	19.4	0.29	0.01	—	28.7
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	806	1,116	31.9	0.77	—	2,142

Total	—	—	—	—	—	—	—	—	—	—	—	2,196	8,004	10,201	226	5.47	—	17,487
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	52.3	52.3	0.01	< 0.005	—	52.7
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	27.1	398	425	2.83	0.07	—	518
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	6.33	18.2	24.6	0.65	0.02	—	45.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	264	366	10.6	0.25	—	706
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	13.5	35.5	49.0	1.39	0.03	—	93.8
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.46	2.75	3.21	0.05	< 0.005	—	4.75

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	133	185	5.28	0.13	—	355
Total	—	—	—	—	—	—	—	—	—	—	—	364	1,325	1,689	37.5	0.91	—	2,895

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	2.52	0.00	2.52	0.25	0.00	—	8.81
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,141	0.00	1,141	114	0.00	—	3,993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	216	0.00	216	21.5	0.00	—	754
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.90	0.00	—	206
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	2.52	0.00	2.52	0.25	0.00	—	8.81
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,141	0.00	1,141	114	0.00	—	3,993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	216	0.00	216	21.5	0.00	—	754
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.90	0.00	—	206
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	35.7	0.00	35.7	3.57	0.00	—	125

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	19.9	0.00	19.9	1.99	0.00	—	69.7
Elementary School	—	—	—	—	—	—	—	—	—	—	—	9.77	0.00	9.77	0.98	0.00	—	34.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	700	0.00	700	69.9	0.00	—	2,448

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910

City Park	—	—	—	—	—	—	—	—	—	—	—	2.52	0.00	2.52	0.25	0.00	—	8.81
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,141	0.00	1,141	114	0.00	—	3,993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	216	0.00	216	21.5	0.00	—	754
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.90	0.00	—	206
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	2.52	0.00	2.52	0.25	0.00	—	8.81
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,141	0.00	1,141	114	0.00	—	3,993
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	216	0.00	216	21.5	0.00	—	754
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	59.0	0.00	59.0	5.90	0.00	—	206

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,226	0.00	4,226	422	0.00	—	14,787
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.42	0.00	0.42	0.04	0.00	—	1.46
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	189	0.00	189	18.9	0.00	—	661
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	35.7	0.00	35.7	3.57	0.00	—	125
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	19.9	0.00	19.9	1.99	0.00	—	69.7

Elementary	—	—	—	—	—	—	—	—	—	—	—	9.77	0.00	9.77	0.98	0.00	—	34.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	700	0.00	700	69.9	0.00	—	2,448

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.9	28.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.67	3.67
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.9	28.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.67	3.67
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.78	4.78
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	156

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.9	28.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.67	3.67
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	28.9	28.9
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.67	3.67
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14	0.14
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	944	944
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4.78	4.78
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.61	0.61
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	156	156

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	45.7	45.7	< 0.005	< 0.005	0.00	45.8
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	45.7	45.7	< 0.005	< 0.005	0.00	45.8
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	67,100	54,420	53,738	23,133,488
City Park	2,716	6,825	7,626	1,461,583	8,751	21,991	24,571	4,709,457
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	21,812	22,043	19,755	7,866,072	123,229	124,536	111,612	44,441,100
Apartments Low Rise	3,646	4,054	3,128	1,325,018	20,598	22,905	17,673	7,485,982
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	60,515	1,607	639	15,894,381
Strip Mall	13,452	12,612	6,129	4,484,338	75,924	71,183	34,592	25,309,770
General Office Building	2,602	530	168	714,816	18,002	3,669	1,162	4,945,230

Elementary School	1,362	0.00	0.00	355,093	1,968	0.00	0.00	513,170
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,637	3,766	3,607	2,114,909

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	67,100	54,420	53,738	23,133,488
City Park	2,716	6,825	7,626	1,461,583	8,751	21,991	24,571	4,709,457
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	21,812	22,043	19,755	7,866,072	123,229	124,536	111,612	44,441,100
Apartments Low Rise	3,646	4,054	3,128	1,325,018	20,598	22,905	17,673	7,485,982
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	60,515	1,607	639	15,894,381
Strip Mall	13,452	12,612	6,129	4,484,338	75,924	71,183	34,592	25,309,770
General Office Building	2,602	530	168	714,816	18,002	3,669	1,162	4,945,230
Elementary School	1,362	0.00	0.00	355,093	1,968	0.00	0.00	513,170
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,637	3,766	3,607	2,114,909

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
10294715.25	3,431,572	7,209,993	2,403,331	317,735

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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	21,601,671	261	0.0330	0.0040	0.00
Apartments Low Rise	3,704,114	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

Parking Lot	4,638,936	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
General Office Building	4,186,361	261	0.0330	0.0040	0.00
Elementary School	326,458	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	20,970,673	261	0.0330	0.0040	0.00
Apartments Low Rise	3,571,516	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	4,638,936	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
General Office Building	4,186,361	261	0.0330	0.0040	0.00
Elementary School	326,458	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	485,625,000	11,999,776
City Park	0.00	83,341,422
Government (Civic Center)	3,277,885	512,488
Single Family Housing	94,078,442	525,018,208
Apartments Low Rise	22,004,512	3,450,913
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	4,839,559
Strip Mall	22,221,756	2,456,034
General Office Building	42,656,100	1,769,513
Elementary School	1,454,544	2,514,046
Refrigerated Warehouse-No Rail	161,875,000	4,839,559

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	485,625,000	11,999,776
City Park	0.00	83,341,422
Government (Civic Center)	3,277,885	512,488
Single Family Housing	85,357,370	525,018,208
Apartments Low Rise	19,964,694	3,450,913
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	4,839,559
Strip Mall	22,221,756	2,456,034
General Office Building	42,656,100	1,769,513

