Appendix B-3
Energy Analysis Report

Mesa Verde Specific Plan

ENERGY ANALYSIS

CITY OF CALIMESA

PREPARED BY:

Haseeb Qureshi
hqureshi@urbanxroads.com

Michael Tirohn
mtirohn@urbanxroads.com

Ali Dadabhoy
adadabhoy@urbanxroads.com

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LIST OF ABBREVIATED TERMS

%	Percent
(1)	Reference
AGSP	Airport Gateway Specific Plan
AQIA	Mesa Verde Specific Plan Air Quality Impact Analysis
BACM	Best Available Control Measures
BTU	British Thermal Units
CalEEMod	California Emissions Estimator Model
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of Calimesa
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EPA	Environmental Protection Agency
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GWh	Gigawatt Hour
HHD	Heavy-Heavy Duty Trucks
hp-hr-gal	Horsepower Hours Per Gallon
IEPR	Integrated Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Thousand-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHD1/LHD2	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHD	Medium-Heavy Duty Trucks
MMcfd	Million Cubic Feet Per Day

mpg	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Mesa Verde Specific Plan
PV	Photovoltaic
SCAB	South Coast Air Basin
SCE	Southern California Edison
SDAB	San Diego Air Basin
sf	Square Feet
SoCalGas	Southern California Gas
TEA-21	Transportation Equity Act for the 21st Century
U.S.	United States
VMT	Vehicle Miles Traveled

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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Mesa Verde Specific Plan Energy Analysis* are summarized below based on the significance criteria in Section 5 of this report consistent with Appendix G of the *CEQA Guidelines* (*CEQA Guidelines*) (1). Table ES-1 shows the findings of significance for potential energy impacts under CEQA.

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

Analysis	Report Section	Significance Findings	
		Unmitigated	Mitigated
Energy Impact #1: Would the Project result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?	5.0	*Less Than Significant*	*n/a*
Energy Impact #2: Would the Project conflict with or obstruct a state or local plan for renewable energy or energy efficiency?	5.0	*Less Than Significant*	*n/a*

ES.2 PROJECT REQUIREMENTS

The Project would be required to comply with regulations imposed by the federal and state agencies that regulate energy use and consumption through various means and programs. Those that are directly and indirectly applicable to the Project and that would assist in the reduction of energy usage include:

- Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA)
- The Transportation Equity Act for the 21st Century (TEA-21
- Integrated Energy Policy Report (IEPR)
- State of California Energy Plan
- California Code Title 24, Part 6, Energy Efficiency Standards
- California Code Title 24, Part 11, California Green Building Standards Code (CALGreen)
- AB 1493 Pavley Regulations and Fuel Efficiency Standards
- California's Renewable Portfolio Standard (RPS)
- Clean Energy and Pollution Reduction Act of 2015 (SB 350)

Consistency with the above regulations is discussed in detail in Section 6 of this report.

ES.3 MITIGATION MEASURES

Because the proposed Project does not result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation nor does it conflict with or obstruct a state or local plan for renewable energy or energy efficiency, impacts would be less than significant, and no mitigation is required.

The following measures were identified in the *Mesa Verde Specific Plan Air Quality Impact Analysis* (*AQIA*) report (2) and the *Mesa Verde Specific Plan Greenhouse Gas (GHG) Analysis* (3). Although these measures are designed to reduce Project air quality and GHG emissions, they would also assist in the reduction of fuel and energy usage.

MM AQ-9

Build homes that exceed minimum statewide energy 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.

MM AQ-9 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

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

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 feasible, above that which is required under the 2022 Title 24 Building Energy Efficiency Standards (Part 6 of Title 24 of the California Code of Regulations)
- 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.

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.

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Mesa Verde Specific Plan Project (Project). The purpose of this report is to ensure that energy implication is considered by the City of Calimesa (Lead Agency), as the lead agency, and to quantify anticipated energy usage associated with construction and operation of the proposed Project, determine if the usage amounts are efficient, typical, or wasteful for the land use type, and to emphasize avoiding or reducing inefficient, wasteful, and unnecessary consumption of energy.

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. Phase 5 (2045):

- 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 (4), 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

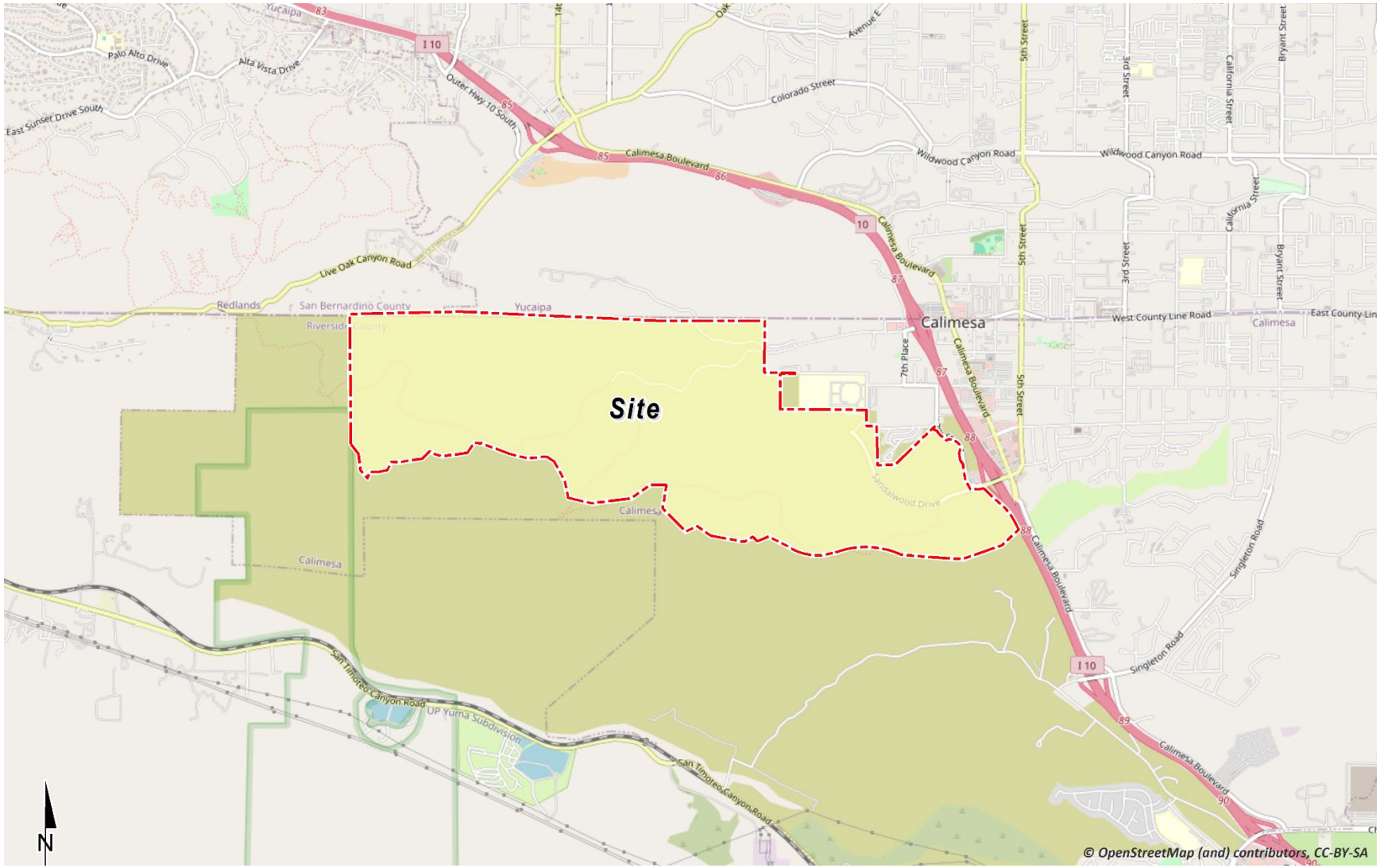
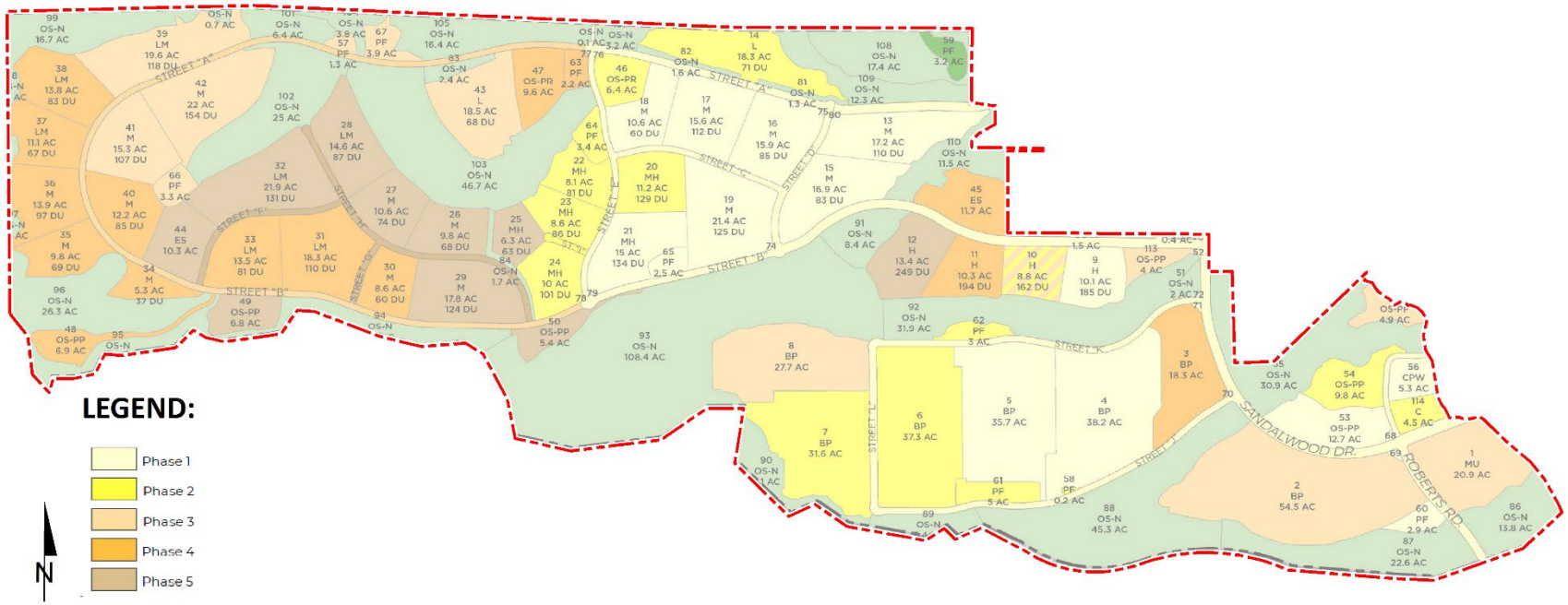


EXHIBIT 1-B: LAND USE PLAN



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2 EXISTING CONDITIONS

This section provides an overview of the existing energy conditions in the Project region.

2.1 OVERVIEW

The most recent data for California's estimated total energy consumption and natural gas consumption is from 2022, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates and includes (5):

- As of 2022, approximately 6,882 trillion British Thermal Unit (BTU) of energy was consumed
- As of 2022, approximately 628 million barrels of petroleum
- As of 2022, approximately 2,059 billion cubic feet of natural gas
- As of 2022, approximately 1,322 thousand short tons of coal

According to the EIA, in 2022 the U.S. petroleum consumption comprised about 90% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (6). In 2023, about 253,289 million gallons (or about 6.031 million barrels) of finished petroleum products were consumed in the U.S., an average of about 694 million gallons per day (or about 16.5 million barrels per day) (7). In 2021, California consumed approximately 12,157 million gallons in motor gasoline (33.31 million per day) and approximately 3,541 million gallons of diesel fuel (9.7 million per day) (8).

The most recent data provided by the EIA for energy use in California is reported from 2022 which shows approximate energy usage by each of the following sectors:

- 42.6% for transportation uses
- 22.5% for industrial uses
- 17.6% for residential uses
- 17.4% for commercial uses (9)

According to the EIA, California used approximately 251,869 gigawatt hours of electricity in 2022 (10). By sector in 2022, residential uses utilized 35.6% of the state's electricity, followed by 45.3% for commercial uses, 18.9% for industrial uses, and 0.3% for transportation. Electricity usage in California for differing land uses varies substantially by the type of uses in a building, type of construction materials used in a building, and the efficiency of all electricity-consuming devices within a building (10).

According to the EIA, California used approximately 200,871 million therms of natural gas in 2022 (11). In 2023 (the most recent year for which data is available), by sector, industrial uses utilized 31% of the state's natural gas, followed by 32% used as fuel in the electric power sector, 23% from residential, 13% from commercial, 1% from transportation uses and the remaining 3% was utilized for the operations, processing and production of natural gas itself (11). While the supply of natural gas in the United States and production in the lower 48 states has increased greatly since 2008, California produces little, and imports 90% of its supply of natural gas (11).

In 2023, total system electric generation for California was 281,140 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 215,623 GWh which accounted for approximately 76% of the electricity it uses; the rest was imported from the Pacific Northwest (6%) and the U.S. Southwest (18%) (12). Natural gas is the main source for electricity generation at 43.68% of the total in-state electric generation system power as shown in Table 2-1.

An updated summary of, and context for energy consumption and energy demands within the State is presented in "U.S. Energy Information Administration, California State Profile and Energy Estimates, Quick Facts" excerpted below (13):

- In 2023, California was the seventh-largest producer of crude oil among the 50 states, and the state ranked third in crude oil refining capacity.
- California is the largest consumer of jet fuel and second-largest consumer of motor gasoline among the 50 states.
- California is the second-largest total energy consumer among the states, after Texas, but its per capita energy consumption is the fourth-lowest in the nation.
- In 2023, renewable resources, including hydroelectric power and small-scale solar power, supplied 54% of California's in-state electricity generation. Natural gas fueled another 39% and nuclear power provided almost all the rest.
- In 2023, California was the fourth-largest electricity producer in the nation. It is also the nation's third-largest electricity consumer and imports more electricity than any other state.

As indicated below, California is one of the nation's leading energy-producing states, and California's per capita energy use is among the nation's most efficient. Given the nature of the Project, the remainder of this discussion will focus on the three sources of energy that are most relevant to the Project—namely, electricity, natural gas, and transportation fuel for vehicle trips associated with the uses planned for the Project.

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2023)

Fuel Type	California In-State Generation (GWh)	% of California In-State Generation	Northwest Imports (GWh)	Southwest Imports (GWh)	Total Imports (GWh)	Total California Energy Mix (GWh)	Total California Power Mix
Coal	257	0.12%	163	4,561	4,724	4,981	1.77%
Natural Gas	94,192	43.68%	52	8,530	8,582	102,774	36.56%
Oil	36	0.02%	0	0	0	36	0.01%
Other (Waste Heat/Petroleum Coke)	206	0.10%	0	0	0	206	0.07%
Unspecified	0	0.00%	100	10,273	10,373	10,373	3.69%
Total Thermal and Unspecified	***94,690***	***43.91%***	***316***	***23,363***	***23,679***	***118,370***	***42.10%***
Nuclear	17,714	8.22%	196	8,361	8,558	26,272	9.34%
Large Hydro	27,066	12.55%	4,712	1,109	5,821	32,886	11.70%
Biomass	5,037	2.34%	753	-	753	5,790	2.06%
Geothermal	10,999	5.10%	221	2,347	2,569	13,567	4.83%
Small Hydro	4,853	2.25%	133	2	135	4,988	1.77%
Solar	41,344	19.17%	417	6,108	6,525	47,869	17.03%
Wind	13,920	6.46%	9,177	8,302	17,479	31,399	11.17%
Total Non-GHG and Renewable Resources	120,932	56.09%	15,609	26,229	41,838	162,771	57.90%
SYSTEM TOTALS	***215,623***	***100.00%***	***15,925***	***49,593***	***65,518***	***281,140***	***100.00%***

Source: CECs 2023 Total System Electric Generation

2.2 ELECTRICITY

The usage associated with electricity use was calculated using CalEEMod Version 2022.1. The Southern California region's electricity reliability has been of concern for the past several years due to the planned retirement of aging facilities that depend upon once-through cooling technologies, as well as the June 2013 retirement of the San Onofre Nuclear Generating Station (San Onofre). While the once-through cooling phase-out has been ongoing since the May 2010 adoption of the State Water Resources Control Board's once-through cooling policy, the retirement of San Onofre complicated the situation. California Independent Service Operator (ISO) studies revealed the extent to which the Mojave Desert Air Basin (MDAB) and the San Diego Air Basin (SDAB) region were vulnerable to low-voltage and post-transient voltage instability concerns. A preliminary plan to address these issues was detailed in the 2013 Integrative Energy Policy Report (IEPR) after a collaborative process with other energy agencies, utilities, and air districts. Similarly, the subsequent 2023 IEPR provides information and policy recommendations on advancing a clean, reliable, and affordable energy system (14).

California's electricity industry is an organization of traditional utilities, private generating companies, and state agencies, each with a variety of roles and responsibilities to ensure that electrical power is provided to consumers. The California ISO is a nonprofit public benefit corporation and is the impartial operator of the State's wholesale power grid and is charged with maintaining grid reliability, and to direct uninterrupted electrical energy supplies to California's homes and communities. While utilities still own transmission assets, the ISO routes electrical power along these assets, maximizing the use of the transmission system and its power generation resources. The ISO matches buyers and sellers of electricity to ensure that enough power is available to meet demand. To these ends, every five minutes the ISO forecasts electrical demands, accounts for operating reserves, and assigns the lowest cost power plant unit to meet demands while ensuring adequate system transmission capacities and capabilities (15).

Part of the ISO's charge is to plan and coordinate grid enhancements to ensure that electrical power is provided to California consumers. To this end, utilities file annual transmission expansion/modification plans to accommodate the State's growing electrical needs. The ISO reviews and either approves or denies the proposed additions. In addition, and perhaps most importantly, the ISO works with other areas in the western United States electrical grid to ensure that adequate power supplies are available to the State. In this manner, continuing reliable and affordable electrical power is assured to existing and new consumers throughout the State.

Electricity is currently provided to the Project site by Southern California Edison (SCE). SCE provides electric power to more than 15 million persons in 15 counties and in 180 incorporated cities, within a service area encompassing approximately 50,000 square miles. Based on SCE's 2022 Power Content Label Mix, SCE derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. SCE also purchases from independent power producers and utilities, including out-of-state suppliers (16).

Table 2-2, SCE's specific proportional shares of electricity sources in 2022. As indicated in Table 2-2, the 2022 SCE Power Mix has renewable energy at 33.2% of the overall energy resources.

Geothermal resources are at 5.7%, wind power is at 9.8%, large hydroelectric sources are at 3.4%, solar energy is at 17.0%, and coal is at 0% (17).

TABLE 2-2: SCE 2022 POWER CONTENT MIX

Energy Resources	2022 SCE Power Mix
Eligible Renewable	**33.2%**
Biomass & Waste	0.1%
Geothermal	5.7%
Eligible Hydroelectric	0.5%
Solar	17.0%
Wind	9.8%
Coal	**0.0%**
Large Hydroelectric	**3.4%**
Natural Gas	**24.7%**
Nuclear	**8.3%**
Other	**0.1%**
Unspecified Sources of power*	30.3%
Total	**100%**

* "Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

The following summary of natural gas customers and volumes, supplies, delivery of supplies, storage, service options, and operations is excerpted from information provided by the California Public Utilities Commission (CPUC).

> *"The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.*
>
> *California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800, 000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.*
>
> *The overwhelming majority of natural gas utility customers in California are residential and small commercials customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers*

consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.

A significant amount of gas (about 19%, or 1131 MMcfd, of the total forecasted California consumption in 2018) is also directly delivered to some California large volume consumers, without being transported over the regulated utility pipeline system. Those customers, referred to as "bypass" customers, take service directly from interstate pipelines or directly from California producers.

SDG&E and Southwest Gas' southern division are wholesale customers of SoCalGas, i.e., they receive deliveries of gas from SoCalGas and in turn deliver that gas to their own customers. (Southwest Gas also provides natural gas distribution service in the Lake Tahoe area.) Similarly, West Coast Gas, a small gas utility, is a wholesale customer of PG&E. Some other wholesale customers are municipalities like the cities of Palo Alto, Long Beach, and Vernon, which are not regulated by the CPUC.

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines are Gas Transmission Northwest Pipeline, Kern River Pipeline, Transwestern Pipeline, El Paso Pipeline, Ruby Pipeline, Mojave Pipeline, and Tuscarora. Another pipeline, the North Baja - Baja Norte Pipeline takes gas off the El Paso Pipeline at the California/Arizona border and delivers that gas through California into Mexico. While the Federal Energy Regulatory Commission (FERC) regulates the transportation of natural gas on the interstate pipelines, and authorizes rates for that service, the CPUC may participate in FERC regulatory proceedings to represent the interests of California natural gas consumers.

The gas transported to California gas utilities via the interstate pipelines, as well as some of the California-produced gas, is delivered into the PG&E and SoCalGas intrastate natural gas transmission pipelines systems (commonly referred to as California's "backbone" pipeline system). Natural gas on the utilities' backbone pipeline systems is then delivered to the local transmission and distribution pipeline systems, or to natural gas storage fields. Some large volume noncore customers take natural gas delivery directly off the high-pressure backbone and local transmission pipeline systems, while core customers and other noncore customers take delivery off the utilities' distribution pipeline systems. The state's natural gas utilities operate over 100,000 miles of transmission and distribution pipelines, and thousands more miles of service lines.

Bypass customers take most of their deliveries directly off the Kern/Mojave pipeline system, but they also take a significant amount of gas from California production.

PG&E and SoCalGas own and operate several natural gas storage fields that are located within their service territories in northern and southern California, respectively. These storage fields, and four independently owned storage utilities - Lodi Gas Storage, Wild Goose Storage, Central Valley Storage, and Gill Ranch Storage - help meet peak seasonal and daily natural gas demand and allow California natural gas customers to secure natural gas supplies more efficiently. PG&E is a 25% owner of the Gill Ranch Storage field.

These storage fields provide a significant amount of infrastructure capacity to help meet California's natural gas requirements, and without these storage fields, California would need much more pipeline capacity in order to meet peak gas requirements.

Prior to the late 1980s, California regulated utilities provided virtually all natural gas services to all their customers. Since then, the Commission has gradually restructured the California gas industry in order to give customers more options while assuring regulatory protections for those customers that wish to, or are required to, continue receiving utility-provided services.