Elementary School	1,454,544	2,514,046
Refrigerated Warehouse-No Rail	161,875,000	4,839,559

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	4.67	—
Government (Civic Center)	94.0	—
Single Family Housing	2,118	—
Apartments Low Rise	400	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
General Office Building	223	—
Elementary School	110	—
Refrigerated Warehouse-No Rail	658	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	4.67	—
Government (Civic Center)	94.0	—
Single Family Housing	2,118	—
Apartments Low Rise	400	—
User Defined Industrial	0.00	—

Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
General Office Building	223	—
Elementary School	110	—
Refrigerated Warehouse-No Rail	658	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0

Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	1.00	1.00	50.0	800	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885

Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0

Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
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	Trip characteristics adjusted based on the Project traffic study and to separate industrial trucks and passenger vehicles.
Operations: Fleet Mix	Fleet mix adjusted to separate industrial trucks and passenger vehicles.
Operations: Hearths	No wood burning fireplaces or stoves per SCAQMD Rule 445. Project will not use natural gas.
Operations: Energy Use	Project will not use natural gas.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	15218 Mesa Verde Ph5 Ops HCCS
Operational Year	2045
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	25.8
Location	33.996623456155106, -117.07438392497613
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.28

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
General Light Industry	2,100	1000sqft	48.2	2,100,000	756,811	—	—	—
City Park	66.5	Acre	66.5	0.00	2,896,740	2,896,740	—	—

Government (Civic Center)	16.5	1000sqft	0.38	16,500	32,322	—	—	Fire Station/Public Works
Single Family Housing	2,860	Dwelling Unit	929	5,577,000	33,498,771	—	9,238	—
Apartments Low Rise	790	Dwelling Unit	49.4	837,400	259,792	—	2,552	—
User Defined Industrial	4,200	User Defined Unit	0.00	0.00	0.00	—	—	—
Parking Lot	122	Acre	122	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	1,400	1000sqft	32.1	1,400,000	610,450	—	—	—
Strip Mall	300	1000sqft	6.89	300,000	154,899	—	—	—
General Office Building	240	1000sqft	5.51	240,000	111,601	—	—	—
Elementary School	1,200	Student	2.30	100,324	134,165	134,165	—	—
Refrigerated Warehouse-No Rail	700	1000sqft	16.1	700,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-2	Require Energy Efficient Appliances
Water	W-4	Require Low-Flow Water Fixtures

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.	495	479	222	1,506	4.20	4.92	376	381	4.62	96.1	101	6,937	504,824	511,761	721	40.1	1,088	542,828
Mit.	495	479	222	1,506	4.20	4.92	376	381	4.62	96.1	101	6,911	504,061	510,972	718	40.0	1,088	541,946
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	434	422	230	952	3.99	4.45	376	380	4.27	96.1	100	6,937	484,824	491,761	722	40.5	957	522,836
Mit.	434	422	230	952	3.99	4.45	376	380	4.27	96.1	100	6,911	484,062	490,972	719	40.5	957	521,954
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	444	431	198	1,131	3.58	3.76	327	331	3.52	83.6	87.2	6,937	441,160	448,098	720	37.3	1,005	478,226
Mit.	444	431	198	1,131	3.58	3.76	327	331	3.52	83.6	87.2	6,911	440,398	447,308	717	37.3	1,005	477,344
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	81.0	78.7	36.1	206	0.65	0.69	59.7	60.4	0.64	15.3	15.9	1,149	73,039	74,188	119	6.18	166	79,176
Mit.	81.0	78.7	36.1	206	0.65	0.69	59.7	60.4	0.64	15.3	15.9	1,144	72,913	74,057	119	6.17	166	79,030
% Reduced	—	—	—	—	—	—	—	—	—	—	—	< 0.5%	< 0.5%	< 0.5%	< 0.5%	< 0.5%	—	< 0.5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	166	154	201	1,073	4.15	3.68	376	380	3.50	96.1	99.6	—	430,020	430,020	12.6	33.4	135	440,435

Area	324	320	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,917	61,917	7.83	0.95	—	62,396
Water	—	—	—	—	—	—	—	—	—	—	—	2,282	8,777	11,059	235	5.69	—	18,633
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	495	479	222	1,506	4.20	4.92	376	381	4.62	96.1	101	6,937	504,824	511,761	721	40.1	1,088	542,828
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	161	150	213	939	3.97	3.68	376	380	3.50	96.1	99.6	—	411,443	411,443	13.2	33.9	3.49	421,871
Area	267	267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,917	61,917	7.83	0.95	—	62,396
Water	—	—	—	—	—	—	—	—	—	—	—	2,282	8,777	11,059	235	5.69	—	18,633
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	434	422	230	952	3.99	4.45	376	380	4.27	96.1	100	6,937	484,824	491,761	722	40.5	957	522,836
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	137	127	193	842	3.56	3.34	327	330	3.17	83.6	86.8	—	369,124	369,124	11.6	30.7	52.3	378,609
Area	306	303	2.53	287	0.01	0.32	—	0.32	0.24	—	0.24	—	974	974	0.04	0.01	—	978
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,917	61,917	7.83	0.95	—	62,396
Water	—	—	—	—	—	—	—	—	—	—	—	2,282	8,777	11,059	235	5.69	—	18,633
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	0.79	0.72	2.31	1.83	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	368	368	0.01	< 0.005	0.00	369
Total	444	431	198	1,131	3.58	3.76	327	331	3.52	83.6	87.2	6,937	441,160	448,098	720	37.3	1,005	478,226

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.1	23.2	35.2	154	0.65	0.61	59.7	60.3	0.58	15.3	15.8	—	61,113	61,113	1.92	5.08	8.65	62,683
Area	55.8	55.3	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	10,251	10,251	1.30	0.16	—	10,330
Water	—	—	—	—	—	—	—	—	—	—	—	378	1,453	1,831	38.9	0.94	—	3,085
Waste	—	—	—	—	—	—	—	—	—	—	—	771	0.00	771	77.0	0.00	—	2,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	158	158
Stationary	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1
Total	81.0	78.7	36.1	206	0.65	0.69	59.7	60.4	0.64	15.3	15.9	1,149	73,039	74,188	119	6.18	166	79,176

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	166	154	201	1,073	4.15	3.68	376	380	3.50	96.1	99.6	—	430,020	430,020	12.6	33.4	135	440,435
Area	324	320	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,222	61,222	7.75	0.94	—	61,695
Water	—	—	—	—	—	—	—	—	—	—	—	2,255	8,710	10,966	232	5.63	—	18,452
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	495	479	222	1,506	4.20	4.92	376	381	4.62	96.1	101	6,911	504,061	510,972	718	40.0	1,088	541,946
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	161	150	213	939	3.97	3.68	376	380	3.50	96.1	99.6	—	411,443	411,443	13.2	33.9	3.49	421,871

Area	267	267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,222	61,222	7.75	0.94	—	61,695
Water	—	—	—	—	—	—	—	—	—	—	—	2,255	8,710	10,966	232	5.63	—	18,452
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Total	434	422	230	952	3.99	4.45	376	380	4.27	96.1	100	6,911	484,062	490,972	719	40.5	957	521,954
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	137	127	193	842	3.56	3.34	327	330	3.17	83.6	86.8	—	369,124	369,124	11.6	30.7	52.3	378,609
Area	306	303	2.53	287	0.01	0.32	—	0.32	0.24	—	0.24	—	974	974	0.04	0.01	—	978
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	61,222	61,222	7.75	0.94	—	61,695
Water	—	—	—	—	—	—	—	—	—	—	—	2,255	8,710	10,966	232	5.63	—	18,452
Waste	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Stationary	0.79	0.72	2.31	1.83	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	368	368	0.01	< 0.005	0.00	369
Total	444	431	198	1,131	3.58	3.76	327	331	3.52	83.6	87.2	6,911	440,398	447,308	717	37.3	1,005	477,344
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.1	23.2	35.2	154	0.65	0.61	59.7	60.3	0.58	15.3	15.8	—	61,113	61,113	1.92	5.08	8.65	62,683
Area	55.8	55.3	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	10,136	10,136	1.28	0.16	—	10,214
Water	—	—	—	—	—	—	—	—	—	—	—	373	1,442	1,816	38.5	0.93	—	3,055
Waste	—	—	—	—	—	—	—	—	—	—	—	771	0.00	771	77.0	0.00	—	2,697
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	158	158
Stationary	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1
Total	81.0	78.7	36.1	206	0.65	0.69	59.7	60.4	0.64	15.3	15.9	1,144	72,913	74,057	119	6.17	166	79,030

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	20.0	18.9	6.80	155	0.40	0.09	46.4	46.5	0.08	11.7	11.8	—	40,418	40,418	1.24	1.01	7.57	40,758
City Park	17.5	16.7	9.06	83.7	0.20	0.09	21.2	21.3	0.09	5.39	5.47	—	20,782	20,782	1.02	1.11	5.49	21,145
Government (Civic Center)	0.24	0.22	0.16	1.81	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	545	545	0.02	0.02	0.15	552
Single Family Housing	54.6	51.4	32.9	351	0.98	0.42	105	106	0.40	26.7	27.1	—	99,856	99,856	3.64	4.46	27.1	101,303
Apartments Low Rise	11.9	11.2	7.15	76.2	0.21	0.09	22.8	22.9	0.09	5.79	5.88	—	21,699	21,699	0.79	0.97	5.90	22,013
User Defined Industrial	4.61	2.15	116	27.5	1.34	2.61	68.2	70.8	2.49	18.2	20.7	—	143,840	143,840	2.26	21.9	63.6	150,488
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	18.0	17.0	6.14	140	0.36	0.08	41.8	41.9	0.08	10.6	10.6	—	36,452	36,452	1.12	0.91	6.83	36,758