The option to purchase natural gas from independent suppliers is one of the results of this restructuring process. Although the regulated utilities procure natural gas supplies for most core customers, core customers have the option to purchase natural gas from independent natural gas marketers, called "core transport agents" (CTA). Contact information for core transport agents can be found on the utilities' web sites. Noncore customers, on the other hand, make natural gas supply arrangements directly with producers or with marketers.

Another option resulting from the restructuring process occurred in 1993, when the Commission removed the utilities' storage service responsibility for noncore customers, along with the cost of this service from noncore customers' transportation rates. The Commission also encouraged the development of independent storage fields, and in subsequent years, all the independent storage fields in California were established. Noncore customers and marketers may now take storage service from the utility or from an independent storage provider (if available), and pay for that service, or may opt to take no storage service at all. For core customers, the Commission assures that the utility has adequate storage capacity set aside to meet core requirements, and core customers pay for that service.

In a 1997 decision, the Commission adopted PG&E's "Gas Accord", which unbundled PG&E's backbone transmission costs from noncore transportation rates. This decision gave customers and marketers the opportunity to obtain pipeline capacity rights on PG&E's backbone transmission pipeline system, if desired, and pay for that service at rates authorized by the Commission. The Gas Accord also required PG&E to set aside a certain amount of backbone transmission capacity in order to deliver gas to its core customers. Subsequent Commission decisions modified and extended the initial terms of the Gas Accord. The "Gas Accord" framework is still in place today for PG&E's backbone and storage rates and services and is now simply referred to as PG&E Gas Transmission and Storage (GT&S).

In a 2006 decision, the Commission adopted a similar gas transmission framework for Southern California, called the "firm access rights" system. SoCalGas and SDG&E implemented the firm access rights (FAR) system in 2008, and it is now referred to as the backbone transmission system (BTS) framework. As under the PG&E backbone transmission system, SoCalGas backbone transmission costs are unbundled from noncore transportation rates. Noncore customers and marketers may obtain, and pay for, firm

backbone transmission capacity at various receipt points on the SoCalGas system. A certain amount of backbone transmission capacity is obtained for core customers to assure meeting their requirements.

Many if not most noncore customers now use a marketer to provide for several of the services formerly provided by the utility. That is, a noncore customer may simply arrange for a marketer to procure its supplies, and obtain any needed storage and backbone transmission capacity, in order to assure that it will receive its needed deliveries of natural gas supplies. Core customers still mainly rely on the utilities for procurement service, but they have the option to take procurement service from a CTA. Backbone transmission and storage capacity is either set aside or obtained for core customers in amounts to assure very high levels of service.

In order [to] properly operate their natural gas transmission pipeline and storage systems, PG&E and SoCalGas must balance the amount of gas received into the pipeline system and delivered to customers or to storage fields. Some of these utilities' storage capacity is dedicated to this service, and under most circumstances, customers do not need to precisely match their deliveries with their consumption. However, when too much or too little gas is expected to be delivered into the utilities' systems, relative to the amount being consumed, the utilities require customers to more precisely match up their deliveries with their consumption. And, if customers do not meet certain delivery requirements, they could face financial penalties. The utilities do not profit from these financial penalties - the amounts are then returned to customers as a whole. If the utilities find that they are unable to deliver all the gas that is expected to be consumed, they may even call for a curtailment of some gas deliveries. These curtailments are typically required for just the largest, noncore customers. It has been many years since there has been a significant curtailment of core customers in California." (18)

As indicated in the preceding discussions, natural gas is available from a variety of in-state and out-of-state sources and is provided throughout the State in response to market supply and demand. Complementing available natural gas resources, biogas may soon be available via existing delivery systems, thereby increasing the availability and reliability of resources in total. The CPUC oversees utility purchases and transmission of natural gas to ensure reliable and affordable natural gas deliveries to existing and new consumers throughout the State.

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. The Department of Motor Vehicles (DMV) identified 36.2 million registered vehicles in California (19), and those vehicles consume an estimated 17.2 billion gallons of fuel each year.[1] Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

[1] Fuel consumptions estimated utilizing information from EMFAC2021.

California's on-road transportation system includes 396,616 lane miles, more than 26.6 million passenger vehicles and light trucks, and almost 9.0 million medium- and heavy-duty vehicles (19). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. California is the second-largest consumer of petroleum products, after Texas, and accounts for 8% of the nation's total consumption. The State is the largest U.S. consumer of motor gasoline and jet fuel, and 83% of the petroleum consumed in California is used in the transportation sector (20).

California accounts for less than 1% of total U.S. natural gas reserves and production. As with crude oil, California's natural gas production has experienced a gradual decline since 1985. In 2021, about 33% of the natural gas delivered to consumers went to the State's industrial sector, and about 31% was delivered to the electric power sector. Natural gas fueled more than two-fifths of the State's utility-scale electricity generation in 2021. The residential sector, where three-fifths of California households use natural gas for home heating, accounted for 22% of natural gas deliveries. The commercial sector received 12% of the deliveries to end users and the transportation sector consumed the remaining 1% (20).

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3 REGULATORY BACKGROUND

Federal and state agencies regulate energy use and consumption through various means and programs. On the federal level, the U.S. Department of Transportation, the U.S. Department of Energy, and the U.S. Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the California Energy Commission (CEC) are two agencies with authority over different aspects of energy. Relevant federal and state energy-related laws and plans are summarized below.

3.1 FEDERAL REGULATIONS

3.1.1 INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991 (ISTEA)

ISTEA promoted the development of inter-modal transportation systems to maximize mobility as well as address national and local interests in air quality and energy. ISTEA contained factors that Metropolitan Planning Organizations (MPOs) were to address in developing transportation plans and programs, including some energy-related factors. To meet the new ISTEA requirements, MPOs adopted explicit policies defining the social, economic, energy, and environmental values guiding transportation decisions.

3.1.2 THE TRANSPORTATION EQUITY ACT FOR THE 21ST CENTURY (TEA-21)

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

3.2 CALIFORNIA REGULATIONS

3.2.1 INTEGRATED ENERGY POLICY REPORT (IEPR)

Senate Bill 1389 (Bowen, Chapter 568, Statutes of 2002) requires the CEC to prepare a biennial integrated energy policy report that assesses major energy trends and issues facing the state's electricity, natural gas, and transportation fuel sectors and provides policy recommendations to conserve resources; protect the environment; ensure reliable, secure, and diverse energy supplies; enhance the state's economy; and protect public health and safety (Public Resources Code § 25301[a]). The CEC prepares these assessments and associated policy recommendations every two years, with updates in alternate years, as part of the Integrated Energy Policy Report.

The 2023 IEPR was adopted February 2024, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2023 IEPR introduces a new

framework for embedding equity and environmental justice at the CEC and the California Energy Planning Library which allows for easier access to energy data and analytics for a wide range of users. Additionally, energy reliability, western electricity integration, gasoline cost factors and price spikes, the role of hydrogen in California's clean energy future, fossil gas transition, and distributed energy resources are topics discussed within the 2023 IEPR (21).

3.2.2 STATE OF CALIFORNIA ENERGY PLAN

The CEC is responsible for preparing the State Energy Plan, which identifies emerging trends related to energy supply, demand, conservation, public health and safety, and the maintenance of a healthy economy. The State Energy Plan calls for the State to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

3.2.3 CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

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[2]. 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 (22).

3.2.4 AB 1493 PAVLEY REGULATIONS AND FUEL EFFICIENCY STANDARDS

California AB 1493, enacted on July 22, 2002, required CARB to develop and adopt regulations that reduce GHGs emitted by passenger vehicles and light duty trucks. Under this legislation, CARB adopted regulations to reduce GHG emissions from non-commercial passenger vehicles (cars and light-duty trucks). Although aimed at reducing GHG emissions, specifically, a co-benefit of the Pavley standards is an improvement in fuel efficiency and consequently a reduction in fuel consumption.

[2] The 2022 California Green Building Standard Code will be published July 1, 2022.

3.2.5 CALIFORNIA'S RENEWABLE PORTFOLIO STANDARD (RPS)

First established in 2002 under Senate Bill (SB) 1078, California's Renewable Portfolio Standards (RPS) requires retail sellers of electric services to increase procurement from eligible renewable resources to 44% of total retail sales by 2024 (23).

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

In October 2015, the legislature approved and the Governor signed SB 350, which reaffirms California's commitment to reducing its GHG emissions and addressing climate change. Key provisions include an increase in the renewables portfolio standard (RPS), higher energy efficiency requirements for buildings, initial strategies towards a regional electricity grid, and improved infrastructure for electric vehicle charging stations. 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 45% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the CEC, and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electricity transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

3.2.7 EXECUTIVE ORDER N-79-20 AND ADVANCED CLEAN CARS II

On August 25, 2022, CARB approved the Advanced Clean Cars II rule, which codifies the goals set out in Executive Order N-79-20 and establishes a year-by-year roadmap such that by 2035, 100% of new cars and light trucks sold in California will be zero-emission vehicles. Under this regulation, automakers are required to accelerate deliveries of zero-emission light-duty vehicles, beginning with model year 2026. CARB estimates that between 2026 and 2040, the regulation would reduce GHG emissions by a cumulative 395 million metric tons, equivalent to reducing petroleum use by 915 million barrels.

3.3 LOCAL REGULATIONS

3.3.1 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 energy 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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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

Appendix F of the *State CEQA Guidelines* (24)*,* states that the means of achieving the goal of energy conservation includes the following:

- Decreasing overall per capita energy consumption;
- Decreasing reliance on fossil fuels such as coal, natural gas, and oil; and
- Increasing reliance on renewable energy sources.

In compliance with Appendix G of the *State CEQA Guidelines* (25)*,* this report analyzes the Project's anticipated energy use during construction and operations to determine if the Project would:

- Result in potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation; or
- Conflict with or obstruct a state or local plan for renewable energy or energy efficiency.

4.2 METHODOLOGY

Information from the CalEEMod Version 2022 outputs for the *Mesa Verde Specific Plan Air Quality Impact Analysis* (AQIA) (2) was utilized in this analysis, detailing Project-related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CALEEMOD

In August 2023, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the 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 as well as energy usage (26). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Outputs from the annual model runs are provided in Appendices 4.1 through 4.3.

4.2.2 EMISSION FACTORS MODEL

On May 2, 2022, the EPA approved the 2021 version of the EMissions FACtor model (EMFAC2021) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (27). This energy study utilizes the different fuel types for each vehicle class from the annual EMFAC2021 emission inventory in order to derive the average vehicle fuel economy which is then used to determine the estimated annual fuel consumption associated with vehicle usage during Project construction and operational activities. For purposes of

analysis, the 2030, 2035, 2038, 2040, and 2045 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project. Outputs from the EMFAC2021 model run is provided in Appendix 4.4.

4.3 CONSTRUCTION ENERGY DEMANDS

The focus within this section is the energy implications of the construction process, specifically the power cost from on-site electricity consumption during construction of the proposed Project.

4.3.1 CONSTRUCTION POWER COST

The total Project construction power costs is the summation of the products of the area (sf) by the construction duration and the typical power cost.

CONSTRUCTION DURATION

For purposes of analysis, construction of the Project is expected to commence in July 2026 and would end in December 2045 (2). The construction schedule utilized in the analysis, shown in Table 4-1, represent a "worst-case" analysis scenario. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (28).

TABLE 4-1: 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

Phase	Construction Activity	Start Date	End Date	Days
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

PROJECT CONSTRUCTION POWER COST

The *2024 National Construction Estimator* identifies a typical power cost per 1,000 sf of construction per month of $2.66, which was used to calculate the Project's total construction power cost (29).

As shown in Table 4-2, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately $2,737,719.38.

TABLE 4-2: CONSTRUCTION POWER COST

Phase	Land Use	Power Cost (per 1,000 sf)	Size (1,000 sf)	Construction Duration (months)	Power Cost
1	General Light Industry	$2.66	1,400.00	46	$171,304.30
	City Park		553.21		$67,691.14
	Parking Lot		2,073.46		$253,708.53
	Government (Civic Center)		16.50		$2,018.94
	Single Family Housing		1,382.55		$169,168.82
	Apartments Low Rise		196.10		$23,994.80
PHASE 1 CONSTRUCTION POWER COST					***$687,886.53***

Phase	Land Use	Power Cost (per 1,000 sf)	Size (1,000 sf)	Construction Duration (months)	Power Cost
2	General Light Industry	$2.66	700.00	52	$96,824.17
	Unrefrigerated Warehouse-No Rail		700.00		$96,824.17
	Strip Mall		50.00		$6,916.01
	City Park		705.67		$97,608.73
	Parking Lot		2,203.27		$304,756.13
	Single Family Housing		912.60		$126,230.83
	Apartments Low Rise		85.86		$11,876.16
PHASE 2 CONSTRUCTION POWER COST					***$741,036.20***
3	General Light Industry	$2.66	700.00	67	$124,754.22
	Unrefrigerated Warehouse-No Rail		700.00		$124,754.22
	Strip Mall		250.00		$44,555.08
	City Park		387.68		$69,093.17
	Parking Lot		557.57		$99,369.95
	Single Family Housing		871.65		$155,345.46
	Apartments Low Rise		85.86		$15,301.97
PHASE 3 CONSTRUCTION POWER COST					***$633,174.07***
4	General Office Building	$2.66	240.00	47	$30,004.85
	Elementary School		50.16		$6,271.27
	City Park		718.74		$89,857.04
	Parking Lot		445.62		$55,711.36
	Single Family Housing		1,343.55		$167,970.62
	Apartments Low Rise		205.64		$25,709.11
PHASE 4 CONSTRUCTION POWER COST					***$375,524.25***
5	Elementary School	$2.66	50.16	59	$7,872.44
	City Park		531.43		$83,403.09
	Single Family Housing		1,066.65		$167,400.05
	Apartments Low Rise		263.94		$41,422.74
PHASE 5 CONSTRUCTION POWER COST					***$300,098.32***
PHASE 1-5 TOTAL CONSTRUCTION POWER COST					***$2,737,719.38***

4.3.2 CONSTRUCTION ELECTRICITY USAGE

The total Project construction electricity usage is the summation of the products of the power cost (estimated in Table 4-3) by the utility provider cost per kilowatt hour (kWh) of electricity.

PROJECT CONSTRUCTION ELECTRICITY USAGE

The SCE's general service rate schedule are used to determine the Project's electrical usage. As of March 28, 2024, SCE's general service rate is $0.15 per kilowatt hours (kWh) of electricity for industrial services and $0.19 for residential services (30). As shown in Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 17,254,892 kWh.

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Phase	Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
1	General Light Industry	$0.15	1,168,196
	City Park		461,614
	Parking Lot		1,730,145
	Government (Civic Center)		13,768
	Single Family Housing	$0.19	889,005
	Apartments Low Rise		126,096
PHASE 1 CONSTRUCTION ELECTRICITY USAGE			***4,388,825***
2	General Light Industry	$0.15	660,285
	Unrefrigerated Warehouse-No Rail		660,285
	Strip Mall		47,163
	City Park		665,635
	Parking Lot		2,078,261
	Single Family Housing	$0.19	663,360
	Apartments Low Rise		62,411
PHASE 2 CONSTRUCTION ELECTRICITY USAGE			***4,837,400***
3	General Light Industry	$0.15	850,752
	Unrefrigerated Warehouse-No Rail		850,752
	Strip Mall		303,840
	City Park		471,175
	Parking Lot		677,646
	Single Family Housing	$0.19	816,362
	Apartments Low Rise		80,414
PHASE 3 CONSTRUCTION ELECTRICITY USAGE			***4,050,940***

Phase	Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
4	General Office Building	$0.15	204,616
	Elementary School		42,766
	City Park		612,773
	Parking Lot		379,919
	Single Family Housing	$0.19	882,709
	Apartments Low Rise		135,105
PHASE 4 CONSTRUCTION ELECTRICITY USAGE			***2,257,888***
5	Elementary School	$0.15	53,685
	City Park		568,761
	Single Family Housing	$0.19	879,710
	Apartments Low Rise		217,682
PHASE 5 CONSTRUCTION ELECTRICITY USAGE			***1,719,839***
PHASE 1-5 TOTAL CONSTRUCTION ELECTRICITY USAGE			***17,254,892***

4.3.3 CONSTRUCTION EQUIPMENT FUEL ESTIMATES

Fuel consumed by construction equipment would be the primary energy resource expended over the course of Project construction.

CONSTRUCTION EQUIPMENT

Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 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 4-4: 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

Phase	Construction Activity	Equipment[1]	Quantity	Hours
	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
		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

Phase	Construction Activity	Equipment[1]	Quantity	Hours
		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
	Paving	Pavers	2	8
		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

Phase	Construction Activity	Equipment[1]	Quantity	Hours
		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

PROJECT CONSTRUCTION EQUIPMENT FUEL CONSUMPTION

Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-7. The aggregate fuel consumption rate for all equipment is estimated at 18.5 horsepower hour per gallon (hp-hr-gal.), obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer Guidelines (31). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered, which is consistent with industry standards.

Diesel fuel would be supplied by existing commercial fuel providers serving the Project area and region.[3] As presented in Table 4-5, Project construction activities would consume an estimated 3,558,727 gallons of diesel fuel. Project construction would represent a "single-event" diesel fuel demand and would not require ongoing or permanent commitment of diesel fuel resources for this purpose.

[3] Based on Appendix A of the CalEEMod User's Guide, Construction consists of several types of off-road equipment. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel.

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (1 OF 5)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
1	Site Preparation	45	Crawler Tractors	87	5	8	0.43	1,496	3,640
			Off-Highway Trucks	376	4	8	0.38	4,572	11,121
	Mass Grading Phase 1 + 2	196	Excavators	36	2	8	0.38	219	2,319
			Graders	148	2	8	0.41	971	10,286
			Rubber Tired Dozers	367	2	8	0.4	2,349	24,885
			Scrapers	423	16	8	0.48	25,989	275,344
			Crawler Tractors	87	4	8	0.43	1,197	12,683
			Off-Highway Trucks	376	3	8	0.38	3,429	36,330
	Building Construction	372	Cranes	367	2	8	0.29	1,703	34,242
			Forklifts	82	6	8	0.2	787	15,829
			Generator Sets	14	2	8	0.74	166	3,333
			Tractors/Loaders/Backho	84	6	8	0.37	1,492	29,998
			Welders	46	2	8	0.45	331	6,660
	Paving	195	Pavers	81	2	8	0.42	544	5,737
			Paving Equipment	89	2	8	0.36	513	5,404
			Rollers	36	2	8	0.38	219	2,307
	Architectural Coating	195	Air Compressors	37	2	8	0.48	284	2,995
PHASE 1 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***483,113***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (2 OF 5)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
2	Site Preparation	34	Crawler Tractors	87	5	8	0.43	1,496	2,750
			Off-Highway Trucks	376	4	8	0.38	4,572	8,403
	Mass Grading Phase 1 + 2	161	Excavators	36	1	8	0.38	109	952
			Graders	148	2	8	0.41	971	8,449
			Rubber Tired Dozers	367	2	8	0.4	2,349	20,441
			Scrapers	423	14	8	0.48	22,740	197,904
			Crawler Tractors	87	4	8	0.43	1,197	10,418
			Off-Highway Trucks	376	4	8	0.38	4,572	39,790
	Building Construction	586	Cranes	367	2	8	0.29	1,703	53,940
			Forklifts	82	7	8	0.2	918	29,091
			Generator Sets	14	2	8	0.74	166	5,251
			Tractors/Loaders/Backho	84	7	8	0.37	1,740	55,131
			Welders	46	2	8	0.45	331	10,491
	Paving	166	Pavers	81	2	8	0.42	544	4,884
			Paving Equipment	89	2	8	0.36	513	4,600
			Rollers	36	2	8	0.38	219	1,964
	Architectural Coating	183	Air Compressors	37	1	8	0.48	142	1,405
PHASE 2 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***455,864***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (3 OF 5)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
3	Site Preparation	132	Crawler Tractors	87	5	8	0.43	1,496	10,677
			Off-Highway Trucks	376	4	8	0.38	4,572	32,623
	Mass Grading Phase 3 + 4	348	Excavators	36	1	8	0.38	109	2,059
			Graders	148	2	8	0.41	971	18,263
			Rubber Tired Dozers	367	2	8	0.4	2,349	44,183
			Scrapers	423	14	8	0.48	22,740	427,767
			Crawler Tractors	87	4	8	0.43	1,197	22,519
			Off-Highway Trucks	376	4	8	0.38	4,572	86,006
	Building Construction	1,000	Cranes	367	3	8	0.29	2,554	138,071
			Forklifts	82	8	8	0.2	1,050	56,735
			Generator Sets	14	3	8	0.74	249	13,440
			Tractors/Loaders/Backho	84	8	8	0.37	1,989	107,520
			Welders	46	3	8	0.45	497	26,854
	Paving	415	Pavers	81	3	8	0.42	816	18,316
			Paving Equipment	89	3	8	0.36	769	17,250
			Rollers	36	3	8	0.38	328	7,365
	Architectural Coating	415	Air Compressors	37	1	8	0.48	142	3,187
PHASE 3 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***1,032,834***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (4 OF 5)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
4	Site Preparation	108	Crawler Tractors	87	5	8	0.43	1,496	8,736
			Off-Highway Trucks	376	4	8	0.38	4,572	26,692
	Mass Grading Phase 3 + 4	328	Excavators	36	1	8	0.38	109	1,940
			Graders	148	2	8	0.41	971	17,213
			Rubber Tired Dozers	367	2	8	0.4	2,349	41,644
			Scrapers	423	14	8	0.48	22,740	403,183
			Crawler Tractors	87	4	8	0.43	1,197	21,225
			Off-Highway Trucks	376	4	8	0.38	4,572	81,063
	Building Construction	607	Cranes	367	2	8	0.29	1,703	55,873
			Forklifts	82	7	8	0.2	918	30,133
			Generator Sets	14	2	8	0.74	166	5,439
			Tractors/Loaders/Backho	84	7	8	0.37	1,740	57,107
			Welders	46	2	8	0.45	331	10,867
	Paving	414	Pavers	81	2	8	0.42	544	12,181
			Paving Equipment	89	2	8	0.36	513	11,472
			Rollers	36	2	8	0.38	219	4,898
	Architectural Coating	414	Air Compressors	37	1	8	0.48	142	3,180
PHASE 4 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***792,844***

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES (5 OF 5)

Phase	Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Fuel Consumption (gallons)
5	Site Preparation	87	Crawler Tractors	87	5	8	0.43	1,496	7,037
			Off-Highway Trucks	376	4	8	0.38	4,572	21,502
	Remedial Grading	283	Excavators	36	1	8	0.38	109	1,674
			Graders	148	2	8	0.41	971	14,852
			Rubber Tired Dozers	367	2	8	0.4	2,349	35,930
			Scrapers	423	14	8	0.48	22,740	347,868
			Crawler Tractors	87	4	8	0.43	1,197	18,313
			Off-Highway Trucks	376	4	8	0.38	4,572	69,942
	Building Construction	934	Cranes	367	2	8	0.29	1,703	85,972
			Forklifts	82	7	8	0.2	918	46,367
			Generator Sets	14	2	8	0.74	166	8,369
			Tractors/Loaders/Backho	84	7	8	0.37	1,740	87,871
			Welders	46	2	8	0.45	331	16,721
	Paving	413	Pavers	81	2	8	0.42	544	12,152
			Paving Equipment	89	2	8	0.36	513	11,444
			Rollers	36	2	8	0.38	219	4,886
	Architectural Coating	413	Air Compressors	37	1	8	0.48	142	3,172
PHASE 5 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***794,071***
PHASES 1-5 TOTAL CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)									***3,558,727***

4.3.4 CONSTRUCTION TRIPS AND VMT

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and haul trucks commuting to and from the site. The number of workers and vendor trips are presented below in Table 4-6. It should be noted that for vendor trips specifically, CalEEMod only assigns vendor trips to the Building Construction phase. Vendor trips would likely occur during all phases of construction. As such, the CalEEMod defaults for vendor trips have been adjusted based on a ratio of the total vendor trips to the number of days of each subphase of activity.