Strip Mall	26.7	25.2	15.9	167	0.46	0.20	49.5	49.7	0.19	12.6	12.7	—	47,122	47,122	1.76	2.13	12.8	47,814
General Office Building	5.43	5.07	3.54	40.1	0.12	0.05	12.7	12.8	0.05	3.22	3.27	—	11,962	11,962	0.39	0.50	3.28	12,125
Elementary School	4.83	4.68	2.13	16.0	0.03	0.02	2.79	2.81	0.01	0.71	0.72	—	2,966	2,966	0.24	0.23	0.72	3,041
Refrigerated Warehouse-No Rail	2.00	1.87	1.30	14.7	0.04	0.02	4.65	4.67	0.02	1.18	1.20	—	4,380	4,380	0.14	0.18	1.20	4,439
Total	166	154	201	1,073	4.15	3.68	376	380	3.50	96.1	99.6	—	430,020	430,020	12.6	33.4	135	440,435
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	19.4	18.4	7.44	132	0.37	0.09	46.4	46.5	0.08	11.7	11.8	—	37,406	37,406	1.31	1.07	0.20	37,759
City Park	17.0	16.2	9.71	76.6	0.19	0.09	21.2	21.3	0.09	5.39	5.47	—	19,541	19,541	1.09	1.15	0.14	19,911
Government (Civic Center)	0.23	0.22	0.17	1.55	< 0.005	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	511	511	0.02	0.02	< 0.005	518
Single Family Housing	53.0	49.7	35.3	306	0.92	0.42	105	106	0.40	26.7	27.1	—	93,678	93,678	3.84	4.60	0.70	95,145
Apartments Low Rise	11.5	10.8	7.68	66.5	0.20	0.09	22.8	22.9	0.09	5.79	5.88	—	20,356	20,356	0.83	1.00	0.15	20,675
User Defined Industrial	4.51	2.06	121	27.7	1.34	2.61	68.2	70.8	2.49	18.2	20.7	—	143,877	143,877	2.26	21.9	1.65	150,465
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Unrefrig Warehouse-No Rail	17.5	16.6	6.71	119	0.33	0.08	41.8	41.9	0.08	10.6	10.6	—	33,736	33,736	1.18	0.97	0.18	34,054
Strip Mall	26.0	24.4	17.1	147	0.43	0.20	49.5	49.7	0.19	12.6	12.7	—	44,213	44,213	1.86	2.20	0.33	44,916
General Office Building	5.27	4.91	3.81	34.3	0.11	0.05	12.7	12.8	0.05	3.22	3.27	—	11,214	11,214	0.41	0.52	0.09	11,378
Elementary School	4.69	4.52	2.28	15.8	0.03	0.02	2.79	2.81	0.01	0.71	0.72	—	2,806	2,806	0.27	0.24	0.02	2,883
Refrigerated Warehouse-No Rail	1.94	1.81	1.40	12.6	0.04	0.02	4.65	4.67	0.02	1.18	1.20	—	4,106	4,106	0.15	0.19	0.03	4,166
Total	161	150	213	939	3.97	3.68	376	380	3.50	96.1	99.6	—	411,443	411,443	13.2	33.9	3.49	421,871
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.31	3.12	1.31	23.5	0.06	0.02	7.86	7.87	0.01	1.98	2.00	—	5,918	5,918	0.21	0.17	0.51	5,974
City Park	1.61	1.53	0.93	7.53	0.02	0.01	2.00	2.01	0.01	0.51	0.52	—	1,714	1,714	0.10	0.10	0.21	1,747
Government (Civic Center)	0.04	0.04	0.03	0.29	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	85.4	85.4	< 0.005	< 0.005	0.01	86.6
Single Family Housing	9.33	8.76	6.33	56.3	0.17	0.08	18.5	18.5	0.07	4.68	4.75	—	15,307	15,307	0.62	0.75	1.90	15,547
Apartments Low Rise	1.86	1.74	1.26	11.2	0.03	0.02	3.67	3.69	0.01	0.93	0.95	—	3,046	3,046	0.12	0.15	0.38	3,094
User Defined Industrial	0.77	0.35	20.6	4.61	0.22	0.44	11.3	11.7	0.42	3.01	3.43	—	21,883	21,883	0.34	3.33	4.18	22,889

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.27	2.14	0.90	16.1	0.04	0.01	5.40	5.41	0.01	1.36	1.37	—	4,066	4,066	0.14	0.12	0.35	4,105
Strip Mall	4.27	4.01	2.85	25.1	0.07	0.03	8.12	8.15	0.03	2.06	2.09	—	6,748	6,748	0.28	0.34	0.83	6,856
General Office Building	0.71	0.67	0.53	4.87	0.02	0.01	1.72	1.72	0.01	0.44	0.44	—	1,411	1,411	0.05	0.06	0.18	1,431
Elementary School	0.60	0.58	0.30	2.10	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	334	334	0.03	0.03	0.04	344
Refrigerated Warehouse-No Rail	0.31	0.28	0.22	2.07	0.01	< 0.005	0.73	0.73	< 0.005	0.18	0.19	—	599	599	0.02	0.03	0.07	608
Total	25.1	23.2	35.2	154	0.65	0.61	59.7	60.3	0.58	15.3	15.8	—	61,113	61,113	1.92	5.08	8.65	62,683

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	20.0	18.9	6.80	155	0.40	0.09	46.4	46.5	0.08	11.7	11.8	—	40,418	40,418	1.24	1.01	7.57	40,758
City Park	17.5	16.7	9.06	83.7	0.20	0.09	21.2	21.3	0.09	5.39	5.47	—	20,782	20,782	1.02	1.11	5.49	21,145

Government (Civic Center)	0.24	0.22	0.16	1.81	0.01	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	545	545	0.02	0.02	0.15	552
Single Family Housing	54.6	51.4	32.9	351	0.98	0.42	105	106	0.40	26.7	27.1	—	99,856	99,856	3.64	4.46	27.1	101,303
Apartments Low Rise	11.9	11.2	7.15	76.2	0.21	0.09	22.8	22.9	0.09	5.79	5.88	—	21,699	21,699	0.79	0.97	5.90	22,013
User Defined Industrial	4.61	2.15	116	27.5	1.34	2.61	68.2	70.8	2.49	18.2	20.7	—	143,840	143,840	2.26	21.9	63.6	150,488
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	18.0	17.0	6.14	140	0.36	0.08	41.8	41.9	0.08	10.6	10.6	—	36,452	36,452	1.12	0.91	6.83	36,758
Strip Mall	26.7	25.2	15.9	167	0.46	0.20	49.5	49.7	0.19	12.6	12.7	—	47,122	47,122	1.76	2.13	12.8	47,814
General Office Building	5.43	5.07	3.54	40.1	0.12	0.05	12.7	12.8	0.05	3.22	3.27	—	11,962	11,962	0.39	0.50	3.28	12,125
Elementary School	4.83	4.68	2.13	16.0	0.03	0.02	2.79	2.81	0.01	0.71	0.72	—	2,966	2,966	0.24	0.23	0.72	3,041
Refrigerated Warehouse-No Rail	2.00	1.87	1.30	14.7	0.04	0.02	4.65	4.67	0.02	1.18	1.20	—	4,380	4,380	0.14	0.18	1.20	4,439
Total	166	154	201	1,073	4.15	3.68	376	380	3.50	96.1	99.6	—	430,020	430,020	12.6	33.4	135	440,435
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	19.4	18.4	7.44	132	0.37	0.09	46.4	46.5	0.08	11.7	11.8	—	37,406	37,406	1.31	1.07	0.20	37,759
City Park	17.0	16.2	9.71	76.6	0.19	0.09	21.2	21.3	0.09	5.39	5.47	—	19,541	19,541	1.09	1.15	0.14	19,911
Government (Civic Center)	0.23	0.22	0.17	1.55	< 0.005	< 0.005	0.58	0.58	< 0.005	0.15	0.15	—	511	511	0.02	0.02	< 0.005	518
Single Family Housing	53.0	49.7	35.3	306	0.92	0.42	105	106	0.40	26.7	27.1	—	93,678	93,678	3.84	4.60	0.70	95,145
Apartments Low Rise	11.5	10.8	7.68	66.5	0.20	0.09	22.8	22.9	0.09	5.79	5.88	—	20,356	20,356	0.83	1.00	0.15	20,675
User Defined Industrial	4.51	2.06	121	27.7	1.34	2.61	68.2	70.8	2.49	18.2	20.7	—	143,877	143,877	2.26	21.9	1.65	150,465
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	17.5	16.6	6.71	119	0.33	0.08	41.8	41.9	0.08	10.6	10.6	—	33,736	33,736	1.18	0.97	0.18	34,054
Strip Mall	26.0	24.4	17.1	147	0.43	0.20	49.5	49.7	0.19	12.6	12.7	—	44,213	44,213	1.86	2.20	0.33	44,916
General Office Building	5.27	4.91	3.81	34.3	0.11	0.05	12.7	12.8	0.05	3.22	3.27	—	11,214	11,214	0.41	0.52	0.09	11,378
Elementary School	4.69	4.52	2.28	15.8	0.03	0.02	2.79	2.81	0.01	0.71	0.72	—	2,806	2,806	0.27	0.24	0.02	2,883
Refrigerated Warehouse-No Rail	1.94	1.81	1.40	12.6	0.04	0.02	4.65	4.67	0.02	1.18	1.20	—	4,106	4,106	0.15	0.19	0.03	4,166

Total	161	150	213	939	3.97	3.68	376	380	3.50	96.1	99.6	—	411,443	411,443	13.2	33.9	3.49	421,871
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	3.31	3.12	1.31	23.5	0.06	0.02	7.86	7.87	0.01	1.98	2.00	—	5,918	5,918	0.21	0.17	0.51	5,974
City Park	1.61	1.53	0.93	7.53	0.02	0.01	2.00	2.01	0.01	0.51	0.52	—	1,714	1,714	0.10	0.10	0.21	1,747
Government (Civic Center)	0.04	0.04	0.03	0.29	< 0.005	< 0.005	0.10	0.10	< 0.005	0.03	0.03	—	85.4	85.4	< 0.005	< 0.005	0.01	86.6
Single Family Housing	9.33	8.76	6.33	56.3	0.17	0.08	18.5	18.5	0.07	4.68	4.75	—	15,307	15,307	0.62	0.75	1.90	15,547
Apartments Low Rise	1.86	1.74	1.26	11.2	0.03	0.02	3.67	3.69	0.01	0.93	0.95	—	3,046	3,046	0.12	0.15	0.38	3,094
User Defined Industrial	0.77	0.35	20.6	4.61	0.22	0.44	11.3	11.7	0.42	3.01	3.43	—	21,883	21,883	0.34	3.33	4.18	22,889
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	2.27	2.14	0.90	16.1	0.04	0.01	5.40	5.41	0.01	1.36	1.37	—	4,066	4,066	0.14	0.12	0.35	4,105
Strip Mall	4.27	4.01	2.85	25.1	0.07	0.03	8.12	8.15	0.03	2.06	2.09	—	6,748	6,748	0.28	0.34	0.83	6,856
General Office Building	0.71	0.67	0.53	4.87	0.02	0.01	1.72	1.72	0.01	0.44	0.44	—	1,411	1,411	0.05	0.06	0.18	1,431
Elementary School	0.60	0.58	0.30	2.10	< 0.005	< 0.005	0.36	0.36	< 0.005	0.09	0.09	—	334	334	0.03	0.03	0.04	344

Refrigerated Wareho Rail	0.31	0.28	0.22	2.07	0.01	< 0.005	0.73	0.73	< 0.005	0.18	0.19	—	599	599	0.02	0.03	0.07	608
Total	25.1	23.2	35.2	154	0.65	0.61	59.7	60.3	0.58	15.3	15.8	—	61,113	61,113	1.92	5.08	8.65	62,683

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19,084	19,084	2.41	0.29	—	19,232
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,865	3,865	0.49	0.06	—	3,895
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	61,917	61,917	7.83	0.95	—	62,396
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	19,084	19,084	2.41	0.29	—	19,232
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,865	3,865	0.49	0.06	—	3,895
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	61,917	61,917	7.83	0.95	—	62,396
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,160	3,160	0.40	0.05	—	3,184
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	640	640	0.08	0.01	—	645

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	549	549	0.07	0.01	—	553
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	495	495	0.06	0.01	—	499
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	77.2	77.2	0.01	< 0.005	—	77.8
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,251	10,251	1.30	0.16	—	10,330

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469

City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	18,527	18,527	2.34	0.28	—	18,670
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,726	3,726	0.47	0.06	—	3,755
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	61,222	61,222	7.75	0.94	—	61,695