TABLE 4-6: CONSTRUCTION TRIPS AND VMT

Phase	Construction Activity	Worker Trips Per Day	Vendor Trips Per Day
1	Site Preparation	23	47
	Mass Grading Phase 1 + 2	73	79
	Building Construction	982	150
	Paving	15	78
	Architectural Coating	196	0
2	Site Preparation	23	11
	Mass Grading Phase 1 + 2	68	49
	Building Construction	831	183
	Paving	15	52
	Architectural Coating	166	0
3	Site Preparation	23	23
	Mass Grading Phase 3 + 4	68	61
	Building Construction	887	173
	Paving	23	72
	Architectural Coating	177	0
4	Site Preparation	23	11
	Mass Grading Phase 3 + 4	68	32
	Building Construction	486	59
	Paving	15	40
	Architectural Coating	97	0
5	Site Preparation	23	47
	Remedial Grading	73	79
	Building Construction	982	150
	Paving	15	78
	Architectural Coating	196	0

4.3.5 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips (personal vehicles used by workers commuting to the Project from home) would generate an estimated 51,975,140 VMT during Project construction (2). Based on CalEEMod methodology, it is assumed that 50% of all construction worker trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1[4]), and 25% are from light-duty-trucks (LDT2[5]). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2021 version of the EMFAC developed by CARB. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (27). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the Riverside (SC) County for the years 2026 through 2045. Data from EMFAC2021 is shown in Appendix 4.4.

As shown in Table 4-7, the estimated fuel consumption resulting from Project construction worker trips is 1,529,433 gallons. It should be noted that construction worker trips would represent a "single-event" gasoline fuel demand and would not require ongoing or permanent commitment of fuel resources for this purpose.

[4] 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.

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

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
1	2026	LDA						
		Site Preparation	45	12	18.5	9,990	33.43	299
		Mass Grading Phase 1 + 2	87	37	18.5	59,552	33.43	1,781
		LDT1						
		Site Preparation	45	6	18.5	4,995	25.70	194
		Mass Grading Phase 1 + 2	87	19	18.5	30,581	25.70	1,190
		LDT2						
		Site Preparation	45	6	18.5	4,995	26.01	192
		Mass Grading Phase 1 + 2	87	19	18.5	30,581	26.01	1,176
	2027	LDA						
		Mass Grading Phase 1 + 2	109	37	18.5	74,611	34.29	2,176
		Building Construction	152	491	18.5	1,380,692	34.29	40,270
		LDT1						
		Mass Grading Phase 1 + 2	109	19	18.5	38,314	26.22	1,461
		Building Construction	152	246	18.5	691,752	26.22	26,384
		LDT2						
		Mass Grading Phase 1 + 2	109	19	18.5	38,314	26.63	1,439
		Building Construction	152	246	18.5	691,752	26.63	25,979
	2028	LDA						
		Building Construction	220	491	18.5	1,998,370	35.14	56,863
		Paving	40	8	18.5	5,920	35.14	168

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
1	2028	LDT1						
		Building Construction	220	246	18.5	1,001,220	26.76	37,408
		Paving	40	4	18.5	2,960	26.76	111
		LDT2						
		Building Construction	220	246	18.5	1,001,220	27.23	36,768
		Paving	40	4	18.5	2,960	27.23	109
	2029	LDA						
		Paving	155	8	18.5	22,940	35.96	638
		Architectural Coating	106	98	18.5	192,178	35.96	5,344
		LDT1						
		Paving	155	4	18.5	11,470	27.31	420
		Architectural Coating	106	49	18.5	96,089	27.31	3,518
		LDT2						
		Paving	155	4	18.5	11,470	27.79	413
		Architectural Coating	106	49	18.5	96,089	27.79	3,458
	2030	LDA						
		Architectural Coating	89	98	18.5	161,357	36.74	4,392
		LDT1						
		Architectural Coating	89	49	18.5	80,679	27.86	2,896
		LDT2						
		Architectural Coating	89	49	18.5	80,679	28.31	2,850
PHASE 1 CONSTRUCTION WORKER FUEL CONSUMPTION								***257,896***

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
2	2030	LDA						
		Site Preparation	34	12	18.5	7,548	36.74	205
		Mass Grading Phase 1 + 2	138	34	18.5	86,802	36.74	2,363
		LDT1						
		Site Preparation	34	6	18.5	3,774	27.86	135
		Mass Grading Phase 1 + 2	138	17	18.5	43,401	27.86	1,558
		LDT2						
		Site Preparation	34	6	18.5	3,774	28.31	133
		Mass Grading Phase 1 + 2	138	17	18.5	43,401	28.31	1,533
	2031	LDA						
		Mass Grading Phase 1 + 2	23	34	18.5	14,467	37.47	386
		Building Construction	238	416	18.5	1,831,648	37.47	48,881
		LDT1						
		Mass Grading Phase 1 + 2	23	17	18.5	7,234	28.38	255
		Building Construction	238	208	18.5	915,824	28.38	32,266
		LDT2						
		Mass Grading Phase 1 + 2	23	17	18.5	7,234	28.79	251
		Building Construction	238	208	18.5	915,824	28.79	31,811
	2032	LDA						
		Building Construction	262	416	18.5	2,016,352	38.16	52,843
		LDT1						
		Building Construction	262	208	18.5	1,008,176	28.90	34,890
		LDT2						
		Building Construction	262	208	18.5	1,008,176	29.24	34,484

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
2	2033	LDA						
		Building Construction	86	416	18.5	661,856	38.73	17,090
		Paving	166	8	18.5	24,568	38.73	634
		Architectural Coating	8	83	18.5	12,284	38.73	317
		LDT1						
		Building Construction	86	208	18.5	330,928	29.34	11,280
		Paving	166	4	18.5	12,284	29.34	419
		Architectural Coating	8	42	18.5	6,216	29.34	212
		LDT2						
		Building Construction	86	208	18.5	330,928	29.60	11,181
		Paving	166	4	18.5	12,284	29.60	415
		Architectural Coating	8	42	18.5	6,216	29.60	210
	2034	LDA						
		Architectural Coating	175	83	18.5	268,713	39.29	6,839
		LDT1						
		Architectural Coating	175	42	18.5	135,975	29.80	4,564
		LDT2						
		Architectural Coating	175	42	18.5	135,975	29.96	4,538
PHASE 2 CONSTRUCTION WORKER FUEL CONSUMPTION								***299,693***

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
3	2033	LDA						
		Site Preparation	132	12	18.5	29,304	38.73	757
		Mass Grading Phase 3 + 4	43	34	18.5	27,047	38.73	698
		LDT1						
		Site Preparation	132	6	18.5	14,652	29.34	499
		Mass Grading Phase 3 + 4	43	17	18.5	13,524	29.34	461
		LDT2						
		Site Preparation	132	6	18.5	14,652	29.60	495
		Mass Grading Phase 3 + 4	43	17	18.5	13,524	29.60	457
	2034	LDA						
		Mass Grading Phase 3 + 4	260	34	18.5	163,540	39.29	4,162
		LDT1						
		Mass Grading Phase 3 + 4	260	17	18.5	81,770	29.80	2,744
		LDT2						
		Mass Grading Phase 3 + 4	260	222	18.5	1,067,820	29.96	35,640
	2035	LDA						
		Mass Grading Phase 3 + 4	45	34	18.5	28,305	39.80	711
		Building Construction	216	444	18.5	1,774,224	39.80	44,579
		LDT1						
		Mass Grading Phase 3 + 4	45	17	18.5	14,153	30.22	468
		Building Construction	216	222	18.5	887,112	30.22	29,356
		LDT2						
		Mass Grading Phase 3 + 4	45	17	18.5	14,153	30.29	467
		Building Construction	216	222	18.5	887,112	30.29	29,289

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
3	2036	LDA						
		Building Construction	262	444	18.5	2,152,068	40.27	53,442
		LDT1						
		Building Construction	262	222	18.5	1,076,034	30.63	35,125
		LDT2						
		Building Construction	262	222	18.5	1,076,034	30.60	35,168
	2037	LDA						
		Building Construction	261	444	18.5	2,143,854	40.66	52,726
		Paving	154	12	18.5	34,188	40.66	841
		Architectural Coating	154	89	18.5	253,561	40.66	6,236
		LDT1						
		Building Construction	261	222	18.5	1,071,927	31.00	34,578
		Paving	154	6	18.5	17,094	31.00	551
		Architectural Coating	154	45	18.5	128,205	31.00	4,136
		LDT2						
		Building Construction	261	222	18.5	1,071,927	30.86	34,740
		Paving	154	6	18.5	17,094	30.86	554
		Architectural Coating	154	45	18.5	128,205	30.86	4,155
	2038	LDA						
		Building Construction	261	444	18.5	2,143,854	41.00	52,288
		Paving	261	12	18.5	57,942	41.00	1,413
		Architectural Coating	261	89	18.5	429,737	41.00	10,481

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
3	2038	LDT1						
		Building Construction	261	222	18.5	1,071,927	31.34	34,201
		Paving	261	6	18.5	28,971	31.34	924
		Architectural Coating	261	45	18.5	217,283	31.34	6,933
		LDT2						
		Building Construction	261	222	18.5	1,071,927	31.09	34,481
		Paving	261	6	18.5	28,971	31.09	932
		Architectural Coating	261	45	18.5	217,283	31.09	6,989
PHASE 3 CONSTRUCTION WORKER FUEL CONSUMPTION								***561,680***
4	2037	LDA						
		Site Preparation	108	12	18.5	23,976	40.66	590
		Mass Grading Phase 3 + 4	153	34	18.5	96,237	40.66	2,367
		LDT1						
		Site Preparation	108	6	18.5	11,988	31.00	387
		Mass Grading Phase 3 + 4	153	17	18.5	48,119	31.00	1,552
		LDT2						
		Site Preparation	108	6	18.5	11,988	30.86	389
		Mass Grading Phase 3 + 4	153	17	18.5	48,119	30.86	1,559
	2038	LDA						
		Mass Grading Phase 3 + 4	175	34	18.5	110,075	41.00	2,685
		Building Construction	86	243	18.5	386,613	41.00	9,429
		LDT1						
		Mass Grading Phase 3 + 4	175	17	18.5	55,038	31.34	1,756
		Building Construction	86	122	18.5	194,102	31.34	6,193

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
4	2038	LDT2						
		Mass Grading Phase 3 + 4	175	17	18.5	55,038	31.09	1,770
		Building Construction	86	122	18.5	194,102	31.09	6,244
	2039	LDA						
		Building Construction	260	243	18.5	1,168,830	41.28	28,312
		Paving	153	8	18.5	22,644	41.28	548
		Architectural Coating	153	49	18.5	138,695	41.28	3,360
		LDT1						
		Building Construction	260	122	18.5	586,820	31.65	18,541
		Paving	153	4	18.5	11,322	31.65	358
		Architectural Coating	153	25	18.5	70,763	31.65	2,236
		LDT2						
		Building Construction	260	122	18.5	586,820	31.28	18,758
		Paving	153	4	18.5	11,322	31.28	362
		Architectural Coating	153	25	18.5	70,763	31.28	2,262
	2040	LDA						
		Building Construction	261	243	18.5	1,173,326	41.52	28,258
		Paving	261	8	18.5	38,628	41.52	930
		Architectural Coating	261	49	18.5	236,597	41.52	5,698
		LDT1						
		Building Construction	261	122	18.5	589,077	31.93	18,450
		Paving	261	4	18.5	19,314	31.93	605
		Architectural Coating	261	25	18.5	120,713	31.93	3,781

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
4	2040	LDT2						
		Architectural Coating	261	122	18.5	589,077	31.45	18,729
		Building Construction	261	4	18.5	19,314	31.45	614
		Paving	261	25	18.5	120,713	31.45	3,838
PHASE 4 CONSTRUCTION WORKER FUEL CONSUMPTION								***190,560***
5	2041	LDA						
		Site Preparation	87	12	18.5	19,314	41.72	463
		Remedial Grading	174	34	18.5	109,446	41.72	2,624
		LDT1						
		Site Preparation	87	6	18.5	9,657	32.18	300
		Remedial Grading	174	17	18.5	54,723	32.18	1,700
		LDT2						
		Site Preparation	87	6	18.5	9,657	31.60	306
		Remedial Grading	174	17	18.5	54,723	31.60	1,732
	2042	LDA						
		Remedial Grading	109	34	18.5	68,561	41.88	1,637
		Building Construction	152	199	18.5	559,588	41.88	13,363
		LDT1						
		Remedial Grading	109	17	18.5	34,281	32.42	1,057
		Building Construction	152	100	18.5	281,200	32.42	8,675
		LDT2						
		Remedial Grading	109	17	18.5	34,281	31.72	1,081
		Building Construction	152	100	18.5	281,200	31.72	8,864

Phase	Year	Construction Activity	Duration (Days)	Worker (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
5	2043	LDA						
		Building Construction	261	199	18.5	960,872	42.00	22,875
		LDT1						
		Building Construction	261	100	18.5	482,850	32.63	14,798
		LDT2						
		Building Construction	261	100	18.5	482,850	31.83	15,168
	2044	LDA						
		Building Construction	261	199	18.5	960,872	42.11	22,820
		Paving	153	8	18.5	22,644	42.11	538
		Architectural Coating	153	40	18.5	113,220	42.11	2,689
		LDT1						
		Building Construction	261	100	18.5	482,850	32.82	14,714
		Paving	153	4	18.5	11,322	32.82	345
		Architectural Coating	153	20	18.5	56,610	32.82	1,725
		LDT2						
		Building Construction	261	100	18.5	482,850	31.92	15,125
		Paving	153	4	18.5	11,322	31.92	355
		Architectural Coating	153	20	18.5	56,610	31.92	1,773
	2045	LDA						
		Building Construction	260	199	18.5	957,190	42.19	22,687
		Paving	260	8	18.5	38,480	42.19	912
		Architectural Coating	260	40	18.5	192,400	42.19	4,560

Phase	**Year**	**Construction Activity**	**Duration** (Days)	**Worker** (Trips/Day)	**Trip Length** (miles)	**Vehicle Miles Traveled**	**Average Vehicle Fuel Economy** (mpg)	**Estimated Fuel Consumption** (gallons)
5	2045	LDT1						
		Building Construction	260	100	18.5	481,000	32.98	14,583
		Paving	260	4	18.5	19,240	32.98	583
		Architectural Coating	260	20	18.5	96,200	32.98	2,917
		LDT2						
		Building Construction	260	100	18.5	481,000	32.00	15,029
		Paving	260	4	18.5	19,240	32.00	601
		Architectural Coating	260	20	18.5	96,200	32.00	3,006
PHASE 2 CONSTRUCTION WORKER FUEL CONSUMPTION								***219,604***
PHASE 1-5 TOTAL CONSTRUCTION WORKER FUEL CONSUMPTION								***1,529,433***

4.3.6 CONSTRUCTION VENDOR AND HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips (vehicles that deliver materials to the site during construction) and material hauling trips would generate an estimated 5,799,761 VMT along area roadways during Project construction (2). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHD) and 50% of all vendor trips are from heavy-heavy duty trucks (HHD). Hauling trips are assumed to be performed only by HHD trucks. These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (2). Vehicle fuel efficiencies for MHDs and HHDs were estimated using information generated within EMFAC2021. EMFAC2021 was run for the MHD and HHD vehicle classes within the Riverside (SC) for the 2026 through 2045 calendar years. Data from EMFAC2021 is shown in Appendix 4.4.

Based in Table 4-8, it is estimated that 613,506 gallons of fuel will be consumed related to construction vendor and hauling trips during construction. It should be noted that Project construction vendor trips would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

TABLE 4-8: CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION ESTIMATES

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
1	2026	MHDT						
		Site Preparation	45	10	10.2	4,590	8.72	526
		Mass Grading Phase 1 + 2	87	40	10.2	35,496	8.72	4,068
		HHDT						
		Site Preparation	45	10	10.2	4,590	6.33	726
		Mass Grading Phase 1 + 2	87	40	10.2	35,496	6.33	5,611
	2027	MHDT						
		Mass Grading Phase 1 + 2	109	40	10.2	44,472	8.87	5,012
		Building Construction	152	75	10.2	116,280	8.87	13,104
		HHDT						
		Mass Grading Phase 1 + 2	109	40	10.2	44,472	6.45	6,894
		Building Construction	152	75	10.2	116,280	6.45	18,026
	2028	MHDT						
		Building Construction	220	75	10.2	168,300	9.09	18,522
		Paving	40	39	10.2	15,912	9.09	1,751
		HHDT						
		Building Construction	220	75	10.2	168,300	6.60	25,507
		Paving	40	39	10.2	15,912	6.60	2,412
	2029	MHDT						
		Paving	155	39	10.2	61,659	9.37	6,583
		HHDT						
		Paving	155	39	10.2	61,659	6.76	9,121

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
PHASE 1 CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***117,861***
2	2030	MHDT						
		Site Preparation	34	6	10.2	2,081	9.72	214
		Mass Grading Phase 1 + 2	138	25	10.2	35,190	9.72	3,620
		HHDT						
		Site Preparation	34	6	10.2	2,081	6.93	300
		Mass Grading Phase 1 + 2	138	25	10.2	35,190	6.93	5,075
	2031	MHDT						
		Mass Grading Phase 1 + 2	23	25	10.2	5,865	10.15	578
		Building Construction	238	92	10.2	223,339	10.15	22,003
		HHDT						
		Mass Grading Phase 1 + 2	23	25	10.2	5,865	7.12	824
		Building Construction	238	92	10.2	223,339	7.12	31,369
	2032	MHDT						
		Building Construction	262	92	10.2	245,861	10.63	23,129
		HHDT						
		Building Construction	262	92	10.2	245,861	7.31	33,628
	2033	MHDT						
		Building Construction	86	92	10.2	80,702	11.14	7,242
		Paving	166	26	10.2	44,023	11.14	3,950
		HHDT						
		Building Construction	86	92	10.2	80,702	7.49	10,770
		Paving	166	26	10.2	44,023	7.49	5,875
PHASE 2 CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***148,577***

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
3	2033	MHDT						
		Site Preparation	132	12	10.2	16,157	11.14	1,450
		Mass Grading Phase 3 + 4	43	31	10.2	13,597	11.14	1,220
		HHDT						
		Site Preparation	132	12	10.2	16,157	7.49	2,156
		Mass Grading Phase 3 + 4	43	31	10.2	13,597	7.49	1,815
	2034	MHDT						
		Mass Grading Phase 3 + 4	260	31	10.2	82,212	11.73	7,006
		HHDT						
		Mass Grading Phase 3 + 4	260	31	10.2	82,212	7.68	10,707
	2035	MHDT						
		Mass Grading Phase 3 + 4	45	31	10.2	14,229	12.38	1,149
		Building Construction	216	87	10.2	191,678	12.38	15,483
		HHDT						
		Mass Grading Phase 3 + 4	45	31	10.2	14,229	7.86	1,811
		Building Construction	216	87	10.2	191,678	7.86	24,396
	2036	MHDT						
		Building Construction	262	87	10.2	232,499	13.05	17,812
		HHDT						
		Building Construction	262	87	10.2	232,499	8.03	28,936
	2037	MHDT						
		Building Construction	261	87	10.2	231,611	13.72	16,884
		Paving	154	36	10.2	56,549	13.72	4,122

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
3	2037	HHDT						
		Building Construction	261	87	10.2	231,611	8.19	28,275
		Paving	154	36	10.2	56,549	8.19	6,903
	2038	MHDT						
		Building Construction	261	87	10.2	231,611	14.39	16,095
		Paving	261	36	10.2	95,839	14.39	6,660
		HHDT						
		Building Construction	261	87	10.2	231,611	8.34	27,783
		Paving	261	36	10.2	95,839	8.34	11,496
PHASE 3 CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***232,160***
4	2037	MHDT						
		Site Preparation	108	6	10.2	6,610	13.72	482
		Mass Grading Phase 3 + 4	153	16	10.2	24,970	13.72	1,820
		HHDT						
		Site Preparation	108	6	10.2	6,610	8.19	807
		Mass Grading Phase 3 + 4	153	16	10.2	24,970	8.19	3,048
	2038	MHDT						
		Mass Grading Phase 3 + 4	175	16	10.2	28,560	14.39	1,985
		Building Construction	86	30	10.2	26,316	14.39	1,829
		HHDT						
		Mass Grading Phase 3 + 4	175	16	10.2	28,560	8.34	3,426
		Building Construction	86	30	10.2	26,316	8.34	3,157

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
4	2039	MHDT						
		Building Construction	260	30	10.2	79,560	15.05	5,286
		Paving	153	20	10.2	31,212	15.05	2,074
		HHDT						
		Building Construction	260	30	10.2	79,560	8.46	9,400
		Paving	153	20	10.2	31,212	8.46	3,688
	2040	MHDT						
		Building Construction	261	30	10.2	79,866	15.71	5,084
		Paving	261	20	10.2	53,244	15.71	3,389
		HHDT						
		Building Construction	261	30	10.2	79,866	8.58	9,312
		Paving	261	20	10.2	53,244	8.58	6,208
PHASE 4 CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***60,994***
5	2041	MHDT						
		Site Preparation	87	3	10.2	2,662	16.37	163
		Remedial Grading	174	8	10.2	14,198	16.37	867
		HHDT						
		Site Preparation	87	3	10.2	2,662	8.67	307
		Remedial Grading	174	8	10.2	14,198	8.67	1,637
	2042	MHDT						
		Remedial Grading	109	8	10.2	8,894	17.02	523
		Building Construction	152	26	10.2	40,310	17.02	2,368

Phase	Year	Construction Activity	Duration (Days)	Vendor/ Hauling (Trips/Day)	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
5	2042	HHDT						
		Remedial Grading	109	8	10.2	8,894	8.76	1,016
		Building Construction	152	26	10.2	40,310	8.76	4,603
	2043	MHDT						
		Building Construction	261	26	10.2	69,217	17.65	3,922
		HHDT						
		Building Construction	261	26	10.2	69,217	8.82	7,843
	2044	MHDT						
		Building Construction	261	26	10.2	69,217	18.25	3,792
		Paving	153	11	10.2	17,167	18.25	941
		HHDT						
		Building Construction	261	26	10.2	69,217	8.88	7,794
		Paving	153	11	10.2	17,167	8.88	1,933
	2045	MHDT						
		Paving	260	26	10.2	68,952	18.81	3,666
		Architectural Coating	260	11	10.2	29,172	18.81	1,551
		HHDT						
		Paving	260	26	10.2	68,952	8.93	7,723
		Architectural Coating	260	11	10.2	29,172	8.93	3,268
PHASE 5 CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***53,915***
PHASE 1-5 TOTAL CONSTRUCTION VENDOR/HAULING FUEL CONSUMPTION								***613,506***

4.3.7 CONSTRUCTION ENERGY EFFICIENCY/CONSERVATION MEASURES

Starting in 2014, CARB adopted the nation's first regulation aimed at cleaning up off-road construction equipment such as bulldozers, graders, and backhoes. These requirements ensure fleets gradually turnover the oldest and dirtiest equipment to newer, cleaner models and prevent fleets from adding older, dirtier equipment. As such, the equipment used for Project construction would conform to CARB regulations and California emissions standards. It should also be noted that there are no unusual Project characteristics or construction processes that would require the use of equipment that would be more energy intensive than is used for comparable activities; or equipment that would not conform to current emissions standards (and related fuel efficiencies). Equipment employed in the construction of the Project would therefore not result in inefficient wasteful, or unnecessary consumption of fuel.

Construction contractors would be required to comply with applicable CARB regulations regarding retrofitting, repowering, or replacement of diesel off-road construction equipment. Additionally, CARB has adopted the Airborne Toxic Control Measure to limit heavy-duty diesel motor vehicle idling in order to reduce public exposure to diesel particulate matter and other Toxic Air Contaminants. Compliance with anti-idling and emissions regulations would result in a more efficient use of construction-related energy and the minimization or elimination of wasteful or unnecessary consumption of energy. Idling restrictions and the use of newer engines and equipment would result in less fuel combustion and energy consumption.

Additional construction-source energy efficiencies would occur due to required California regulations and best available control measures (BACM). For example, CCR Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than five minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. Section 2449(d)(3) requires that grading plans shall reference the requirement that a sign shall be posted on-site stating that construction workers need to shut off engines at or before five minutes of idling." In this manner, construction equipment operators are required to be informed that engines are to be turned off at or prior to five minutes of idling. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

A full analysis related to the energy needed to form construction materials is not included in this analysis due to a lack of detailed Project-specific information on construction materials. At this time, an analysis of the energy needed to create Project-related construction materials would be extremely speculative and thus has not been prepared.

In general, construction processes promote conservation and efficient use of energy by reducing raw materials demands, with related reduction in energy demands associated with raw materials extraction, transportation, processing, and refinement. Use of materials in bulk reduces energy demands associated with preparation and transport of construction materials as well as the transport and disposal of construction waste and solid waste in general, with corollary reduced demands on area landfill capacities and energy consumed by waste transport and landfill operations.

4.4 OPERATIONAL ENERGY DEMANDS

Energy consumption in support of or related to Project operations would include transportation fuel demands (fuel consumed by passenger car and truck vehicles accessing the Project site), fuel demands from operational equipment, and facilities energy demands (energy consumed by building operations and site maintenance activities).

4.4.1 TRANSPORTATION FUEL DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The VMT per vehicle class can be determined by evaluating the vehicle fleet mix and the total VMT. As with worker and vendors trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2021 developed by CARB (27). EMFAC2021 was run for the Riverside (SC) for the 2030, 2035, 2038, 2040 and 2045 calendar years. Data from EMFAC2021 is shown in Appendix 4.4.

The estimated transportation energy demands are summarized in Table 4-9. As summarized in Table 4-10 the Project would result in 593,238,704 annual VMT and 23,217,189 gallons per year during operations.

TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
1	LDA	36.74	15,856,630	431,573
	LDT1	27.86	1,110,867	39,880
	LDT2	28.31	7,026,649	248,194
	MDV	22.91	4,957,844	216,436
	LHDT1	18.91	3,848,025	203,530
	LHDT2	17.52	1,102,986	62,947
	MHDT	9.72	2,166,164	101,807
	HHDT	6.93	8,087,525	1,166,310
	OBUS	7.42	12,204	1,644
	UBUS	8.73	8,028	920
	MCY	42.56	705,184	16,569
	SBUS	6.63	28,184	4,254
	MH	5.95	103,726	17,429
	TRUs	-	-	238,525
PHASE 1 FUEL CONSUMPTION (ALL VEHICLES)			***45,014,016***	***2,750,017***

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
2	LDA	39.80	33,540,598	842,746
	LDT1	30.22	2,184,892	72,301
	LDT2	30.29	15,823,637	522,438
	MDV	24.88	10,438,892	419,596
	LHDT1	23.15	5,206,295	224,907
	LHDT2	21.00	1,475,927	70,269
	MHDT	12.38	3,812,800	307,991
	HHDT	7.86	12,477,540	1,588,072
	OBUS	8.50	21,464	2,526
	UBUS	12.28	14,478	1,179
	MCY	43.04	1,429,469	33,211
	SBUS	7.28	49,597	6,816
	MH	6.04	150,637	24,958
	TRUs	-	-	238,182
PHASE 2 FUEL CONSUMPTION (ALL VEHICLES)			***86,626,227***	***4,355,191***
3	LDA	41.00	56,546,137	1,379,157
	LDT1	31.34	3,574,227	114,041
	LDT2	31.09	27,272,002	877,275
	MDV	25.73	17,604,861	684,323
	LHDT1	26.47	6,963,189	263,061
	LHDT2	23.86	1,944,121	81,468
	MHDT	14.39	5,744,275	399,172
	HHDT	8.34	17,129,533	2,054,757
	OBUS	9.11	37,770	4,144
	UBUS	15.76	28,667	1,819
	MCY	43.27	2,368,236	54,737
	SBUS	7.85	83,534	10,641
	MH	6.07	235,578	38,837
	TRUs	-	-	238,180
PHASE 3 FUEL CONSUMPTION (ALL VEHICLES)			***139,532,128***	***6,201,612***

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual Vehicle Miles Traveled	Estimated Annual Fuel Consumption (gallons)
4	LDA	41.52	64,251,787	1,547,439
	LDT1	31.93	3,994,107	125,093
	LDT2	31.45	31,290,473	994,829
	MDV	26.14	19,981,177	764,422
	LHDT1	28.61	7,354,956	257,046
	LHDT2	25.74	2,036,974	79,124
	MHDT	15.71	6,024,451	101,807
	HHDT	8.58	17,438,598	2,033,285
	OBUS	9.46	44,883	4,747
	UBUS	19.35	36,407	1,882
	MCY	43.37	2,662,145	61,381
	SBUS	8.38	93,890	11,206
	MH	6.07	258,961	42,629
	TRUs	-	-	238,152
PHASE 4 FUEL CONSUMPTION (ALL VEHICLES)			***155,468,810***	***6,263,043***
5	LDA	42.19	69,507,031	1,647,467
	LDT1	32.98	4,189,957	127,027
	LDT2	32.00	34,252,715	1,070,253
	MDV	26.78	21,557,835	804,872
	LHDT1	33.61	7,623,712	226,810
	LHDT2	30.10	2,095,993	69,638
	MHDT	18.81	6,336,265	101,807
	HHDT	8.93	17,789,030	1,992,525
	OBUS	10.06	49,080	4,879
	UBUS	105.65	46,385	439
	MCY	43.58	2,812,300	64,534
	SBUS	10.50	95,754	9,119
	MH	6.07	241,466	39,789
	TRUs	-	-	238,184
PHASE 5 FUEL CONSUMPTION (ALL VEHICLES)			***166,597,523***	***6,397,343***
PHASE 1-5 TOTAL FUEL CONSUMPTION (ALL VEHICLES)			***593,238,704***	***23,217,189***

4.4.2 ON-SITE CARGO HANDLING EQUIPMENT FUEL DEMANDS

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[6] for 365 days of the year under both scenarios. Based on usage factors from EMFAC 2021, it is estimated that on-site cargo handling equipment would consume 74,270 gallons of fuel per year.

TABLE 4-10: ON-SITE CARGO HANDING EQUIPMENT FUEL CONSUMPTION

Duration (Days)	Equipment	Quantity	Usage Hours	Fuel Consumption (gals./yr.)	Activity (hrs./yr)	Total Fuel Consumption
365	Cargo Handling Equipment - Port Tractor	16	4	31,673	9,962	74,270

4.4.3 STATIONARY SOURCE ENERGY DEMANDS

Fuel consumption estimates from stationary sources are presented in Table 4-11. As previously stated, the aggregate fuel consumption rate for all equipment is estimated at 18.5 hp-hr-gal., obtained from CARB 2018 Emissions Factors Tables and cited fuel consumption rate factors presented in Table D-24 of the Moyer guidelines. The proposed Project was conservatively assumed to include installation of eight 300-horsepower diesel-powered fire pumps at Project buildout (one for each 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. Diesel fuel would be supplied by existing commercial fuel providers serving the region. As presented in Table 4-11, Project stationary sources would consume an estimated 6,025 gallons of diesel fuel.

TABLE 4-11: STATIONARY SOURCE EQUIPMENT FUEL CONSUMPTION ESTIMATES

Equipment	HP Rating	Quantity	Usage Hours	Annual Hourly Usage	Load Factor	HP-hrs/day	Total Fuel Consumption
Fire Pump	300	8	1	50	0.73	219	4,519
Emergency Generator	800	1	1	50	0.73	219	1,506
STATIONARY SOURCE FUEL DEMAND (GALLONS DIESEL FUEL)							***6,025***

[6] Based in 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.

4.4.4 FACILITY ENERGY DEMANDS

ENERGY DEMAND WITHOUT MITIGATION

Project building operations activities would result in the consumption of electricity, which would be supplied to the Project by SCE. It should be noted that there is no natural gas usage associated with the proposed Project. Annual electricity demands without mitigation for the Project are summarized in Table 4-12 and would consume 86,659,772 kWh/year of electricity demand.

TABLE 4-12: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITHOUT MITIGATION

Phase	Land Use	Electricity Demand (kWh/year)
1	General Light Industry	6,698,350
	Government (Civic Center)	287,812
	Single Family Housing	6,621,524
	Apartments Low Rise	1,266,656
	Parking Lot	1,815,584
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 1 PROJECT ENERGY DEMAND	***31,998,611***
2	General Light Industry	13,396,700
	Government (Civic Center)	287,812
	Single Family Housing	10,992,290
	Apartments Low Rise	1,821,246
	Parking Lot	3,745,644
	Unrefrigerated Warehouse-No Rail	3,221,646
	Strip Mall	487,920
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 2 PROJECT ENERGY DEMAND	***49,261,943***
3	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	15,166,932
	Apartments Low Rise	2,375,836
3	Parking Lot	4,248,956
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	Refrigerated Warehouse-No Rail	15,308,685

Phase	Land Use	Electricity Demand (kWh/year)
	PHASE 3 PROJECT ENERGY DEMAND	***66,854,080***
4	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	21,601,671
	Apartments Low Rise	3,704,114
	Parking Lot	4,638,936
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	General Office Building	4,186,361
	Elementary School	326,458
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 4 PROJECT ENERGY DEMAND	***79,519,897***
5	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	26,710,237
	Apartments Low Rise	5,408,965
	Parking Lot	4,638,936
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	General Office Building	4,186,361
	Elementary School	652,916
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 5 PROJECT ENERGY DEMAND	***86,659,772***

kWh - Kilo Watt Hours

MITIGATION MEASURES

MMs AQ-9 and GHG-1are the only applicable measure that can readily be quantified and reduce energy demand and has been quantified in the CalEEMod run.

MM AQ-9

Build homes that exceed minimum statewide energy 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.

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 feasible, above that which is required under the 2022 Title 24 Building Energy Efficiency Standards (Part 6 of Title 24 of the California Code of Regulations)
- 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.

ENERGY DEMAND WITH MITIGATION

Pursuant to MMs AQ-9 and GHG-1, the Project would further reduce energy usage and as summarized in Table 4-13 would result in 85,685,924 kWh/year of electricity demand.

TABLE 4-13: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY – WITH MITIGATION

Phase	Land Use	Electricity Demand (kWh/year)
1	General Light Industry	6,698,350
	Government (Civic Center)	287,812
	Single Family Housing	6,428,105
	Apartments Low Rise	1,221,313
	Parking Lot	1,815,584
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 1 PROJECT ENERGY DEMAND	***31,759,850***
2	General Light Industry	13,396,700
	Government (Civic Center)	287,812
	Single Family Housing	10,671,199
	Apartments Low Rise	1,756,051
	Parking Lot	3,745,644
	Unrefrigerated Warehouse-No Rail	3,221,646
	Strip Mall	487,920
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 2 PROJECT ENERGY DEMAND	***48,875,656***
3	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	14,723,897
	Apartments Low Rise	2,290,788
	Parking Lot	4,248,956
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 3 PROJECT ENERGY DEMAND	***66,325,997***
4	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	20,970,673
	Apartments Low Rise	3,571,516
	Parking Lot	4,638,936

Phase	Land Use	Electricity Demand (kWh/year)
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	General Office Building	4,186,361
	Elementary School	326,458
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 4 PROJECT ENERGY DEMAND	***78,756,302***
5	General Light Industry	20,095,049
	Government (Civic Center)	287,812
	Single Family Housing	25,930,015
	Apartments Low Rise	5,215,338
	Parking Lot	4,638,936
	Unrefrigerated Warehouse-No Rail	6,443,292
	Strip Mall	2,927,518
	General Office Building	4,186,361
	Elementary School	652,916
	Refrigerated Warehouse-No Rail	15,308,685
	PHASE 5 PROJECT ENERGY DEMAND	***85,685,924***

kWh - Kilo Watt Hours

4.4.5 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

Energy efficiency/energy conservation attributes of the Project would be complemented by increasingly stringent state and federal regulatory actions addressing vehicle fuel economies and vehicle emissions standards; and enhanced building/utilities energy efficiencies mandated under California building codes (e.g., Title 24, California Green Building Standards Code).

ENHANCED VEHICLE FUEL EFFICIENCIES

Project annual fuel consumption estimates presented previously in Table 4-9 represent likely potential maximums that would occur for the Project. Under subsequent future conditions, average fuel economies of vehicles accessing the Project site can be expected to improve as older, less fuel-efficient vehicles are removed from circulation, and in response to fuel economy and emissions standards imposed on newer vehicles entering the circulation system.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the

Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands.

4.5 COMPARISON TO CURRENTLY ADOPTED PROJECT

4.5.1 CURRENTLY ADOPTED PROJECT TRANSPORTATION ENERGY DEMANDS

The estimated transportation energy demands 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 4-14.

TABLE 4-14: CURRENTLY ADOPTED PROJECT TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

Vehicle Type	Annual VMT	Estimated Annual Fuel Consumption (gallons)
All Vehicles	84,356,604	2,592,608

4.5.2 COMPARISON TO CURRENTLY ADOPTED PROJECT TRANSPORTATION ENERGY DEMANDS

As shown in Table 4-15, the proposed Project is anticipated to require more annual fuel as compared to transportation energy demands of the Currently Adopted Project land uses.

TABLE 4-15: TRANSPORTATION ENERGY DEMANDS COMPARISON

Source	Estimated Annual Fuel Consumption (gallons)
Proposed Project	**5,406,930**
Currently Adopted Project	2,592,608
VARIANCE (PROPOSED – CURRENTLY ADOPTED)	***2,814,322***

4.5.3 CURRENTLY ADOPTED PROJECT FACILITY ENERGY DEMANDS

The estimated facility energy demands from the Currently Adopted Project are summarized in Table 4-16.

TABLE 4-16: CURRENTLY ADOPTED PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Source	Natural Gas Demand	Electricity Demand
	(kBTU/year)	(kWh/year)
Currently Adopted Project	127,379,008	36,365,009

4.5.4 COMPARISON TO CURRENTLY ADOPTED PROJECT FACILITY ENERGY DEMANDS

As shown in Table 4-17, the proposed Project is anticipated to require no natural gas. However, the proposed Project is expected to consume more electricity compared to the Currently Adopted Project.

TABLE 4-17: FACILITY ENERGY DEMANDS COMPARISON

Source	Natural Gas Demand	Electricity Demand
	(kBTU/year)	(kWh/year)
Proposed Project	0	85,685,924
Currently Adopted Project	127,379,008	36,365,009
VARIANCE (PROPOSED – CURRENTLY ADOPTED)	***-127,379,008***	***49,320,915***

4.6 SUMMARY

4.6.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be approximately $2,737,719.38. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project buildout, is calculated to be approximately 17,254,892 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 3,558,727 gallons of diesel fuel during construction. Construction equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed construction process that are unusual or energy-intensive, and Project construction equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

CCR Title 13, Title 13, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 1,529,433 gallons during construction. Additionally, fuel consumption from construction vendor trips (MHDs and HHDs) and hauling (HHDs) will total approximately 613,506 gallons of fuel will be consumed related to construction vendor and hauling trips construction. Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 2023 IEPR released by the CEC has shown that fuel efficiencies are getting better within on and off-road vehicle engines due to more stringent

government requirements (32). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.6.2 Operational Energy Demands

Transportation Energy Demands

Annual vehicular trips and related VMT generated by the operation of the Project would result in a fuel demand of 593,238,704 annual VMT and 23,217,189 gallons per year during operations.

Fuel would be provided by current and future commercial vendors. Trip generation and VMT generated by the Project are consistent with other industrial uses of similar scale and configuration, as reflected respectively in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Ed., 2021); and CalEEMod. As such, Project operations would not result in excessive and wasteful vehicle trips and VMT, nor excess and wasteful vehicle energy consumption compared to other industrial uses.

It should be noted that the state strategy for the transportation sector for medium and heavy-duty trucks is focused on making trucks more efficient and expediting truck turnover rather than reducing VMT from trucks. This is in contrast to the passenger vehicle component of the transportation sector where both per-capita VMT reductions and an increase in vehicle efficiency are forecasted to be needed to achieve the overall state emissions reductions goals.

Heavy duty trucks involved in goods movements are generally controlled on the technology side and through fleet turnover of older trucks and engines to newer and cleaner trucks and engines. The first battery-electric heavy-heavy duty trucks are being tested this year and SCAQMD is looking to integrate this new technology into large-scale truck operations. The following state strategies reduce GHG emissions from the medium and heavy-duty trucks:

- CARB's Mobile Source Strategy focuses on reducing GHGs through the transition to zero and low emission vehicles and from medium-duty and heavy-duty trucks.
- CARB's Sustainable Freight Action Plan establishes a goal to improve freight efficiency by 25% by 2030, deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
- CARB's Emissions Reduction Plan for Ports and Goods Movement (Goods Movement Plan) in California focuses on reducing heavy-duty truck-related emissions focus on establishment of emissions standards for trucks, fleet turnover, truck retrofits, and restriction on truck idling (CARB 2006). While the focus of Goods Movement Plan is to reduce criteria air pollutant and air toxic emissions, the strategies to reduce these pollutants would also generally have a beneficial effect in reducing GHG emissions.
- CARB's On-Road Truck and Bus Regulation (2010) requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent (33).

- CARB's Heavy-Duty (Tractor-Trailer) GHG Regulation requires SmartWay tractor trailers that include idle-reduction technologies, aerodynamic technologies, and low-rolling resistant tires that would reduce fuel consumption and associated GHG emissions.

The proposed Project would implement project design features that would facilitate the accessibility, parking, and loading of trucks on-site.

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code and City requirements, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

FACILITY ENERGY DEMANDS

Project facility operational energy demands with mitigation are estimated at: 85,685,924 kWh/year of electricity which would be supplied by SCE. It should be noted that there is no natural gas usage associated with the proposed Project. The Project proposes conventional industrial uses reflecting contemporary energy efficient/energy conserving designs and operational programs. The Project does not propose uses that are inherently energy intensive and the energy demands in total would be comparable to other industrial uses of similar scale and configuration.

Lastly, the Project will comply with the applicable Title 24 standards. Compliance itself with applicable Title 24 standards will ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary.

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5 CONCLUSIONS

5.1 ENERGY IMPACT 1

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

As supported by the preceding analyses, Project construction and operations would not result in the inefficient, wasteful, or unnecessary consumption of energy. The Project would therefore not cause or result in the need for additional energy producing or transmission facilities. Additionally, it should be noted that compared to the previously approved project, the proposed Project would result in increased energy demand, the Project would not engage in wasteful or inefficient uses of energy and aims to achieve energy conservations goals within the State of California. Therefore, energy impacts associated with the proposed Project would be less than significant and mitigation is not required, which would be consistent with the conclusion of the 2017 Addendum to the Mesa Verde Estates Specific Plan EIR.

5.2 ENERGY IMPACT 2

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

The Project's consistency with the applicable state and local plans is discussed below.

CONSISTENCY WITH ISTEA

Transportation and access to the Project site is provided by the local and regional roadway systems. The Project would not interfere with, nor otherwise obstruct intermodal transportation plans or projects that may be realized pursuant to the ISTEA because SCAG is not planning for intermodal facilities on or through the Project site.

CONSISTENCY WITH TEA-21

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access, acts to reduce vehicle miles traveled, takes advantage of existing infrastructure systems, and promotes land use compatibilities through collocation of similar uses. The Project supports the strong planning processes emphasized under TEA-21. The Project is therefore consistent with, and would not otherwise interfere with, nor obstruct implementation of TEA-21.

CONSISTENCY WITH IEPR

Electricity would be provided to the Project by SCE. SCE's *Clean Power and Electrification Pathway* (CPEP) white paper builds on existing state programs and policies. As such, the Project is consistent with, and would not otherwise interfere with, nor obstruct implementation the goals presented in the 2023 IEPR.