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	14,358	14,358	1.82	0.22	—	14,469
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	206	206	0.03	< 0.005	—	207
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	18,527	18,527	2.34	0.28	—	18,670
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	3,726	3,726	0.47	0.06	—	3,755
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	3,314	3,314	0.42	0.05	—	3,340
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,604	4,604	0.58	0.07	—	4,639
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	2,092	2,092	0.26	0.03	—	2,108
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2,991	2,991	0.38	0.05	—	3,014
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	10,938	10,938	1.38	0.17	—	11,022
Total	—	—	—	—	—	—	—	—	—	—	—	—	61,222	61,222	7.75	0.94	—	61,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	2,377	2,377	0.30	0.04	—	2,395
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	34.0	34.0	< 0.005	< 0.005	—	34.3
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,067	3,067	0.39	0.05	—	3,091
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	617	617	0.08	0.01	—	622
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	549	549	0.07	0.01	—	553
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	762	762	0.10	0.01	—	768
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	346	346	0.04	0.01	—	349
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	495	495	0.06	0.01	—	499

Elementary	—	—	—	—	—	—	—	—	—	—	—	—	77.2	77.2	0.01	< 0.005	—	77.8
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,811	1,811	0.23	0.03	—	1,825
Total	—	—	—	—	—	—	—	—	—	—	—	—	10,136	10,136	1.28	0.16	—	10,214

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Elementary School	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Refrigerated Wareho Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	0.00	0.00	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
Government (Civic Center)	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Apartments Low Rise	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Strip Mall	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Elementary	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Refrigerated Warehouse-No Rail	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	243	243	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	23.7	23.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	56.6	52.7	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Total	324	320	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Products	243	243	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	23.7	23.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	267	267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	44.4	44.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.33	4.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.08	6.59	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162
Total	55.8	55.3	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	243	243	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coating	23.7	23.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	56.6	52.7	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Total	324	320	3.69	419	0.02	0.47	—	0.47	0.35	—	0.35	—	1,422	1,422	0.06	0.01	—	1,427
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	243	243	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	23.7	23.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	267	267	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	44.4	44.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	4.33	4.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.08	6.59	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162
Total	55.8	55.3	0.46	52.4	< 0.005	0.06	—	0.06	0.04	—	0.04	—	161	161	0.01	< 0.005	—	162

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	387	387	0.05	0.01	—	390
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	223	3,027	3,250	23.2	0.59	—	4,007
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	61.6	175	237	6.34	0.15	—	441
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,611	2,232	63.8	1.54	—	4,285
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301

General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	32.1	37.6	0.58	0.01	—	56.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	787	1,098	31.9	0.77	—	2,124
Total	—	—	—	—	—	—	—	—	—	—	—	2,282	8,777	11,059	235	5.69	—	18,633
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	387	387	0.05	0.01	—	390
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	223	3,027	3,250	23.2	0.59	—	4,007
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	61.6	175	237	6.34	0.15	—	441
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated Warehouse-No	—	—	—	—	—	—	—	—	—	—	—	620	1,611	2,232	63.8	1.54	—	4,285
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	32.1	37.6	0.58	0.01	—	56.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	787	1,098	31.9	0.77	—	2,124
Total	—	—	—	—	—	—	—	—	—	—	—	2,282	8,777	11,059	235	5.69	—	18,633
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	64.1	64.1	0.01	< 0.005	—	64.6
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	36.9	501	538	3.85	0.10	—	663
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	10.2	29.0	39.2	1.05	0.03	—	73.0
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	267	369	10.6	0.25	—	709
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	13.5	35.5	49.0	1.39	0.03	—	93.8
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.92	5.31	6.23	0.10	< 0.005	—	9.31
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	130	182	5.28	0.13	—	352
Total	—	—	—	—	—	—	—	—	—	—	—	378	1,453	1,831	38.9	0.94	—	3,085

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	387	387	0.05	0.01	—	390

Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	202	2,975	3,177	21.1	0.54	—	3,865
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	55.9	161	217	5.75	0.14	—	402
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,611	2,232	63.8	1.54	—	4,285
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	32.1	37.6	0.58	0.01	—	56.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	787	1,098	31.9	0.77	—	2,124
Total	—	—	—	—	—	—	—	—	—	—	—	2,255	8,710	10,966	232	5.63	—	18,452
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

General Light Industry	—	—	—	—	—	—	—	—	—	—	—	931	2,407	3,338	95.7	2.30	—	6,418
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	387	387	0.05	0.01	—	390
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	6.28	17.9	24.2	0.65	0.02	—	45.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	202	2,975	3,177	21.1	0.54	—	3,865
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	55.9	161	217	5.75	0.14	—	402
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	620	1,611	2,232	63.8	1.54	—	4,285
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	42.6	117	160	4.38	0.11	—	301
General Office Building	—	—	—	—	—	—	—	—	—	—	—	81.7	214	296	8.41	0.20	—	566
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	32.1	37.6	0.58	0.01	—	56.2
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	310	787	1,098	31.9	0.77	—	2,124

Total	—	—	—	—	—	—	—	—	—	—	—	2,255	8,710	10,966	232	5.63	—	18,452
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	154	399	553	15.8	0.38	—	1,063
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	64.1	64.1	0.01	< 0.005	—	64.6
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	1.04	2.96	4.00	0.11	< 0.005	—	7.44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	33.5	493	526	3.50	0.09	—	640
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	9.25	26.6	35.9	0.95	0.02	—	66.5
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	103	267	369	10.6	0.25	—	709
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	7.05	19.4	26.5	0.73	0.02	—	49.8
General Office Building	—	—	—	—	—	—	—	—	—	—	—	13.5	35.5	49.0	1.39	0.03	—	93.8
Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.92	5.31	6.23	0.10	< 0.005	—	9.31