Additionally, the Project will comply with the applicable Title 24 standards which would ensure that the Project energy demands would not be inefficient, wasteful, or otherwise unnecessary. As such, development of the proposed Project would support the goals presented in the 2023 IEPR.

CONSISTENCY WITH STATE OF CALIFORNIA ENERGY PLAN

The Project site is located along major transportation corridors with proximate access to the Interstate freeway system. The site selected for the Project facilitates access and takes advantage of existing infrastructure systems. The Project therefore supports urban design and planning processes identified under the State of California Energy Plan, is consistent with, and would not otherwise interfere with or obstruct, implementation of the State of California Energy Plan.

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 energy associated with the proposed Project would be reduced further than reductions taken in this analysis.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 6, ENERGY EFFICIENCY STANDARDS

The 2022 version of Title 24 was adopted by the CEC and became effective on January 1, 2023. The proposed Project would be required to comply with the Title 24 standards in place at the time plan check submittals are made. Therefore, the Project is would not result in a significant impact on energy resources (34). The proposed Project would be subject to Title 24 standards.

CONSISTENCY WITH CALIFORNIA CODE TITLE 24, PART 11, CALGREEN

As previously stated, CCR, Title 24, Part 11: CALGreen is a comprehensive and uniform regulatory code for all residential, commercial, and school buildings that went in effect on January 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 were published on July 1, 2022, and became effective on January 1, 2023. The Project would be required to comply with the applicable standards in place at the time plan check submittals are made.

CONSISTENCY WITH AB 1493

AB 1493 is not applicable to the Project as it is a statewide measure establishing vehicle emissions standards. No feature of the Project would interfere with implementation of the requirements under AB 1493.

CONSISTENCY WITH RPS

California's RPS is not applicable to the Project as it is a statewide measure that establishes a renewable energy mix. No feature of the Project would interfere with implementation of the requirements under RPS.

CONSISTENCY WITH SB 350

The proposed Project would use energy from SCE, which have committed to diversify their portfolio of energy sources by increasing energy from wind and solar sources. No feature of the Project would interfere with implementation of SB 350. Additionally, the Project would be designed and constructed to implement the energy efficiency measures for new industrial developments and would include several measures designed to reduce energy consumption.

As shown above, the Project would not conflict with any of the state or local plans. As such, a less than significant impact is expected.

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7 CERTIFICATIONS

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Mesa Verde Specific Plan. The information contained in this energy analysis 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.

Haseeb Qureshi
Associate Principal
Urban Crossroads, Inc.
hqureshi@urbanxroads.com

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
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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS

15218 Mesa Verde Ph1 Construction Detailed Report

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3.8. Building Construction (2027) - Mitigated

3.9. Building Construction (2028) - Unmitigated

3.10. Building Construction (2028) - Mitigated

3.11. Paving (2028) - Unmitigated

3.12. Paving (2028) - Mitigated

3.13. Paving (2029) - Unmitigated

3.14. Paving (2029) - Mitigated

3.15. Architectural Coating (2029) - Unmitigated

3.16. Architectural Coating (2029) - Mitigated

3.17. Architectural Coating (2030) - Unmitigated

3.18. Architectural Coating (2030) - Mitigated

4. Operations Emissions Details

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	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

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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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4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	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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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 4.2:

CALEEMOD PROJECT OPERATIONS EMISSIONS MODEL OUTPUTS

15218 Mesa Verde Ph1 Ops HCCS Detailed Report

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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.

15218 Mesa Verde Ph2 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 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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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.

15218 Mesa Verde Ph5 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 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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APPENDIX 4.3:

CALEEMOD CURRENTLY ADOPTED PROJECT OPERATIONS EMISSIONS MODEL OUTPUTS

15218 - Mesa Verde (Currently Approved Operations) 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 (Currently Approved Operations)
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	34.000039, -117.081588
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	2022.1.1.24

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	3,292	Dwelling Unit	1,069	6,419,400	38,558,725	—	10,633	—

Apartments Low Rise	358	Dwelling Unit	22.4	379,480	0.00	—	1,156	—
City Park	48.0	Acre	48.0	0.00	2,090,880	2,090,880	—	—
Health Club	8.00	1000sqft	0.18	8,000	0.00	—	—	—
Elementary School	1,200	Student	2.30	100,324	0.00	0.00	—	—
Regional Shopping Center	250	1000sqft	5.74	250,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	309	296	160	958	2.53	8.45	207	216	8.37	52.5	60.9	2,380	345,153	347,533	255	10.3	98.3	357,075
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	284	272	163	646	2.40	8.33	207	216	8.28	52.5	60.8	2,380	332,360	334,740	255	10.6	46.2	344,322
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	280	271	100	722	1.85	3.76	179	183	3.69	45.4	49.1	2,380	240,600	242,980	253	9.47	65.1	252,194
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	51.0	49.4	18.3	132	0.34	0.69	32.7	33.4	0.67	8.29	8.97	394	39,834	40,228	41.9	1.57	10.8	41,754

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	109	103	65.4	694	1.93	0.84	207	208	0.79	52.5	53.3	—	196,934	196,934	7.24	8.83	53.5	199,801
Area	196	191	62.6	249	0.40	5.02	—	5.02	4.99	—	4.99	0.00	77,472	77,472	1.47	0.15	—	77,553
Energy	3.76	1.88	32.2	14.2	0.21	2.60	—	2.60	2.60	—	2.60	—	66,805	66,805	6.90	0.48	—	67,120
Water	—	—	—	—	—	—	—	—	—	—	—	326	3,941	4,268	34.0	0.86	—	5,372
Waste	—	—	—	—	—	—	—	—	—	—	—	2,053	0.00	2,053	205	0.00	—	7,184
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8
Total	309	296	160	958	2.53	8.45	207	216	8.37	52.5	60.9	2,380	345,153	347,533	255	10.3	98.3	357,075
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	106	99.4	70.2	607	1.81	0.84	207	208	0.79	52.5	53.3	—	184,760	184,760	7.64	9.12	1.39	187,669
Area	174	170	60.5	25.8	0.39	4.90	—	4.90	4.90	—	4.90	0.00	76,854	76,854	1.45	0.14	—	76,933
Energy	3.76	1.88	32.2	14.2	0.21	2.60	—	2.60	2.60	—	2.60	—	66,805	66,805	6.90	0.48	—	67,120
Water	—	—	—	—	—	—	—	—	—	—	—	326	3,941	4,268	34.0	0.86	—	5,372
Waste	—	—	—	—	—	—	—	—	—	—	—	2,053	0.00	2,053	205	0.00	—	7,184
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8
Total	284	272	163	646	2.40	8.33	207	216	8.28	52.5	60.8	2,380	332,360	334,740	255	10.6	46.2	344,322
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	93.5	87.8	62.6	553	1.61	0.74	179	180	0.69	45.4	46.1	—	164,166	164,166	6.81	8.13	20.3	166,780
Area	182	181	5.55	155	0.03	0.42	—	0.42	0.40	—	0.40	0.00	5,687	5,687	0.12	0.01	—	5,694
Energy	3.76	1.88	32.2	14.2	0.21	2.60	—	2.60	2.60	—	2.60	—	66,805	66,805	6.90	0.48	—	67,120
Water	—	—	—	—	—	—	—	—	—	—	—	326	3,941	4,268	34.0	0.86	—	5,372

Waste	—	—	—	—	—	—	—	—	—	—	—	2,053	0.00	2,053	205	0.00	—	7,184
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8
Total	280	271	100	722	1.85	3.76	179	183	3.69	45.4	49.1	2,380	240,600	242,980	253	9.47	65.1	252,194
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.1	16.0	11.4	101	0.29	0.13	32.7	32.8	0.13	8.29	8.42	—	27,180	27,180	1.13	1.35	3.36	27,612
Area	33.3	33.1	1.01	28.3	0.01	0.08	—	0.08	0.07	—	0.07	0.00	942	942	0.02	< 0.005	—	943
Energy	0.69	0.34	5.88	2.59	0.04	0.47	—	0.47	0.47	—	0.47	—	11,060	11,060	1.14	0.08	—	11,112
Water	—	—	—	—	—	—	—	—	—	—	—	54.0	653	707	5.62	0.14	—	889
Waste	—	—	—	—	—	—	—	—	—	—	—	340	0.00	340	34.0	0.00	—	1,189
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.42	7.42
Total	51.0	49.4	18.3	132	0.34	0.69	32.7	33.4	0.67	8.29	8.97	394	39,834	40,228	41.9	1.57	10.8	41,754

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	62.2	58.8	35.9	369	1.00	0.44	107	107	0.41	27.0	27.4	—	101,853	101,853	3.99	4.74	27.5	103,394
Apartments Low Rise	6.76	6.39	3.90	40.1	0.11	0.05	11.6	11.6	0.04	2.94	2.98	—	11,076	11,076	0.43	0.52	2.99	11,244
City Park	11.2	10.4	7.40	84.6	0.25	0.11	27.0	27.2	0.10	6.86	6.96	—	25,417	25,417	0.81	1.05	6.98	25,758

Health Club	0.57	0.53	0.38	4.31	0.01	0.01	1.38	1.38	0.01	0.35	0.35	—	1,295	1,295	0.04	0.05	0.36	1,313
Elementary School	3.25	3.03	2.15	24.6	0.07	0.03	7.87	7.90	0.03	2.00	2.02	—	7,399	7,399	0.24	0.31	2.03	7,498
Regional Shopping Center	25.1	23.5	15.7	171	0.49	0.21	52.8	53.0	0.20	13.4	13.6	—	49,894	49,894	1.73	2.16	13.6	50,595
Total	109	103	65.4	694	1.93	0.84	207	208	0.79	52.5	53.3	—	196,934	196,934	7.24	8.83	53.5	199,801
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	60.3	56.9	38.5	326	0.94	0.44	107	107	0.41	27.0	27.4	—	95,598	95,598	4.23	4.90	0.71	97,164
Apartments Low Rise	6.56	6.19	4.19	35.4	0.10	0.05	11.6	11.6	0.04	2.94	2.98	—	10,396	10,396	0.46	0.53	0.08	10,566
City Park	10.8	10.1	7.95	72.2	0.23	0.11	27.0	27.2	0.10	6.86	6.96	—	23,824	23,824	0.85	1.09	0.18	24,169
Health Club	0.55	0.51	0.41	3.68	0.01	0.01	1.38	1.38	0.01	0.35	0.35	—	1,214	1,214	0.04	0.06	0.01	1,232
Elementary School	3.16	2.94	2.31	21.0	0.07	0.03	7.87	7.90	0.03	2.00	2.02	—	6,935	6,935	0.25	0.32	0.05	7,036
Regional Shopping Center	24.4	22.8	16.8	148	0.46	0.21	52.8	53.0	0.20	13.4	13.6	—	46,791	46,791	1.82	2.23	0.35	47,502
Total	106	99.4	70.2	607	1.81	0.84	207	208	0.79	52.5	53.3	—	184,760	184,760	7.64	9.12	1.39	187,669
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	10.6	10.0	6.89	59.8	0.17	0.08	18.7	18.8	0.07	4.74	4.82	—	15,619	15,619	0.69	0.80	1.92	15,876
Apartments Low Rise	0.90	0.85	0.59	5.09	0.01	0.01	1.59	1.60	0.01	0.40	0.41	—	1,328	1,328	0.06	0.07	0.16	1,350

City Park	1.03	0.95	0.77	7.14	0.02	0.01	2.55	2.56	0.01	0.65	0.66	—	2,091	2,091	0.07	0.10	0.26	2,122
Health Club	0.10	0.09	0.07	0.69	< 0.005	< 0.005	0.25	0.25	< 0.005	0.06	0.06	—	203	203	0.01	0.01	0.03	206
Elementary School	0.41	0.38	0.30	2.83	0.01	< 0.005	1.01	1.01	< 0.005	0.26	0.26	—	828	828	0.03	0.04	0.10	840
Regional Shopping Center	3.99	3.73	2.80	25.4	0.08	0.03	8.61	8.64	0.03	2.18	2.22	—	7,110	7,110	0.27	0.34	0.89	7,219
Total	17.1	16.0	11.4	101	0.29	0.13	32.7	32.8	0.13	8.29	8.42	—	27,180	27,180	1.13	1.35	3.36	27,612

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	21,967	21,967	2.78	0.34	—	22,137
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,751	1,751	0.22	0.03	—	1,765
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	54.7	54.7	0.01	< 0.005	—	55.1
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,743	1,743	0.22	0.03	—	1,757
Total	—	—	—	—	—	—	—	—	—	—	—	—	25,982	25,982	3.29	0.40	—	26,183
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	21,967	21,967	2.78	0.34	—	22,137
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	1,751	1,751	0.22	0.03	—	1,765
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	54.7	54.7	0.01	< 0.005	—	55.1
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	467	467	0.06	0.01	—	470
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	1,743	1,743	0.22	0.03	—	1,757
Total	—	—	—	—	—	—	—	—	—	—	—	—	25,982	25,982	3.29	0.40	—	26,183
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	3,637	3,637	0.46	0.06	—	3,665
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.04	< 0.005	—	292
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	9.06	9.06	< 0.005	< 0.005	—	9.13

Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	77.2	77.2	0.01	< 0.005	—	77.8
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	289	289	0.04	< 0.005	—	291
Total	—	—	—	—	—	—	—	—	—	—	—	—	4,302	4,302	0.54	0.07	—	4,335

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.46	1.73	29.6	12.6	0.19	2.39	—	2.39	2.39	—	2.39	—	37,522	37,522	3.32	0.07	—	37,626
Apartments Low Rise	0.18	0.09	1.53	0.65	0.01	0.12	—	0.12	0.12	—	0.12	—	1,947	1,947	0.17	< 0.005	—	1,952
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
Health Club	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Elementary School	0.07	0.04	0.65	0.54	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Regional Shopping Center	0.04	0.02	0.40	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	474	474	0.04	< 0.005	—	476
Total	3.76	1.88	32.2	14.2	0.21	2.60	—	2.60	2.60	—	2.60	—	40,823	40,823	3.61	0.08	—	40,936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Single Family Housing	3.46	1.73	29.6	12.6	0.19	2.39	—	2.39	2.39	—	2.39	—	37,522	37,522	3.32	0.07	—	37,626
Apartments Low Rise	0.18	0.09	1.53	0.65	0.01	0.12	—	0.12	0.12	—	0.12	—	1,947	1,947	0.17	< 0.005	—	1,952
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
Health Club	0.01	0.01	0.09	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	110	110	0.01	< 0.005	—	110
Elementary School	0.07	0.04	0.65	0.54	< 0.005	0.05	—	0.05	0.05	—	0.05	—	770	770	0.07	< 0.005	—	772
Regional Shopping Center	0.04	0.02	0.40	0.33	< 0.005	0.03	—	0.03	0.03	—	0.03	—	474	474	0.04	< 0.005	—	476
Total	3.76	1.88	32.2	14.2	0.21	2.60	—	2.60	2.60	—	2.60	—	40,823	40,823	3.61	0.08	—	40,936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.63	0.32	5.39	2.30	0.03	0.44	—	0.44	0.44	—	0.44	—	6,212	6,212	0.55	0.01	—	6,229
Apartments Low Rise	0.03	0.02	0.28	0.12	< 0.005	0.02	—	0.02	0.02	—	0.02	—	322	322	0.03	< 0.005	—	323
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
Health Club	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18.2	18.2	< 0.005	< 0.005	—	18.3
Elementary School	0.01	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128
Regional Shopping Center	0.01	< 0.005	0.07	0.06	< 0.005	0.01	—	0.01	0.01	—	0.01	—	78.6	78.6	0.01	< 0.005	—	78.8
Total	0.69	0.34	5.88	2.59	0.04	0.47	—	0.47	0.47	—	0.47	—	6,759	6,759	0.60	0.01	—	6,777

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	7.09	3.54	60.5	25.8	0.39	4.90	—	4.90	4.90	—	4.90	0.00	76,854	76,854	1.45	0.14	—	76,933
Consumer Products	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.6	12.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	21.8	20.5	2.04	224	0.01	0.12	—	0.12	0.09	—	0.09	—	618	618	0.03	0.01	—	620
Total	196	191	62.6	249	0.40	5.02	—	5.02	4.99	—	4.99	0.00	77,472	77,472	1.47	0.15	—	77,553
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	7.09	3.54	60.5	25.8	0.39	4.90	—	4.90	4.90	—	4.90	0.00	76,854	76,854	1.45	0.14	—	76,933
Consumer Products	154	154	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	12.6	12.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	174	170	60.5	25.8	0.39	4.90	—	4.90	4.90	—	4.90	0.00	76,854	76,854	1.45	0.14	—	76,933
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.09	0.04	0.76	0.32	< 0.005	0.06	—	0.06	0.06	—	0.06	0.00	872	872	0.02	< 0.005	—	872

Consum Products	28.2	28.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	2.29	2.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.72	2.57	0.26	28.0	< 0.005	0.02	—	0.02	0.01	—	0.01	—	70.1	70.1	< 0.005	< 0.005	—	70.3
Total	33.3	33.1	1.01	28.3	0.01	0.08	—	0.08	0.07	—	0.07	0.00	942	942	0.02	< 0.005	—	943

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	257	3,484	3,741	26.8	0.68	—	4,612
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	27.9	70.8	98.7	2.87	0.07	—	191
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	279	279	0.04	< 0.005	—	281
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.91	2.30	3.21	0.09	< 0.005	—	6.21
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	14.1	19.7	0.57	0.01	—	38.2

Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	35.5	90.1	126	3.65	0.09	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	326	3,941	4,268	34.0	0.86	—	5,372
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	257	3,484	3,741	26.8	0.68	—	4,612
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	27.9	70.8	98.7	2.87	0.07	—	191
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	279	279	0.04	< 0.005	—	281
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.91	2.30	3.21	0.09	< 0.005	—	6.21
Elementary School	—	—	—	—	—	—	—	—	—	—	—	5.57	14.1	19.7	0.57	0.01	—	38.2
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	35.5	90.1	126	3.65	0.09	—	243
Total	—	—	—	—	—	—	—	—	—	—	—	326	3,941	4,268	34.0	0.86	—	5,372
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	42.5	577	619	4.43	0.11	—	764
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	4.62	11.7	16.3	0.48	0.01	—	31.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	46.2	46.2	0.01	< 0.005	—	46.6
Health Club	—	—	—	—	—	—	—	—	—	—	—	0.15	0.38	0.53	0.02	< 0.005	—	1.03

Elementary School	—	—	—	—	—	—	—	—	—	—	—	0.92	2.34	3.27	0.09	< 0.005	—	6.32
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	5.87	14.9	20.8	0.60	0.01	—	40.2
Total	—	—	—	—	—	—	—	—	—	—	—	54.0	653	707	5.62	0.14	—	889

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,624	0.00	1,624	162	0.00	—	5,683
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	143	0.00	143	14.3	0.00	—	499
City Park	—	—	—	—	—	—	—	—	—	—	—	2.22	0.00	2.22	0.22	0.00	—	7.78
Health Club	—	—	—	—	—	—	—	—	—	—	—	24.6	0.00	24.6	2.46	0.00	—	86.0
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14.1	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	2,053	0.00	2,053	205	0.00	—	7,184

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	1,624	0.00	1,624	162	0.00	—	5,683
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	143	0.00	143	14.3	0.00	—	499
City Park	—	—	—	—	—	—	—	—	—	—	—	2.22	0.00	2.22	0.22	0.00	—	7.78
Health Club	—	—	—	—	—	—	—	—	—	—	—	24.6	0.00	24.6	2.46	0.00	—	86.0
Elementary School	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	11.8	0.00	—	413
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14.1	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	2,053	0.00	2,053	205	0.00	—	7,184
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	269	0.00	269	26.9	0.00	—	941
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	23.6	0.00	23.6	2.36	0.00	—	82.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.37	0.00	0.37	0.04	0.00	—	1.29
Health Club	—	—	—	—	—	—	—	—	—	—	—	4.07	0.00	4.07	0.41	0.00	—	14.2
Elementary School	—	—	—	—	—	—	—	—	—	—	—	19.5	0.00	19.5	1.95	0.00	—	68.4
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	23.4	0.00	23.4	2.34	0.00	—	81.9

Total	—	—	—	—	—	—	—	—	—	—	—	340	0.00	340	34.0	0.00	—	1,189

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.1	41.1
Apartments Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.43	2.43
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Elementary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.95	0.95
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	41.1	41.1

Apartme Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.43	2.43
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.29	0.29
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.95	0.95
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	44.8	44.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	6.81	6.81
Apartme nts Low Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.40	0.40
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Health Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Element ary School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Regional Shopping Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.16	0.16
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	7.42	7.42

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Single Family Housing	31,340	31,672	28,387	11,302,405	149,351	150,936	135,279	53,861,998
Apartments Low Rise	2,381	3,444	3,087	961,339	11,347	16,414	14,711	4,581,295
City Park	1,894	4,759	5,318	1,019,236	13,641	34,278	38,300	7,340,820
Health Club	271	271	271	98,915	1,952	1,952	1,952	712,413
Elementary School	1,548	0.00	0.00	403,586	11,149	0.00	0.00	2,906,736
Regional Shopping Center	12,320	11,530	5,275	4,088,261	74,723	69,932	31,994	24,796,128

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	3292
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

Apartments Low Rise	—
Wood Fireplaces	0
Gas Fireplaces	358
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
13767732	4,589,244	537,486	179,162	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	30,744,790	261	0.0330	0.0040	117,077,722

Apartments Low Rise	2,451,151	261	0.0330	0.0040	6,075,340
City Park	0.00	261	0.0330	0.0040	0.00
Health Club	76,553	261	0.0330	0.0040	343,603
Elementary School	652,916	261	0.0330	0.0040	2,401,800
Regional Shopping Center	2,439,599	261	0.0330	0.0040	1,480,543

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	133,898,067	747,237,330
Apartments Low Rise	14,561,211	0.00
City Park	0.00	73,671,975
Health Club	473,145	0.00
Elementary School	2,909,088	0.00
Regional Shopping Center	18,518,130	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	3,014	—
Apartments Low Rise	265	—
City Park	4.13	—
Health Club	45.6	—
Elementary School	219	—
Regional Shopping Center	263	—

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
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
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
Health Club	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Health Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
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

Regional Shopping Center	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.00	4.00	18.0
Regional Shopping Center	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.4	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	21.3	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 rates based on information provided in the Traffic analysis
Operations: Hearths	Rule 445
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

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APPENDIX 4.4:

EMFAC2021

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2026
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Gasoline	5.301713201	269.8155783	0.068469804	68.46980429	326183.3321	269.8155783	2063431.007	6.33	HHDT
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Diesel	15687.78827	1988453.103	317.4311809	317431.1809		1988453.103			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Electricity	181.0556624	20854.79688	0	0		20854.79688			
Riverside (SC)	2026	HHDT	Aggregate	Aggregate	Natural Gas	822.9858358	53853.29132	8.683681391	8683.681391		53853.29132			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Gasoline	470220.2179	20338993.18	657.9019755	657901.9755	670683.7214	20338993.18	22423581.77	33.43	LDA
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Diesel	1278.903087	45656.81459	1.04446634	1044.46634		45656.81459			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Electricity	27110.24505	1294343.513	0	0		1294343.513			
Riverside (SC)	2026	LDA	Aggregate	Aggregate	Plug-in Hybrid	15111.22646	744588.2646	11.73727955	11737.27955		744588.2646			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Gasoline	39097.73904	1475770.596	57.77065353	57770.65353	57860.51954	1475770.596	1487146.031	25.70	LDT1
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Diesel	13.62192751	246.3725383	0.009960174	9.960173709		246.3725383			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Electricity	113.2552136	5510.233656	0	0		5510.233656			
Riverside (SC)	2026	LDT1	Aggregate	Aggregate	Plug-in Hybrid	101.686721	5618.828531	0.079905828	79.90582849		5618.828531			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Gasoline	207104.2919	9189016.153	359.2463978	359246.3978	361967.9264	9189016.153	9414279.735	26.01	LDT2
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Diesel	682.5626595	31821.71127	0.923868936	923.8689364		31821.71127			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Electricity	2094.273367	72949.08151	0	0		72949.08151			
Riverside (SC)	2026	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2291.195555	120492.7893	1.797659677	1797.659677		120492.7893			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Gasoline	17398.34216	648258.6134	45.43230342	45432.30342	71378.10447	648258.6134	1205852.586	16.89	LHDT1
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Diesel	14868.32038	538771.2685	25.94580105	25945.80105		538771.2685			
Riverside (SC)	2026	LHDT1	Aggregate	Aggregate	Electricity	286.9935654	18822.70429	0	0		18822.70429			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Gasoline	2430.034218	87077.56554	6.894650038	6894.650038	21104.05262	87077.56554	337819.1023	16.01	LHDT2
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Diesel	6777.719033	246178.6334	14.20940258	14209.40258		246178.6334			
Riverside (SC)	2026	LHDT2	Aggregate	Aggregate	Electricity	73.06243174	4562.903373	0	0		4562.903373			
Riverside (SC)	2026	MCY	Aggregate	Aggregate	Gasoline	23937.33086	137142.5787	3.259850983	3259.850983	3259.850983	137142.5787	137142.5787	42.07	MCY
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Gasoline	157654.7501	6425602.492	314.7102388	314710.2388	319841.9429	6425602.492	6678197.896	20.88	MDV
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Diesel	2395.180805	96875.32958	3.958815392	3958.815392		96875.32958			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Electricity	2298.450518	79855.22944	0	0		79855.22944			
Riverside (SC)	2026	MDV	Aggregate	Aggregate	Plug-in Hybrid	1539.714974	75864.84529	1.172888712	1172.888712		75864.84529			
Riverside (SC)	2026	MH	Aggregate	Aggregate	Gasoline	4250.734566	36312.00617	7.425870006	7425.870006	9021.53348	36312.00617	52833.22222	5.86	MH
Riverside (SC)	2026	MH	Aggregate	Aggregate	Diesel	1981.725027	16521.21606	1.595663475	1595.663475		16521.21606			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Gasoline	1204.155669	49534.83957	9.263997368	9263.997368	74067.74937	49534.83957	646239.7348	8.72	MHDT
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Diesel	13571.64646	577213.7586	63.87135704	63871.35704		577213.7586			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Electricity	219.063018	11241.81607	0	0		11241.81607			
Riverside (SC)	2026	MHDT	Aggregate	Aggregate	Natural Gas	180.8134913	8249.320573	0.932394966	932.394966		8249.320573			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Gasoline	350.9276772	11597.74291	2.216471452	2216.471452	4375.818964	11597.74291	29375.18585	6.71	OBUS
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Diesel	230.0918445	15233.6578	1.930307181	1930.307181		15233.6578			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Electricity	3.398598414	222.0634986	0	0		222.0634986			
Riverside (SC)	2026	OBUS	Aggregate	Aggregate	Natural Gas	39.09901647	2321.721637	0.229040331	229.0403313		2321.721637			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Gasoline	428.6165302	16957.83533	1.930418011	1930.418011	5931.110106	16957.83533	38160.16985	6.43	SBUS
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Diesel	474.8674611	9627.108018	1.308586985	1308.586985		9627.108018			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Electricity	8.960082283	245.5300912	0	0		245.5300912			
Riverside (SC)	2026	SBUS	Aggregate	Aggregate	Natural Gas	472.4302591	11329.69641	2.69210511	2692.10511		11329.69641			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Gasoline	146.7792196	18580.60009	3.25315693	3253.15693	10939.25606	18580.60009	49832.17645	4.56	UBUS
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002675115	2.675114958		30.10971099			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Electricity	0.298524289	49.15190367	0	0		49.15190367			
Riverside (SC)	2026	UBUS	Aggregate	Aggregate	Natural Gas	252.9741581	31172.31474	7.683424013	7683.424013		31172.31474			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2027
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Gasoline	4.417589037	240.8696114	0.059741457	59.74145741	327553.1219	240.8696114	2112996.232	6.45	HHDT
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	16021.09962	2023648.424	318.6419902	318641.9902		2023648.424			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Electricity	291.1277388	33695.26576	0	0		33695.26576			
Riverside (SC)	2027	HHDT	Aggregate	Aggregate	Natural Gas	859.7365707	55411.6726	8.851390205	8851.390205		55411.6726			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	471235.7168	20354484.89	646.3182298	646318.2298	659332.1669	20354484.89	22605957.54	34.29	LDA
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Diesel	1176.545459	41562.34596	0.941772786	941.772786		41562.34596			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Electricity	30348.88532	1428770.722	0	0		1428770.722			
Riverside (SC)	2027	LDA	Aggregate	Aggregate	Plug-in Hybrid	16056.71591	781139.586	12.07216427	12072.16427		781139.586			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	38425.04641	1456606.871	56.00411545	56004.11545	56110.21758	1456606.871	1471112.371	26.22	LDT1
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Diesel	8.182997029	149.5948697	0.005861932	5.861931679		149.5948697			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Electricity	147.7776311	7209.101259	0	0		7209.101259			
Riverside (SC)	2027	LDT1	Aggregate	Aggregate	Plug-in Hybrid	130.963565	7146.803489	0.100240199	100.2401989		7146.803489			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	212339.9735	9414153.484	360.272054	360272.054	363211.8816	9414153.484	9671400.198	26.63	LDT2
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Diesel	713.6192887	33073.61643	0.942826085	942.8260853		33073.61643			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Electricity	2564.171691	88062.50525	0	0		88062.50525			
Riverside (SC)	2027	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2628.969244	136110.5925	1.997001514	1997.001514		136110.5925			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Gasoline	17212.0897	642894.8546	44.12357644	44123.57644	69419.14823	642894.8546	1201022.641	17.30	LHDT1
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Diesel	14633.12771	526713.4197	25.29557179	25295.57179		526713.4197			
Riverside (SC)	2027	LHDT1	Aggregate	Aggregate	Electricity	492.5286755	31414.36647	0	0		31414.36647			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Gasoline	2393.256129	85530.68603	6.657949773	6657.949773	20539.98243	85530.68603	334771.945	16.30	LHDT2
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Diesel	6722.419556	241624.1987	13.88203265	13882.03265		241624.1987			
Riverside (SC)	2027	LHDT2	Aggregate	Aggregate	Electricity	125.2869519	7617.060264	0	0		7617.060264			
Riverside (SC)	2027	MCY	Aggregate	Aggregate	Gasoline	23872.84416	135933.3741	3.223711537	3223.711537	3223.711537	135933.3741	135933.3741	42.17	MCY
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Gasoline	157494.1298	6421344.406	307.9749594	307974.9594	313073.5241	6421344.406	6696600.902	21.39	MDV
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Diesel	2354.829343	94400.81381	3.800171132	3800.171132		94400.81381			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Electricity	2779.433972	95116.63714	0	0		95116.63714			
Riverside (SC)	2027	MDV	Aggregate	Aggregate	Plug-in Hybrid	1757.393907	85739.04462	1.298393545	1298.393545		85739.04462			
Riverside (SC)	2027	MH	Aggregate	Aggregate	Gasoline	4014.402617	34124.53465	6.984241305	6984.241305	8533.923074	34124.53465	50163.52077	5.88	MH
Riverside (SC)	2027	MH	Aggregate	Aggregate	Diesel	1945.315043	16038.98612	1.549681769	1549.681769		16038.98612			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Gasoline	1187.040113	49189.22554	9.102215369	9102.215369	74108.25298	49189.22554	657629.6251	8.87	MHDT
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	13823.92114	580928.627	64.04015234	64040.15234		580928.627			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Electricity	371.8319942	18951.18768	0	0		18951.18768			
Riverside (SC)	2027	MHDT	Aggregate	Aggregate	Natural Gas	191.1860259	8560.584881	0.965885278	965.8852775		8560.584881			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Gasoline	338.9861834	11067.86494	2.084603884	2084.603884	4234.382771	11067.86494	29125.06177	6.88	OBUS
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Diesel	234.5197906	15307.11304	1.914675461	1914.675461		15307.11304			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Electricity	5.428935287	350.8664874	0	0		350.8664874			
Riverside (SC)	2027	OBUS	Aggregate	Aggregate	Natural Gas	40.94802157	2399.217305	0.235103425	235.1034253		2399.217305			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Gasoline	430.4295714	17027.29145	1.934694955	1934.694955	5925.808471	17027.29145	38269.32872	6.46	SBUS
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Diesel	464.1146803	9303.444431	1.262004708	1262.004708		9303.444431			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Electricity	14.63497518	401.3400131	0	0		401.3400131			
Riverside (SC)	2027	SBUS	Aggregate	Aggregate	Natural Gas	486.6196132	11537.25282	2.729108808	2729.108808		11537.25282			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Gasoline	147.0093126	18606.89257	3.253359958	3253.359958	10959.60845	18606.89257	49932.35462	4.56	UBUS
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002674823	2.674822746		30.10971099			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Electricity	0.589513765	89.99316283	0	0		89.99316283			
Riverside (SC)	2027	UBUS	Aggregate	Aggregate	Natural Gas	253.257931	31205.35917	7.703573673	7703.573673		31205.35917			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2028
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Gasoline	3.988581574	220.2375349	0.053426587	53.42658706	327968.5957	220.2375349	2164028.305	6.60	HHDT
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Diesel	16286.45202	2055799.739	318.9296757	318929.6757		2055799.739			
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Electricity	443.1127679	51388.26161	0	0		51388.26161			
Riverside (SC)	2028	HHDT	Aggregate	Aggregate	Natural Gas	889.8391393	56620.06678	8.985493411	8985.493411		56620.06678			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	472360.9133	20372156.29	634.9783189	634978.3189	648196.1926	20372156.29	22779784.76	35.14	LDA
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Diesel	1078.826078	37726.31375	0.844929589	844.9295888		37726.31375			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Electricity	33534.15965	1556851.62	0	0		1556851.62			
Riverside (SC)	2028	LDA	Aggregate	Aggregate	Plug-in Hybrid	16928.42831	813050.5364	12.37294411	12372.94411		813050.5364			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Gasoline	37855.87026	1440444.902	54.36871858	54368.71858	54496.07482	1440444.902	1458584.787	26.76	LDT1
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Diesel	6.076587483	111.1215276	0.004270552	4.270551517		111.1215276			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Electricity	188.4728547	9182.136055	0	0		9182.136055			
Riverside (SC)	2028	LDT1	Aggregate	Aggregate	Plug-in Hybrid	164.1063254	8846.627488	0.123085684	123.0856837		8846.627488			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Gasoline	217588.1473	9627227.084	361.0416912	361041.6912	364204.6139	9627227.084	9917690.621	27.23	LDT2
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Diesel	743.8336965	34234.83166	0.959155323	959.1553231		34234.83166			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Electricity	3077.663905	104270.8577	0	0		104270.8577			
Riverside (SC)	2028	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2979.785378	151957.8474	2.203767446	2203.767446		151957.8474			
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Gasoline	17013.08285	635719.8804	42.78386012	42783.86012	67372.46896	635719.8804	1197558.473	17.78	LHDT1
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Diesel	14375.59914	513629.3418	24.58860884	24588.60884		513629.3418			
Riverside (SC)	2028	LHDT1	Aggregate	Aggregate	Electricity	775.5486666	48209.25082	0	0		48209.25082			
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Gasoline	2353.812331	83781.03596	6.417908056	6417.908056	19945.38855	83781.03596	332098.5234	16.65	LHDT2
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Diesel	6657.214497	236631.625	13.52748049	13527.48049		236631.625			
Riverside (SC)	2028	LHDT2	Aggregate	Aggregate	Electricity	197.0476771	11685.86241	0	0		11685.86241			
Riverside (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	23825.11116	134879.6959	3.188684508	3188.684508	3188.684508	134879.6959	134879.6959	42.30	MCY
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	157471.3828	6419753.084	301.5064704	301506.4704	306577.6338	6419753.084	6718020.856	21.91	MDV
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Diesel	2313.319617	92055.03155	3.64472254	3644.72254		92055.03155			
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Electricity	3280.614214	110611.1646	0	0		110611.1646			
Riverside (SC)	2028	MDV	Aggregate	Aggregate	Plug-in Hybrid	1979.988786	95601.57573	1.426440918	1426.440918		95601.57573			
Riverside (SC)	2028	MH	Aggregate	Aggregate	Gasoline	3792.760048	32136.12659	6.576552774	6576.552774	8080.877903	32136.12659	47700.74841	5.90	MH
Riverside (SC)	2028	MH	Aggregate	Aggregate	Diesel	1905.838717	15564.62182	1.50432513	1504.32513		15564.62182			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Gasoline	1167.514336	48564.31923	8.892465984	8892.465984	73657.11404	48564.31923	669292.9757	9.09	MHDT
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Diesel	14002.28475	581224.0545	63.77307861	63773.07861		581224.0545			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Electricity	604.2282857	30714.98313	0	0		30714.98313			
Riverside (SC)	2028	MHDT	Aggregate	Aggregate	Natural Gas	199.9675247	8789.618879	0.991569449	991.5694486		8789.618879			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Gasoline	327.7078639	10548.10232	1.966652018	1966.652018	4110.66287	10548.10232	28947.37014	7.04	OBUS
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Diesel	238.556013	15389.24479	1.90528198	1905.28198		15389.24479			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Electricity	8.51445928	545.8268781	0	0		545.8268781			
Riverside (SC)	2028	OBUS	Aggregate	Aggregate	Natural Gas	42.59688326	2464.196156	0.238728872	238.7288719		2464.196156			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Gasoline	431.0753654	17042.56634	1.933025708	1933.025708	5903.130779	17042.56634	38344.63518	6.50	SBUS
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Diesel	451.0585439	8951.328084	1.211406554	1211.406554		8951.328084			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Electricity	23.22081025	641.5412948	0	0		641.5412948			
Riverside (SC)	2028	SBUS	Aggregate	Aggregate	Natural Gas	499.8225406	11709.19947	2.758698517	2758.698517		11709.19947			
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Gasoline	132.0967345	16779.39189	2.792318822	2792.318822	8165.960945	16779.39189	50032.53279	6.13	UBUS
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Electricity	56.86515729	8885.94529	0	0		8885.94529			
Riverside (SC)	2028	UBUS	Aggregate	Aggregate	Natural Gas	213.0114547	24367.19561	5.373642123	5373.642123		24367.19561			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2029
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calen	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2029	HHDT	Aggregate	Aggregate	Gasoline	3.521277863	202.1541818	0.047864085	47.86408531	327855.0315	202.1541818	2216346.975	6.76	HHDT
Riverside (SC)	2029	HHDT	Aggregate	Aggregate	Diesel	16479.13359	2084622.808	318.7190658	318719.0658		2084622.808			
Riverside (SC)	2029	HHDT	Aggregate	Aggregate	Electricity	637.9174448	73895.81481	0	0		73895.81481			
Riverside (SC)	2029	HHDT	Aggregate	Aggregate	Natural Gas	915.0240056	57626.19745	9.088101593	9088.101593		57626.19745			
Riverside (SC)	2029	LDA	Aggregate	Aggregate	Gasoline	473378.0047	20392511.5	624.7125333	624712.5333	638084.2032	20392511.5	22946897.19	35.96	LDA
Riverside (SC)	2029	LDA	Aggregate	Aggregate	Diesel	984.2848703	34105.5256	0.754932677	754.9326775		34105.5256			
Riverside (SC)	2029	LDA	Aggregate	Aggregate	Electricity	36672.49583	1679783.773	0	0		1679783.773			
Riverside (SC)	2029	LDA	Aggregate	Aggregate	Plug-in Hybr	17717.23467	840496.3916	12.61673718	12616.73718		840496.3916			
Riverside (SC)	2029	LDT1	Aggregate	Aggregate	Gasoline	37329.77745	1426016.935	52.87714767	52877.14767	53027.95314	1426016.935	1448247.044	27.31	LDT1
Riverside (SC)	2029	LDT1	Aggregate	Aggregate	Diesel	3.427515898	64.77720353	0.00247199	2.471989788		64.77720353			
Riverside (SC)	2029	LDT1	Aggregate	Aggregate	Electricity	235.7701723	11443.05065	0	0		11443.05065			
Riverside (SC)	2029	LDT1	Aggregate	Aggregate	Plug-in Hybr	201.238108	10722.28093	0.148333477	148.3334774		10722.28093			
Riverside (SC)	2029	LDT2	Aggregate	Aggregate	Gasoline	222709.7741	9827243.731	361.9096119	361909.6119	365296.4868	9827243.731	10152026.43	27.79	LDT2
Riverside (SC)	2029	LDT2	Aggregate	Aggregate	Diesel	772.0405947	35298.39045	0.973666708	973.6667079		35298.39045			
Riverside (SC)	2029	LDT2	Aggregate	Aggregate	Electricity	3632.690453	121501.2546	0	0		121501.2546			
Riverside (SC)	2029	LDT2	Aggregate	Aggregate	Plug-in Hybr	3341.592403	167983.0531	2.413208238	2413.208238		167983.0531			
Riverside (SC)	2029	LHDT1	Aggregate	Aggregate	Gasoline	16795.68965	626817.5943	41.44446333	41444.46333	65307.90475	626817.5943	1195682.643	18.31	LHDT1
Riverside (SC)	2029	LHDT1	Aggregate	Aggregate	Diesel	14100.4336	499931.2802	23.86344142	23863.44142		499931.2802			
Riverside (SC)	2029	LHDT1	Aggregate	Aggregate	Electricity	1136.869424	68933.76814	0	0		68933.76814			
Riverside (SC)	2029	LHDT2	Aggregate	Aggregate	Gasoline	2311.360939	81890.43268	6.180349829	6180.349829	19337.70933	81890.43268	329846.7853	17.06	LHDT2
Riverside (SC)	2029	LHDT2	Aggregate	Aggregate	Diesel	6579.945196	231251.2981	13.1573595	13157.3595		231251.2981			
Riverside (SC)	2029	LHDT2	Aggregate	Aggregate	Electricity	288.5072961	16705.05449	0	0		16705.05449			
Riverside (SC)	2029	MCY	Aggregate	Aggregate	Gasoline	23785.59397	133992.5339	3.158220541	3158.220541	3158.220541	133992.5339	133992.5339	42.43	MCY
Riverside (SC)	2029	MDV	Aggregate	Aggregate	Gasoline	157566.4176	6422134.222	295.7356399	295735.6399	300787.0982	6422134.222	6743594.1	22.42	MDV
Riverside (SC)	2029	MDV	Aggregate	Aggregate	Diesel	2270.052008	89793.21905	3.497190206	3497.190206		89793.21905			
Riverside (SC)	2029	MDV	Aggregate	Aggregate	Electricity	3798.420259	126244.9533	0	0		126244.9533			
Riverside (SC)	2029	MDV	Aggregate	Aggregate	Plug-in Hybr	2206.461916	105421.7052	1.554268068	1554.268068		105421.7052			
Riverside (SC)	2029	MH	Aggregate	Aggregate	Gasoline	3580.024094	30304.87469	6.200886309	6200.886309	7662.851529	30304.87469	45426.06573	5.93	MH
Riverside (SC)	2029	MH	Aggregate	Aggregate	Diesel	1866.96934	15121.19104	1.46196522	1461.96522		15121.19104			
Riverside (SC)	2029	MHDT	Aggregate	Aggregate	Gasoline	1146.504322	47682.88265	8.647839827	8647.839827	72734.49734	47682.88265	681256.8228	9.37	MHDT
Riverside (SC)	2029	MHDT	Aggregate	Aggregate	Diesel	14090.24645	577637.3476	63.07599507	63075.99507		577637.3476			
Riverside (SC)	2029	MHDT	Aggregate	Aggregate	Electricity	926.590875	46978.62065	0	0		46978.62065			
Riverside (SC)	2029	MHDT	Aggregate	Aggregate	Natural Gas	207.3526487	8957.971936	1.010662446	1010.662446		8957.971936			
Riverside (SC)	2029	OBUS	Aggregate	Aggregate	Gasoline	317.2534562	10029.82553	1.852692949	1852.692949	3991.548998	10029.82553	28835.05682	7.22	OBUS
Riverside (SC)	2029	OBUS	Aggregate	Aggregate	Diesel	241.8508995	15476.67687	1.896857086	1896.857086		15476.67687			
Riverside (SC)	2029	OBUS	Aggregate	Aggregate	Electricity	12.69375286	806.996631	0	0		806.996631			
Riverside (SC)	2029	OBUS	Aggregate	Aggregate	Natural Gas	44.00215554	2521.557795	0.241998962	241.998962		2521.557795			
Riverside (SC)	2029	SBUS	Aggregate	Aggregate	Gasoline	430.58641	17011.24293	1.926242584	1926.242584	5861.029094	17011.24293	38393.56531	6.55	SBUS
Riverside (SC)	2029	SBUS	Aggregate	Aggregate	Diesel	434.8515342	8570.48699	1.156596835	1156.596835		8570.48699			
Riverside (SC)	2029	SBUS	Aggregate	Aggregate	Electricity	35.16581802	977.8677573	0	0		977.8677573			