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	51.4	130	182	5.28	0.13	—	352
Total	—	—	—	—	—	—	—	—	—	—	—	373	1,442	1,816	38.5	0.93	—	3,055

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,411	0.00	1,411	141	0.00	—	4,938
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,102
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,411	0.00	1,411	141	0.00	—	4,938
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,102
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.51	0.00	0.51	0.05	0.00	—	1.79
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	234	0.00	234	23.4	0.00	—	817
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	52.1	0.00	52.1	5.21	0.00	—	182

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	19.9	0.00	19.9	1.99	0.00	—	69.7
Elementary School	—	—	—	—	—	—	—	—	—	—	—	19.5	0.00	19.5	1.95	0.00	—	68.4
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	771	0.00	771	77.0	0.00	—	2,697

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910

City Park	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,411	0.00	1,411	141	0.00	—	4,938
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,102
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	1,403	0.00	1,403	140	0.00	—	4,910
City Park	—	—	—	—	—	—	—	—	—	—	—	3.08	0.00	3.08	0.31	0.00	—	10.8
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	50.7	0.00	50.7	5.07	0.00	—	177
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,411	0.00	1,411	141	0.00	—	4,938
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	315	0.00	315	31.5	0.00	—	1,102
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	709	0.00	709	70.9	0.00	—	2,481
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	170	0.00	170	17.0	0.00	—	594
General Office Building	—	—	—	—	—	—	—	—	—	—	—	120	0.00	120	12.0	0.00	—	421
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413

Refrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	355	0.00	355	35.4	0.00	—	1,241
Total	—	—	—	—	—	—	—	—	—	—	—	4,655	0.00	4,655	465	0.00	—	16,287
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	232	0.00	232	23.2	0.00	—	813
City Park	—	—	—	—	—	—	—	—	—	—	—	0.51	0.00	0.51	0.05	0.00	—	1.79
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	8.39	0.00	8.39	0.84	0.00	—	29.4
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	234	0.00	234	23.4	0.00	—	817
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	52.1	0.00	52.1	5.21	0.00	—	182
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	117	0.00	117	11.7	0.00	—	411
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	28.1	0.00	28.1	2.81	0.00	—	98.3
General Office Building	—	—	—	—	—	—	—	—	—	—	—	19.9	0.00	19.9	1.99	0.00	—	69.7

Elementary	—	—	—	—	—	—	—	—	—	—	—	19.5	0.00	19.5	1.95	0.00	—	68.4
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	58.7	0.00	58.7	5.87	0.00	—	205
Total	—	—	—	—	—	—	—	—	—	—	—	771	0.00	771	77.0	0.00	—	2,697

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.36	5.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.36	5.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29

Refriger Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.91	5.91
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	158	158

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.36	5.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	196	196
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.36	5.36
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.57	1.57
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	713	713
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	953	953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
General Light Industry	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32.5	32.5

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Government (Civic Center)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.91	5.91
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.89	0.89
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.26	0.26
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Refrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	118	118
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	158	158

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	45.7	45.7	< 0.005	< 0.005	0.00	45.8
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	4.33	3.94	11.0	10.0	0.02	0.58	0.00	0.58	0.58	0.00	0.58	0.00	2,015	2,015	0.08	0.02	0.00	2,022
Emergency Generator	1.44	1.31	5.87	3.35	0.01	0.19	0.00	0.19	0.19	0.00	0.19	0.00	672	672	0.03	0.01	0.00	674
Total	5.77	5.25	16.9	13.4	0.03	0.77	0.00	0.77	0.77	0.00	0.77	0.00	2,686	2,686	0.11	0.02	0.00	2,695
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	45.7	45.7	< 0.005	< 0.005	0.00	45.8
Emergency Generator	0.04	0.03	0.15	0.08	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	15.2	15.2	< 0.005	< 0.005	0.00	15.3
Total	0.14	0.13	0.42	0.33	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	60.9	60.9	< 0.005	< 0.005	0.00	61.1

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	66,610	54,024	53,346	22,964,818
City Park	3,326	8,358	9,338	1,789,858	10,717	26,930	30,090	5,767,209
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	26,970	27,256	24,427	9,726,315	147,346	148,909	133,456	53,138,611
Apartments Low Rise	5,326	5,923	4,569	1,935,694	29,099	32,358	24,964	10,575,441
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	60,074	1,596	634	15,778,492
Strip Mall	13,452	12,612	6,129	4,484,338	70,124	65,745	31,950	23,376,535
General Office Building	2,602	530	168	714,816	18,002	3,669	1,162	4,945,230

Elementary School	2,724	0.00	0.00	710,186	3,952	0.00	0.00	1,030,375
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,589	3,739	3,580	2,099,489

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
General Light Industry	9,702	7,869	7,770	3,344,897	66,610	54,024	53,346	22,964,818
City Park	3,326	8,358	9,338	1,789,858	10,717	26,930	30,090	5,767,209
Government (Civic Center)	114	114	114	41,609	821	821	821	299,683
Single Family Housing	26,970	27,256	24,427	9,726,315	147,346	148,909	133,456	53,138,611
Apartments Low Rise	5,326	5,923	4,569	1,935,694	29,099	32,358	24,964	10,575,441
User Defined Industrial	1,323	958	937	443,694	79,380	57,456	56,196	26,621,640
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	8,750	232	92.4	2,298,186	60,074	1,596	634	15,778,492
Strip Mall	13,452	12,612	6,129	4,484,338	70,124	65,745	31,950	23,376,535
General Office Building	2,602	530	168	714,816	18,002	3,669	1,162	4,945,230
Elementary School	2,724	0.00	0.00	710,186	3,952	0.00	0.00	1,030,375
Refrigerated Warehouse-No Rail	960	545	522	305,797	6,589	3,739	3,580	2,099,489

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
12989160	4,329,720	7,285,236	2,428,412	317,735

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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	26,710,237	261	0.0330	0.0040	0.00
Apartments Low Rise	5,408,965	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00

Parking Lot	4,638,936	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
General Office Building	4,186,361	261	0.0330	0.0040	0.00
Elementary School	652,916	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	20,095,049	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Government (Civic Center)	287,812	261	0.0330	0.0040	0.00
Single Family Housing	25,930,015	261	0.0330	0.0040	0.00
Apartments Low Rise	5,215,338	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Parking Lot	4,638,936	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	6,443,292	261	0.0330	0.0040	0.00
Strip Mall	2,927,518	261	0.0330	0.0040	0.00
General Office Building	4,186,361	261	0.0330	0.0040	0.00
Elementary School	652,916	261	0.0330	0.0040	0.00
Refrigerated Warehouse-No Rail	15,308,685	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)
General Light Industry	485,625,000	11,999,776
City Park	0.00	102,066,382
Government (Civic Center)	3,277,885	512,488
Single Family Housing	116,326,997	649,179,458
Apartments Low Rise	32,132,282	5,034,562
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	9,679,119
Strip Mall	22,221,756	2,456,034
General Office Building	42,656,100	1,769,513
Elementary School	2,909,088	4,727,292
Refrigerated Warehouse-No Rail	161,875,000	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Light Industry	485,625,000	11,999,776
City Park	0.00	102,066,382
Government (Civic Center)	3,277,885	512,488
Single Family Housing	105,543,484	649,179,458
Apartments Low Rise	29,153,620	5,034,562
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	323,750,000	9,679,119
Strip Mall	22,221,756	2,456,034
General Office Building	42,656,100	1,769,513

Elementary School	2,909,088	4,727,292
Refrigerated Warehouse-No Rail	161,875,000	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	5.72	—
Government (Civic Center)	94.0	—
Single Family Housing	2,619	—
Apartments Low Rise	584	—
User Defined Industrial	0.00	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
General Office Building	223	—
Elementary School	219	—
Refrigerated Warehouse-No Rail	658	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Light Industry	2,604	—
City Park	5.72	—
Government (Civic Center)	94.0	—
Single Family Housing	2,619	—
Apartments Low Rise	584	—
User Defined Industrial	0.00	—

Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	1,316	—
Strip Mall	315	—
General Office Building	223	—
Elementary School	219	—
Refrigerated Warehouse-No Rail	658	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0

Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Light Industry	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0
City Park	Other commercial A/C and heat pumps	User Defined	750	< 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
Government (Civic Center)	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Government (Civic Center)	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Apartments Low Rise	Average room A/C & Other residential A/C and heat pumps	User Defined	750	< 0.005	2.50	2.50	10.0
Apartments Low Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Elementary School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Elementary School	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0

Elementary School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Elementary School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Emergency Generator	Diesel	1.00	1.00	50.0	800	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73

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	28.1	annual days of extreme heat
Extreme Precipitation	3.90	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	29.1	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	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	3	1	1	3
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	99.1
AQ-PM	50.3
AQ-DPM	35.7
Drinking Water	55.1
Lead Risk Housing	1.83
Pesticides	31.6
Toxic Releases	45.3
Traffic	50.9
Effect Indicators	—
CleanUp Sites	0.00
Groundwater	47.4
Haz Waste Facilities/Generators	79.2
Impaired Water Bodies	12.5
Solid Waste	52.9
Sensitive Population	—
Asthma	55.5
Cardio-vascular	84.1
Low Birth Weights	55.4
Socioeconomic Factor Indicators	—
Education	51.2
Housing	6.89
Linguistic	21.4
Poverty	14.5
Unemployment	9.72

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	72.12883357
Employed	95.58578211
Median HI	89.34941614
Education	—
Bachelor's or higher	68.75401001
High school enrollment	100
Preschool enrollment	38.32926986
Transportation	—
Auto Access	98.98626973
Active commuting	3.195175157
Social	—
2-parent households	82.43295265
Voting	49.26215835
Neighborhood	—
Alcohol availability	93.77646606
Park access	6.441678429
Retail density	5.338123957
Supermarket access	15.96304376
Tree canopy	5.954061337
Housing	—
Homeownership	95.7141024
Housing habitability	96.52252021
Low-inc homeowner severe housing cost burden	60.52867958
Low-inc renter severe housing cost burden	94.8671885

Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	76.20941871
Arthritis	0.0
Asthma ER Admissions	51.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	61.7
Cognitively Disabled	96.9
Physically Disabled	80.2
Heart Attack ER Admissions	11.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	19.6
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	2.1
SLR Inundation Area	0.0

Children	1.2
Elderly	85.6
English Speaking	87.3
Foreign-born	32.8
Outdoor Workers	85.1
Climate Change Adaptive Capacity	—
Impervious Surface Cover	90.3
Traffic Density	52.9
Traffic Access	23.0
Other Indices	—
Hardship	24.0
Other Decision Support	—
2016 Voting	68.8

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0
Healthy Places Index Score for Project Location (b)	78.0
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	Trip characteristics adjusted based on the Project traffic study and to separate industrial trucks and passenger vehicles.
Operations: Fleet Mix	Fleet mix adjusted to separate industrial trucks and passenger vehicles.
Operations: Hearths	No wood burning fireplaces or stoves per SCAQMD Rule 445. Project will not use natural gas.
Operations: Energy Use	Project will not use natural gas.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater. As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.

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