Riverside (SC)	2029	SBUS	Aggregate	Aggregate	Natural Gas	511.5178287	11833.96763	2.778189675	2778.189675		11833.96763			
Riverside (SC)	2029	UBUS	Aggregate	Aggregate	Gasoline	132.3115365	16803.80623	2.778191525	2778.191525	7136.520824	16803.80623	50132.71096	7.02	UBUS
Riverside (SC)	2029	UBUS	Aggregate	Aggregate	Electricity	96.0161752	13354.27709	0	0		13354.27709			
Riverside (SC)	2029	UBUS	Aggregate	Aggregate	Natural Gas	174.4504903	19974.62765	4.358329299	4358.329299		19974.62765			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2030
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2030	HHDT	Aggregate	Aggregate	Gasoline	2.967586625	184.9821766	0.04261741	42.61740995	327356.1054	184.9821766	2269980.868	6.93	HHDT
Riverside (SC)	2030	HHDT	Aggregate	Aggregate	Diesel	16609.15097	2110490.455	318.1454004	318145.4004		2110490.455			
Riverside (SC)	2030	HHDT	Aggregate	Aggregate	Electricity	870.8442943	100841.5654	0	0		100841.5654			
Riverside (SC)	2030	HHDT	Aggregate	Aggregate	Natural Gas	935.475286	58463.86618	9.168087609	9168.087609		58463.86618			
Riverside (SC)	2030	LDA	Aggregate	Aggregate	Gasoline	474280.5182	20414204.08	615.4867067	615486.7067	628971.2014	20414204.08	23109339.07	36.74	LDA
Riverside (SC)	2030	LDA	Aggregate	Aggregate	Diesel	890.6615466	30736.13468	0.671375993	671.3759928		30736.13468			
Riverside (SC)	2030	LDA	Aggregate	Aggregate	Electricity	39805.71254	1800386.56	0	0		1800386.56			
Riverside (SC)	2030	LDA	Aggregate	Aggregate	Plug-in Hybrid	18428.80939	864012.3006	12.81311873	12813.11873		864012.3006			
Riverside (SC)	2030	LDT1	Aggregate	Aggregate	Gasoline	36835.1094	1413210.421	51.52041283	51520.41283	51697.11975	1413210.421	1440036.009	27.86	LDT1
Riverside (SC)	2030	LDT1	Aggregate	Aggregate	Diesel	0.611897759	16.8918368	0.000614079	0.614079347		16.8918368			
Riverside (SC)	2030	LDT1	Aggregate	Aggregate	Electricity	290.4750144	14027.544	0	0		14027.544			
Riverside (SC)	2030	LDT1	Aggregate	Aggregate	Plug-in Hybrid	242.566466	12781.15236	0.176092845	176.0928452		12781.15236			
Riverside (SC)	2030	LDT2	Aggregate	Aggregate	Gasoline	227626.5815	10012658.43	362.780674	362780.674	366392.7777	10012658.43	10372991.69	28.31	LDT2
Riverside (SC)	2030	LDT2	Aggregate	Aggregate	Diesel	798.9568229	36277.39289	0.986889074	986.8890743		36277.39289			
Riverside (SC)	2030	LDT2	Aggregate	Aggregate	Electricity	4232.749267	139883.643	0	0		139883.643			
Riverside (SC)	2030	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3713.158646	184172.2252	2.625214705	2625.214705		184172.2252			
Riverside (SC)	2030	LHDT1	Aggregate	Aggregate	Gasoline	16556.1228	616387.0613	40.10923239	40109.23239	63229.22004	616387.0613	1195437.037	18.91	LHDT1
Riverside (SC)	2030	LHDT1	Aggregate	Aggregate	Diesel	13807.4056	485670.076	23.11998765	23119.98765		485670.076			
Riverside (SC)	2030	LHDT1	Aggregate	Aggregate	Electricity	1577.187134	93379.90013	0	0		93379.90013			
Riverside (SC)	2030	LHDT2	Aggregate	Aggregate	Gasoline	2266.819498	79871.54962	5.946314153	5946.314153	18716.87413	79871.54962	327963.7374	17.52	LHDT2
Riverside (SC)	2030	LHDT2	Aggregate	Aggregate	Diesel	6488.812836	225468.8622	12.77055997	12770.55997		225468.8622			
Riverside (SC)	2030	LHDT2	Aggregate	Aggregate	Electricity	399.7581132	22623.32567	0	0		22623.32567			
Riverside (SC)	2030	MCY	Aggregate	Aggregate	Gasoline	23721.90098	133239.4177	3.130648485	3130.648485	3130.648485	133239.4177	133239.4177	42.56	MCY
Riverside (SC)	2030	MDV	Aggregate	Aggregate	Gasoline	157782.5167	6428601.892	290.6635588	290663.5588	295701.0558	6428601.892	6773551.149	22.91	MDV
Riverside (SC)	2030	MDV	Aggregate	Aggregate	Diesel	2224.019723	87601.07267	3.355974306	3355.974306		87601.07267			
Riverside (SC)	2030	MDV	Aggregate	Aggregate	Electricity	4336.062239	142162.4125	0	0		142162.4125			
Riverside (SC)	2030	MDV	Aggregate	Aggregate	Plug-in Hybrid	2435.718824	115185.7716	1.681522687	1681.522687		115185.7716			
Riverside (SC)	2030	MH	Aggregate	Aggregate	Gasoline	3385.980841	28690.98	5.869920064	5869.920064	7292.591689	28690.98	43400.79558	5.95	MH
Riverside (SC)	2030	MH	Aggregate	Aggregate	Diesel	1828.618507	14709.81558	1.422671624	1422.671624		14709.81558			
Riverside (SC)	2030	MHDT	Aggregate	Aggregate	Gasoline	1121.808481	46503.91073	8.36068651	8360.68651	71337.70588	46503.91073	693470.0948	9.72	MHDT
Riverside (SC)	2030	MHDT	Aggregate	Aggregate	Diesel	14086.50638	570229.549	61.9542813	61954.2813		570229.549			
Riverside (SC)	2030	MHDT	Aggregate	Aggregate	Electricity	1337.301971	67676.74715	0	0		67676.74715			
Riverside (SC)	2030	MHDT	Aggregate	Aggregate	Natural Gas	213.50876	9059.887916	1.022738066	1022.738066		9059.887916			
Riverside (SC)	2030	OBUS	Aggregate	Aggregate	Gasoline	306.52092	9495.025729	1.7388773	1738.8773	3875.439871	9495.025729	28765.68115	7.42	OBUS
Riverside (SC)	2030	OBUS	Aggregate	Aggregate	Diesel	243.9224056	15566.83183	1.891571171	1891.571171		15566.83183			
Riverside (SC)	2030	OBUS	Aggregate	Aggregate	Electricity	17.93419592	1129.736842	0	0		1129.736842			
Riverside (SC)	2030	OBUS	Aggregate	Aggregate	Natural Gas	45.17375328	2574.086746	0.2449914	244.9913999		2574.086746			
Riverside (SC)	2030	SBUS	Aggregate	Aggregate	Gasoline	428.8569519	16930.28687	1.913943465	1913.943465	5797.621978	16930.28687	38413.1774	6.63	SBUS
Riverside (SC)	2030	SBUS	Aggregate	Aggregate	Diesel	415.619616	8151.538011	1.096266506	1096.266506		8151.538011			
Riverside (SC)	2030	SBUS	Aggregate	Aggregate	Electricity	50.63292432	1419.299274	0	0		1419.299274			
Riverside (SC)	2030	SBUS	Aggregate	Aggregate	Natural Gas	521.7784396	11912.05324	2.787412007	2787.412007		11912.05324			
Riverside (SC)	2030	UBUS	Aggregate	Aggregate	Gasoline	109.2615591	11695.08832	1.495692129	1495.692129	5754.768279	11695.08832	50232.88913	8.73	UBUS
Riverside (SC)	2030	UBUS	Aggregate	Aggregate	Electricity	127.945819	19150.64654	0	0		19150.64654			
Riverside (SC)	2030	UBUS	Aggregate	Aggregate	Natural Gas	166.3756792	19387.15427	4.25907615	4259.07615		19387.15427			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2031
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2031	HHDT	Aggregate	Aggregate	Gasoline	2.48916581	171.4070601	0.038459081	38.459081	328036.5337	171.4070601	2335516.193	7.12	HHDT
Riverside (SC)	2031	HHDT	Aggregate	Aggregate	Diesel	16724.71055	2144031.604	318.7408687	318740.8687		2144031.604			
Riverside (SC)	2031	HHDT	Aggregate	Aggregate	Electricity	1138.07272	131954.434	0	0		131954.434			
Riverside (SC)	2031	HHDT	Aggregate	Aggregate	Natural Gas	952.7857829	59358.74842	9.257205903	9257.205903		59358.74842			
Riverside (SC)	2031	LDA	Aggregate	Aggregate	Gasoline	475225.9238	20443705.18	607.4275349	607427.5349	621004.0559	20443705.18	23269989.55	37.47	LDA
Riverside (SC)	2031	LDA	Aggregate	Aggregate	Diesel	816.7351562	27781.82698	0.599548591	599.548591		27781.82698			
Riverside (SC)	2031	LDA	Aggregate	Aggregate	Electricity	42840.66622	1913779.703	0	0		1913779.703			
Riverside (SC)	2031	LDA	Aggregate	Aggregate	Plug-in Hybrid	19077.8689	884722.8436	12.9769724	12976.9724		884722.8436			
Riverside (SC)	2031	LDT1	Aggregate	Aggregate	Gasoline	36393.31311	1402767.16	50.32230313	50322.30313	50525.65952	1402767.16	1434102.781	28.38	LDT1
Riverside (SC)	2031	LDT1	Aggregate	Aggregate	Diesel	0.211979968	10.44543878	0.000360061	0.360061		10.44543878			
Riverside (SC)	2031	LDT1	Aggregate	Aggregate	Electricity	345.6921885	16551.22913	0	0		16551.22913			
Riverside (SC)	2031	LDT1	Aggregate	Aggregate	Plug-in Hybrid	283.9521919	14773.94616	0.202996324	202.996324		14773.94616			
Riverside (SC)	2031	LDT2	Aggregate	Aggregate	Gasoline	232317.5882	10185996.37	363.6801664	363680.1664	367505.1522	10185996.37	10580320.81	28.79	LDT2
Riverside (SC)	2031	LDT2	Aggregate	Aggregate	Diesel	823.8668585	37181.27206	0.998757039	998.757039		37181.27206			
Riverside (SC)	2031	LDT2	Aggregate	Aggregate	Electricity	4830.426119	157615.9472	0	0		157615.9472			
Riverside (SC)	2031	LDT2	Aggregate	Aggregate	Plug-in Hybrid	4076.458962	199527.2261	2.826228782	2826.228782		199527.2261			
Riverside (SC)	2031	LHDT1	Aggregate	Aggregate	Gasoline	16297.17001	604347.8207	38.77214572	38772.14572	61129.84993	604347.8207	1196540.607	19.57	LHDT1
Riverside (SC)	2031	LHDT1	Aggregate	Aggregate	Diesel	13497.7625	470845.729	22.35770421	22357.70421		470845.729			
Riverside (SC)	2031	LHDT1	Aggregate	Aggregate	Electricity	2096.426015	121347.0574	0	0		121347.0574			
Riverside (SC)	2031	LHDT2	Aggregate	Aggregate	Gasoline	2216.421711	77657.98602	5.707542962	5707.542962	18080.36752	77657.98602	326431.3172	18.05	LHDT2
Riverside (SC)	2031	LHDT2	Aggregate	Aggregate	Diesel	6386.054749	219380.1548	12.37282456	12372.82456		219380.1548			
Riverside (SC)	2031	LHDT2	Aggregate	Aggregate	Electricity	530.7529788	29393.17646	0	0		29393.17646			
Riverside (SC)	2031	MCY	Aggregate	Aggregate	Gasoline	23667.92903	132645.4201	3.107419777	3107.419777	3107.419777	132645.4201	132645.4201	42.69	MCY
Riverside (SC)	2031	MDV	Aggregate	Aggregate	Gasoline	158156.5114	6440344.973	286.327079	286327.079	291358.7958	6440344.973	6807881.388	23.37	MDV
Riverside (SC)	2031	MDV	Aggregate	Aggregate	Diesel	2181.847033	85628.44784	3.22804366	3228.04366		85628.44784			
Riverside (SC)	2031	MDV	Aggregate	Aggregate	Electricity	4866.821763	157376.8912	0	0		157376.8912			
Riverside (SC)	2031	MDV	Aggregate	Aggregate	Plug-in Hybrid	2661.275124	124531.0766	1.803673176	1803.673176		124531.0766			
Riverside (SC)	2031	MH	Aggregate	Aggregate	Gasoline	3206.786797	27245.05723	5.573895064	5573.895064	6960.006876	27245.05723	41571.55725	5.97	MH
Riverside (SC)	2031	MH	Aggregate	Aggregate	Diesel	1790.336803	14326.50003	1.386111812	1386.111812		14326.50003			
Riverside (SC)	2031	MHDT	Aggregate	Aggregate	Gasoline	1097.190431	45214.48258	8.063599923	8063.599923	69858.64056	45214.48258	709093.1749	10.15	MHDT
Riverside (SC)	2031	MHDT	Aggregate	Aggregate	Diesel	14043.6837	562372.9142	60.76353734	60763.53734		562372.9142			
Riverside (SC)	2031	MHDT	Aggregate	Aggregate	Electricity	1834.160656	92373.26504	0	0		92373.26504			
Riverside (SC)	2031	MHDT	Aggregate	Aggregate	Natural Gas	218.8141728	9132.513143	1.031503297	1031.503297		9132.513143			
Riverside (SC)	2031	OBUS	Aggregate	Aggregate	Gasoline	296.5676815	8991.104447	1.633605972	1633.605972	3770.577601	8991.104447	28750.05337	7.62	OBUS
Riverside (SC)	2031	OBUS	Aggregate	Aggregate	Diesel	244.9915574	15657.77578	1.889044197	1889.044197		15657.77578			
Riverside (SC)	2031	OBUS	Aggregate	Aggregate	Electricity	23.71649554	1476.770925	0	0		1476.770925			
Riverside (SC)	2031	OBUS	Aggregate	Aggregate	Natural Gas	46.31015393	2624.40221	0.247927432	247.927432		2624.40221			
Riverside (SC)	2031	SBUS	Aggregate	Aggregate	Gasoline	425.5710684	16787.21531	1.894447984	1894.447984	5712.859916	16787.21531	38381.18129	6.72	SBUS
Riverside (SC)	2031	SBUS	Aggregate	Aggregate	Diesel	393.5300101	7701.256301	1.031300139	1031.300139		7701.256301			
Riverside (SC)	2031	SBUS	Aggregate	Aggregate	Electricity	69.12686571	1943.496232	0	0		1943.496232			
Riverside (SC)	2031	SBUS	Aggregate	Aggregate	Natural Gas	530.5137287	11949.21345	2.787111793	2787.111793		11949.21345			
Riverside (SC)	2031	UBUS	Aggregate	Aggregate	Gasoline	109.2315927	11682.77024	1.489549095	1489.549095	4226.669804	11682.77024	50333.0673	11.91	UBUS
Riverside (SC)	2031	UBUS	Aggregate	Aggregate	Electricity	166.5606752	24503.94604	0	0		24503.94604			
Riverside (SC)	2031	UBUS	Aggregate	Aggregate	Natural Gas	128.5956449	14146.35103	2.737120709	2737.120709		14146.35103			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2032
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2032	HHDT	Aggregate	Aggregate	Gasoline	2.311031431	162.5646505	0.035691339	35.69133903	328701.1819	162.5646505	2403204.217	7.31	HHDT
Riverside (SC)	2032	HHDT	Aggregate	Aggregate	Diesel	16807.88876	2176774.253	319.3189477	319318.9477		2176774.253			
Riverside (SC)	2032	HHDT	Aggregate	Aggregate	Electricity	1427.1214	166026.9172	0	0		166026.9172			
Riverside (SC)	2032	HHDT	Aggregate	Aggregate	Natural Gas	967.5650369	60240.48314	9.346542801	9346.542801		60240.48314			
Riverside (SC)	2032	LDA	Aggregate	Aggregate	Gasoline	476310.8107	20483251.08	600.377694	600377.694	614032.0804	20483251.08	23429968.05	38.16	LDA
Riverside (SC)	2032	LDA	Aggregate	Aggregate	Diesel	737.2690005	25027.26596	0.531748286	531.7482856		25027.26596			
Riverside (SC)	2032	LDA	Aggregate	Aggregate	Electricity	45743.69725	2018684.853	0	0		2018684.853			
Riverside (SC)	2032	LDA	Aggregate	Aggregate	Plug-in Hybrid	19670.04624	903004.8551	13.12263807	13122.63807		903004.8551			
Riverside (SC)	2032	LDT1	Aggregate	Aggregate	Gasoline	36024.7298	1394524.955	49.26385772	49263.85772	49492.90727	1394524.955	1430147.127	28.90	LDT1
Riverside (SC)	2032	LDT1	Aggregate	Aggregate	Diesel	0.227951242	11.06600638	0.000379579	0.379579495		11.06600638			
Riverside (SC)	2032	LDT1	Aggregate	Aggregate	Electricity	400.1175378	18949.63717	0	0		18949.63717			
Riverside (SC)	2032	LDT1	Aggregate	Aggregate	Plug-in Hybrid	324.6409992	16661.46799	0.228669969	228.6699694		16661.46799			
Riverside (SC)	2032	LDT2	Aggregate	Aggregate	Gasoline	236806.5944	10348278.38	364.50396	364503.96	368528.4636	10348278.38	10774457.15	29.24	LDT2
Riverside (SC)	2032	LDT2	Aggregate	Aggregate	Diesel	846.8601087	37998.84042	1.008519119	1008.519119		37998.84042			
Riverside (SC)	2032	LDT2	Aggregate	Aggregate	Electricity	5414.118203	174309.6769	0	0		174309.6769			
Riverside (SC)	2032	LDT2	Aggregate	Aggregate	Plug-in Hybrid	4427.487734	213870.255	3.015984453	3015.984453		213870.255			
Riverside (SC)	2032	LHDT1	Aggregate	Aggregate	Gasoline	16032.27798	590864.4132	37.43620167	37436.20167	59009.52188	590864.4132	1199183.772	20.32	LHDT1
Riverside (SC)	2032	LHDT1	Aggregate	Aggregate	Diesel	13185.39156	455655.194	21.57332021	21573.32021		455655.194			
Riverside (SC)	2032	LHDT1	Aggregate	Aggregate	Electricity	2694.83744	152664.1644	0	0		152664.1644			
Riverside (SC)	2032	LHDT2	Aggregate	Aggregate	Gasoline	2161.811166	75267.05305	5.464273029	5464.273029	17425.48129	75267.05305	325211.7014	18.66	LHDT2
Riverside (SC)	2032	LHDT2	Aggregate	Aggregate	Diesel	6275.204869	212972.76	11.96120826	11961.20826		212972.76			
Riverside (SC)	2032	LHDT2	Aggregate	Aggregate	Electricity	681.4792065	36971.88838	0	0		36971.88838			
Riverside (SC)	2032	MCY	Aggregate	Aggregate	Gasoline	23642.72777	132191.5643	3.087819838	3087.819838	3087.819838	132191.5643	132191.5643	42.81	MCY
Riverside (SC)	2032	MDV	Aggregate	Aggregate	Gasoline	158655.8191	6456075.739	282.5352952	282535.2952	287560.7848	6456075.739	6844713.113	23.80	MDV
Riverside (SC)	2032	MDV	Aggregate	Aggregate	Diesel	2141.089808	83758.26717	3.106781506	3106.781506		83758.26717			
Riverside (SC)	2032	MDV	Aggregate	Aggregate	Electricity	5382.731591	171630.6822	0	0		171630.6822			
Riverside (SC)	2032	MDV	Aggregate	Aggregate	Plug-in Hybrid	2878.046609	133248.4243	1.918708086	1918.708086		133248.4243			
Riverside (SC)	2032	MH	Aggregate	Aggregate	Gasoline	3037.676571	25929.36897	5.303148372	5303.148372	6655.615613	25929.36897	39902.19193	6.00	MH
Riverside (SC)	2032	MH	Aggregate	Aggregate	Diesel	1752.730653	13972.82296	1.352467241	1352.467241		13972.82296			
Riverside (SC)	2032	MHDT	Aggregate	Aggregate	Gasoline	1071.482225	43838.41774	7.757428162	7757.428162	68210.15643	43838.41774	725084.2026	10.63	MHDT
Riverside (SC)	2032	MHDT	Aggregate	Aggregate	Diesel	13937.98265	553329.8408	59.41860451	59418.60451		553329.8408			
Riverside (SC)	2032	MHDT	Aggregate	Aggregate	Electricity	2369.074686	118763.5084	0	0		118763.5084			
Riverside (SC)	2032	MHDT	Aggregate	Aggregate	Natural Gas	222.1330138	9152.435653	1.03412376	1034.12376		9152.435653			
Riverside (SC)	2032	OBUS	Aggregate	Aggregate	Gasoline	286.3920084	8499.57219	1.532646381	1532.646381	3671.411963	8499.57219	28758.97387	7.83	OBUS
Riverside (SC)	2032	OBUS	Aggregate	Aggregate	Diesel	245.8003985	15752.48789	1.888337799	1888.337799		15752.48789			
Riverside (SC)	2032	OBUS	Aggregate	Aggregate	Electricity	29.89355949	1837.584793	0	0		1837.584793			
Riverside (SC)	2032	OBUS	Aggregate	Aggregate	Natural Gas	47.36148162	2669.329002	0.250427782	250.4277825		2669.329002			
Riverside (SC)	2032	SBUS	Aggregate	Aggregate	Gasoline	419.5905803	16535.74084	1.862079678	1862.079678	5602.570262	16535.74084	38250.81399	6.83	SBUS
Riverside (SC)	2032	SBUS	Aggregate	Aggregate	Diesel	369.3714992	7225.117647	0.962531665	962.5316654		7225.117647			
Riverside (SC)	2032	SBUS	Aggregate	Aggregate	Electricity	90.31632089	2540.75414	0	0		2540.75414			
Riverside (SC)	2032	SBUS	Aggregate	Aggregate	Natural Gas	537.7831504	11949.20137	2.777958919	2777.958919		11949.20137			
Riverside (SC)	2032	UBUS	Aggregate	Aggregate	Gasoline	109.314145	11686.34287	1.487332244	1487.332244	4189.208486	11686.34287	50433.24548	12.04	UBUS
Riverside (SC)	2032	UBUS	Aggregate	Aggregate	Electricity	177.5601711	24875.33301	0	0		24875.33301			
Riverside (SC)	2032	UBUS	Aggregate	Aggregate	Natural Gas	118.3184521	13871.56959	2.701876242	2701.876242		13871.56959			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2033
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2033	HHDT	Aggregate	Aggregate	Gasoline	2.074947174	153.1455767	0.032958508	32.95850806	330050.8748	153.1455767	2473113.992	7.49	HHDT
Riverside (SC)	2033	HHDT	Aggregate	Aggregate	Diesel	16873.21523	2210860.44	320.6055583	320605.5583		2210860.44			
Riverside (SC)	2033	HHDT	Aggregate	Aggregate	Electricity	1731.852486	201028.5776	0	0		201028.5776			
Riverside (SC)	2033	HHDT	Aggregate	Aggregate	Natural Gas	978.7087942	61071.82891	9.412357938	9412.357938		61071.82891			
Riverside (SC)	2033	LDA	Aggregate	Aggregate	Gasoline	477535.0832	20533098.64	595.416035	595416.035	609120.0242	20533098.64	23590044.67	38.73	LDA
Riverside (SC)	2033	LDA	Aggregate	Aggregate	Diesel	672.6091634	22663.76858	0.475341186	475.3411861		22663.76858			
Riverside (SC)	2033	LDA	Aggregate	Aggregate	Electricity	48500.40709	2115111.731	0	0		2115111.731			
Riverside (SC)	2033	LDA	Aggregate	Aggregate	Plug-in Hybrid	20207.51624	919170.5334	13.2286481	13228.6481		919170.5334			
Riverside (SC)	2033	LDT1	Aggregate	Aggregate	Gasoline	35709.86092	1387944.31	48.40982876	48409.82876	48662.87567	1387944.31	1427616.473	29.34	LDT1
Riverside (SC)	2033	LDT1	Aggregate	Aggregate	Diesel	0.24339208	11.64679858	0.00039856	0.398559922		11.64679858			
Riverside (SC)	2033	LDT1	Aggregate	Aggregate	Electricity	453.501641	21218.05288	0	0		21218.05288			
Riverside (SC)	2033	LDT1	Aggregate	Aggregate	Plug-in Hybrid	364.4619253	18442.46275	0.252648351	252.648351		18442.46275			
Riverside (SC)	2033	LDT2	Aggregate	Aggregate	Gasoline	241025.0582	10498974.62	365.9105199	365910.5199	370117.4711	10498974.62	10954794.42	29.60	LDT2
Riverside (SC)	2033	LDT2	Aggregate	Aggregate	Diesel	868.041533	38751.65814	1.019220384	1019.220384		38751.65814			
Riverside (SC)	2033	LDT2	Aggregate	Aggregate	Electricity	5979.791432	189917.185	0	0		189917.185			
Riverside (SC)	2033	LDT2	Aggregate	Aggregate	Plug-in Hybrid	4762.939423	227150.9643	3.187730835	3187.730835		227150.9643			
Riverside (SC)	2033	LHDT1	Aggregate	Aggregate	Gasoline	15738.76489	575704.497	36.08211754	36082.11754	56852.18859	575704.497	1202487.139	21.15	LHDT1
Riverside (SC)	2033	LHDT1	Aggregate	Aggregate	Diesel	12843.77746	439612.1954	20.77007105	20770.07105		439612.1954			
Riverside (SC)	2033	LHDT1	Aggregate	Aggregate	Electricity	3371.889876	187170.4465	0	0		187170.4465			
Riverside (SC)	2033	LHDT2	Aggregate	Aggregate	Gasoline	2104.763272	72753.61492	5.222541615	5222.541615	16770.561	72753.61492	324345.1351	19.34	LHDT2
Riverside (SC)	2033	LHDT2	Aggregate	Aggregate	Diesel	6154.532522	206270.098	11.54801939	11548.01939		206270.098			
Riverside (SC)	2033	LHDT2	Aggregate	Aggregate	Electricity	851.7887416	45321.42215	0	0		45321.42215			
Riverside (SC)	2033	MCY	Aggregate	Aggregate	Gasoline	23648.65264	131887.4612	3.077030051	3077.030051	3077.030051	131887.4612	131887.4612	42.86	MCY
Riverside (SC)	2033	MDV	Aggregate	Aggregate	Gasoline	159229.7757	6474744.776	279.7412226	279741.2226	284768.079	6474744.776	6883136.166	24.17	MDV
Riverside (SC)	2033	MDV	Aggregate	Aggregate	Diesel	2102.803455	82074.81462	3.003208893	3003.208893		82074.81462			
Riverside (SC)	2033	MDV	Aggregate	Aggregate	Electricity	5882.268069	184938.6302	0	0		184938.6302			
Riverside (SC)	2033	MDV	Aggregate	Aggregate	Plug-in Hybrid	3086.079066	141377.9455	2.023647534	2023.647534		141377.9455			
Riverside (SC)	2033	MH	Aggregate	Aggregate	Gasoline	2884.263854	24779.31808	5.076087823	5076.087823	6396.32056	24779.31808	38412.90411	6.01	MH
Riverside (SC)	2033	MH	Aggregate	Aggregate	Diesel	1713.62083	13633.58603	1.320232737	1320.232737		13633.58603			
Riverside (SC)	2033	MHDT	Aggregate	Aggregate	Gasoline	1043.663626	42359.04322	7.45421142	7454.21142	66529.2583	42359.04322	741420.447	11.14	MHDT
Riverside (SC)	2033	MHDT	Aggregate	Aggregate	Diesel	13768.99146	543004.9811	58.04405964	58044.05964		543004.9811			
Riverside (SC)	2033	MHDT	Aggregate	Aggregate	Electricity	2949.772894	146922.112	0	0		146922.112			
Riverside (SC)	2033	MHDT	Aggregate	Aggregate	Natural Gas	224.3955282	9134.310623	1.030987234	1030.987234		9134.310623			
Riverside (SC)	2033	OBUS	Aggregate	Aggregate	Gasoline	275.4816723	8019.241809	1.435573813	1435.573813	3576.793996	8019.241809	28791.02554	8.05	OBUS
Riverside (SC)	2033	OBUS	Aggregate	Aggregate	Diesel	246.0545533	15835.16469	1.887305823	1887.305823		15835.16469			
Riverside (SC)	2033	OBUS	Aggregate	Aggregate	Electricity	36.4810245	2212.5898	0	0		2212.5898			
Riverside (SC)	2033	OBUS	Aggregate	Aggregate	Natural Gas	48.39950243	2724.029237	0.253914361	253.9143612		2724.029237			
Riverside (SC)	2033	SBUS	Aggregate	Aggregate	Gasoline	410.3665764	16156.11333	1.814519412	1814.519412	5464.210884	16156.11333	38002.7109	6.95	SBUS
Riverside (SC)	2033	SBUS	Aggregate	Aggregate	Diesel	343.7124977	6735.243439	0.89175755	891.7575502		6735.243439			
Riverside (SC)	2033	SBUS	Aggregate	Aggregate	Electricity	114.1184461	3209.205722	0	0		3209.205722			
Riverside (SC)	2033	SBUS	Aggregate	Aggregate	Natural Gas	543.1381852	11902.14841	2.757933922	2757.933922		11902.14841			
Riverside (SC)	2033	UBUS	Aggregate	Aggregate	Gasoline	109.3966973	11689.91549	1.485106509	1485.106509	4172.025079	11689.91549	50533.42365	12.11	UBUS
Riverside (SC)	2033	UBUS	Aggregate	Aggregate	Electricity	184.5222614	25218.90572	0	0		25218.90572			
Riverside (SC)	2033	UBUS	Aggregate	Aggregate	Natural Gas	112.0786649	13624.60243	2.686918569	2686.918569		13624.60243			

Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2034
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2034	HHDT	Aggregate	Aggregate	Gasoline	1.882030679	144.8808288	0.030555681	30.55568086	331486.155	144.8808288	2545320.019	7.68	HHDT
Riverside (SC)	2034	HHDT	Aggregate	Aggregate	Diesel	16928.45147	2246791.517	321.9708069	321970.8069		2246791.517			
Riverside (SC)	2034	HHDT	Aggregate	Aggregate	Electricity	2049.83791	236502.6267	0	0		236502.6267			
Riverside (SC)	2034	HHDT	Aggregate	Aggregate	Natural Gas	986.8455613	61880.99474	9.484792438	9484.792438		61880.99474			
Riverside (SC)	2034	LDA	Aggregate	Aggregate	Gasoline	478914.923	20590508.63	590.6285487	590628.5487	604375.3017	20590508.63	23747074.38	39.29	LDA
Riverside (SC)	2034	LDA	Aggregate	Aggregate	Diesel	612.8703877	20601.79674	0.425467812	425.4678121		20601.79674			
Riverside (SC)	2034	LDA	Aggregate	Aggregate	Electricity	51098.15739	2202667.383	0	0		2202667.383			
Riverside (SC)	2034	LDA	Aggregate	Aggregate	Plug-in Hybrid	20694.1503	933296.5724	13.32128523	13321.28523		933296.5724			
Riverside (SC)	2034	LDT1	Aggregate	Aggregate	Gasoline	35414.21255	1382205.493	47.57314068	47573.14068	47848.85348	1382205.493	1425678.286	29.80	LDT1
Riverside (SC)	2034	LDT1	Aggregate	Aggregate	Diesel	0.258232891	12.18545825	0.000415672	0.415672461		12.18545825			
Riverside (SC)	2034	LDT1	Aggregate	Aggregate	Electricity	505.6248562	23347.80806	0	0		23347.80806			
Riverside (SC)	2034	LDT1	Aggregate	Aggregate	Plug-in Hybrid	403.2817852	20112.79924	0.275297128	275.2971284		20112.79924			
Riverside (SC)	2034	LDT2	Aggregate	Aggregate	Gasoline	245031.7208	10638151.71	366.8208674	366820.8674	371195.8616	10638151.71	11121397.92	29.96	LDT2
Riverside (SC)	2034	LDT2	Aggregate	Aggregate	Diesel	887.6087712	39429.88169	1.027456405	1027.456405		39429.88169			
Riverside (SC)	2034	LDT2	Aggregate	Aggregate	Electricity	6526.337516	204425.8731	0	0		204425.8731			
Riverside (SC)	2034	LDT2	Aggregate	Aggregate	Plug-in Hybrid	5082.859881	239390.4512	3.347537798	3347.537798		239390.4512			
Riverside (SC)	2034	LHDT1	Aggregate	Aggregate	Gasoline	15390.18606	558402.8011	34.66237366	34662.37366	54591.45721	558402.8011	1206097.396	22.09	LHDT1
Riverside (SC)	2034	LHDT1	Aggregate	Aggregate	Diesel	12493.13445	423049.731	19.92908355	19929.08355		423049.731			
Riverside (SC)	2034	LHDT1	Aggregate	Aggregate	Electricity	4126.491664	224644.8644	0	0		224644.8644			
Riverside (SC)	2034	LHDT2	Aggregate	Aggregate	Gasoline	2040.472742	69994.25199	4.972142688	4972.142688	16083.89713	69994.25199	323602.9656	20.12	LHDT2
Riverside (SC)	2034	LHDT2	Aggregate	Aggregate	Diesel	6023.495305	199219.0948	11.11175444	11111.75444		199219.0948			
Riverside (SC)	2034	LHDT2	Aggregate	Aggregate	Electricity	1041.409973	54389.61887	0	0		54389.61887			
Riverside (SC)	2034	MCY	Aggregate	Aggregate	Gasoline	23657.3207	131644.3197	3.06444255	3064.44255	3064.44255	131644.3197	131644.3197	42.96	MCY
Riverside (SC)	2034	MDV	Aggregate	Aggregate	Gasoline	159874.595	6495267.087	277.0363868	277036.3868	282064.7723	6495267.087	6922013.937	24.54	MDV
Riverside (SC)	2034	MDV	Aggregate	Aggregate	Diesel	2066.237645	80587.46567	2.906874047	2906.874047		80587.46567			
Riverside (SC)	2034	MDV	Aggregate	Aggregate	Electricity	6363.831851	197269.232	0	0		197269.232			
Riverside (SC)	2034	MDV	Aggregate	Aggregate	Plug-in Hybrid	3284.507503	148890.1516	2.121511535	2121.511535		148890.1516			
Riverside (SC)	2034	MH	Aggregate	Aggregate	Gasoline	2740.066384	23745.92163	4.864256014	4864.256014	6153.284659	23745.92163	37051.59786	6.02	MH
Riverside (SC)	2034	MH	Aggregate	Aggregate	Diesel	1672.840252	13305.67623	1.289028645	1289.028645		13305.67623			
Riverside (SC)	2034	MHDT	Aggregate	Aggregate	Gasoline	1013.85972	40779.08162	7.127977238	7127.977238	64607.16037	40779.08162	758102.8019	11.73	MHDT
Riverside (SC)	2034	MHDT	Aggregate	Aggregate	Diesel	13544.8584	531366.5928	56.45709902	56457.09902		531366.5928			
Riverside (SC)	2034	MHDT	Aggregate	Aggregate	Electricity	3577.467994	176901.9686	0	0		176901.9686			
Riverside (SC)	2034	MHDT	Aggregate	Aggregate	Natural Gas	224.7586091	9055.158878	1.022084107	1022.084107		9055.158878			
Riverside (SC)	2034	OBUS	Aggregate	Aggregate	Gasoline	265.7927353	7565.152587	1.345589587	1345.589587	3489.209792	7565.152587	28857.45185	8.27	OBUS
Riverside (SC)	2034	OBUS	Aggregate	Aggregate	Diesel	246.293353	15914.96315	1.88622428	1886.22428		15914.96315			
Riverside (SC)	2034	OBUS	Aggregate	Aggregate	Electricity	43.455813	2599.667439	0	0		2599.667439			
Riverside (SC)	2034	OBUS	Aggregate	Aggregate	Natural Gas	49.46205253	2777.668668	0.257395926	257.395926		2777.668668			
Riverside (SC)	2034	SBUS	Aggregate	Aggregate	Gasoline	400.3714415	15742.88366	1.76344936	1763.44936	5310.831798	15742.88366	37731.66577	7.10	SBUS
Riverside (SC)	2034	SBUS	Aggregate	Aggregate	Diesel	317.451046	6245.163037	0.821112729	821.1127292		6245.163037			
Riverside (SC)	2034	SBUS	Aggregate	Aggregate	Electricity	140.2352701	3940.562701	0	0		3940.562701			
Riverside (SC)	2034	SBUS	Aggregate	Aggregate	Natural Gas	546.3722858	11803.05637	2.72626971	2726.26971		11803.05637			
Riverside (SC)	2034	UBUS	Aggregate	Aggregate	Gasoline	109.4792496	11693.48812	1.483154382	1483.154382	4170.072951	11693.48812	50633.60182	12.14	UBUS
Riverside (SC)	2034	UBUS	Aggregate	Aggregate	Electricity	187.4469461	25357.29304	0	0		25357.29304			
Riverside (SC)	2034	UBUS	Aggregate	Aggregate	Natural Gas	109.8762833	13582.82066	2.686918569	2686.918569		13582.82066			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2035
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2035	HHDT	Aggregate	Aggregate	Gasoline	1.7293193	137.9435072	0.028618804	28.6188036	333447.6389	137.9435072	2619911.098	7.86	HHDT
Riverside (SC)	2035	HHDT	Aggregate	Aggregate	Diesel	16996.84248	2285171.733	323.8772623	323877.2623		2285171.733			
Riverside (SC)	2035	HHDT	Aggregate	Aggregate	Electricity	2372.848989	272023.0525	0	0		272023.0525			
Riverside (SC)	2035	HHDT	Aggregate	Aggregate	Natural Gas	990.9690767	62578.36885	9.541757863	9541.757863		62578.36885			
Riverside (SC)	2035	LDA	Aggregate	Aggregate	Gasoline	480463.1389	20656549.09	586.8019873	586801.9873	600581.5017	20656549.09	23902649.17	39.80	LDA
Riverside (SC)	2035	LDA	Aggregate	Aggregate	Diesel	559.0768657	18850.6466	0.383017134	383.0171339		18850.6466			
Riverside (SC)	2035	LDA	Aggregate	Aggregate	Electricity	53526.60337	2281619.327	0	0		2281619.327			
Riverside (SC)	2035	LDA	Aggregate	Aggregate	Plug-in Hybrid	21132.2883	945630.1047	13.3964972	13396.4972		945630.1047			
Riverside (SC)	2035	LDT1	Aggregate	Aggregate	Gasoline	35200.3827	1378601.193	46.87883955	46878.83955	47175.78558	1378601.193	1425630.021	30.22	LDT1
Riverside (SC)	2035	LDT1	Aggregate	Aggregate	Diesel	0.272510513	12.68658966	0.000431588	0.431587683		12.68658966			
Riverside (SC)	2035	LDT1	Aggregate	Aggregate	Electricity	556.3755104	25341.06488	0	0		25341.06488			
Riverside (SC)	2035	LDT1	Aggregate	Aggregate	Plug-in Hybrid	440.9937226	21675.07685	0.29651445	296.5144504		21675.07685			
Riverside (SC)	2035	LDT2	Aggregate	Aggregate	Gasoline	248814.1471	10766846.88	367.7416748	367741.6748	372270.3515	10766846.88	11275341.16	30.29	LDT2
Riverside (SC)	2035	LDT2	Aggregate	Aggregate	Diesel	905.9791335	40056.40605	1.035190912	1035.190912		40056.40605			
Riverside (SC)	2035	LDT2	Aggregate	Aggregate	Electricity	7051.479722	217845.2154	0	0		217845.2154			
Riverside (SC)	2035	LDT2	Aggregate	Aggregate	Plug-in Hybrid	5385.216404	250592.6634	3.493485866	3493.485866		250592.6634			
Riverside (SC)	2035	LHDT1	Aggregate	Aggregate	Gasoline	15021.04276	539556.01	33.21694325	33216.94325	52265.20726	539556.01	1209868.538	23.15	LHDT1
Riverside (SC)	2035	LHDT1	Aggregate	Aggregate	Diesel	12101.54372	405370.9148	19.04826401	19048.26401		405370.9148			
Riverside (SC)	2035	LHDT1	Aggregate	Aggregate	Electricity	4957.956264	264941.6134	0	0		264941.6134			
Riverside (SC)	2035	LHDT2	Aggregate	Aggregate	Gasoline	1972.93244	67100.5756	4.721198104	4721.198104	15369.64633	67100.5756	322824.4432	21.00	LHDT2
Riverside (SC)	2035	LHDT2	Aggregate	Aggregate	Diesel	5871.466688	191584.4808	10.64844823	10648.44823		191584.4808			
Riverside (SC)	2035	LHDT2	Aggregate	Aggregate	Electricity	1250.082193	64139.38682	0	0		64139.38682			
Riverside (SC)	2035	MCY	Aggregate	Aggregate	Gasoline	23682.60893	131509.8476	3.055340438	3055.340438	3055.340438	131509.8476	131509.8476	43.04	MCY
Riverside (SC)	2035	MDV	Aggregate	Aggregate	Gasoline	160610.9442	6517997.708	274.7988084	274798.8084	279833.2688	6517997.708	6961818.527	24.88	MDV
Riverside (SC)	2035	MDV	Aggregate	Aggregate	Diesel	2033.529427	79301.89509	2.822209578	2822.209578		79301.89509			
Riverside (SC)	2035	MDV	Aggregate	Aggregate	Electricity	6826.794006	208666.7896	0	0		208666.7896			
Riverside (SC)	2035	MDV	Aggregate	Aggregate	Plug-in Hybrid	3474.235187	155852.1346	2.212250912	2212.250912		155852.1346			
Riverside (SC)	2035	MH	Aggregate	Aggregate	Gasoline	2608.109288	22831.36869	4.676804345	4676.804345	5936.907812	22831.36869	35832.64508	6.04	MH
Riverside (SC)	2035	MH	Aggregate	Aggregate	Diesel	1632.832724	13001.27639	1.260103468	1260.103468		13001.27639			
Riverside (SC)	2035	MHDT	Aggregate	Aggregate	Gasoline	982.2269958	39090.19086	6.789649684	6789.649684	62613.97665	39090.19086	775135.6588	12.38	MHDT
Riverside (SC)	2035	MHDT	Aggregate	Aggregate	Diesel	13277.13242	518917.4397	54.81269095	54812.69095		518917.4397			
Riverside (SC)	2035	MHDT	Aggregate	Aggregate	Electricity	4239.343858	208165.5642	0	0		208165.5642			
Riverside (SC)	2035	MHDT	Aggregate	Aggregate	Natural Gas	224.5256299	8962.463934	1.011636014	1011.636014		8962.463934			
Riverside (SC)	2035	OBUS	Aggregate	Aggregate	Gasoline	256.5394809	7129.459192	1.260801952	1260.801952	3406.682889	7129.459192	28950.21002	8.50	OBUS
Riverside (SC)	2035	OBUS	Aggregate	Aggregate	Diesel	246.40354	15991.42118	1.884881382	1884.881382		15991.42118			
Riverside (SC)	2035	OBUS	Aggregate	Aggregate	Electricity	50.79692167	2997.409972	0	0		2997.409972			
Riverside (SC)	2035	OBUS	Aggregate	Aggregate	Natural Gas	50.5285312	2831.919675	0.260999555	260.9995551		2831.919675			
Riverside (SC)	2035	SBUS	Aggregate	Aggregate	Gasoline	389.3112567	15286.3217	1.707782637	1707.782637	5143.970638	15286.3217	37428.05308	7.28	SBUS
Riverside (SC)	2035	SBUS	Aggregate	Aggregate	Diesel	291.6255088	5766.657522	0.752357995	752.3579952		5766.657522			
Riverside (SC)	2035	SBUS	Aggregate	Aggregate	Electricity	167.8766037	4720.01043	0	0		4720.01043			
Riverside (SC)	2035	SBUS	Aggregate	Aggregate	Natural Gas	547.5137048	11655.06343	2.683830006	2683.830006		11655.06343			
Riverside (SC)	2035	UBUS	Aggregate	Aggregate	Gasoline	109.4495909	11672.29955	1.475007609	1475.007609	4129.921376	11672.29955	50733.77999	12.28	UBUS
Riverside (SC)	2035	UBUS	Aggregate	Aggregate	Electricity	196.3010145	26065.68295	0	0		26065.68295			
Riverside (SC)	2035	UBUS	Aggregate	Aggregate	Natural Gas	101.856729	12995.79749	2.654913767	2654.913767		12995.79749			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2036
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2036	HHDT	Aggregate	Aggregate	Gasoline	1.650799707	132.5023254	0.027108112	27.10811215	333432.417	132.5023254	2679088.197	8.03	HHDT
Riverside (SC)	2036	HHDT	Aggregate	Aggregate	Diesel	17045.54187	2310819.265	323.8523327	323852.3327		2310819.265			
Riverside (SC)	2036	HHDT	Aggregate	Aggregate	Electricity	2689.454436	305226.4248	0	0		305226.4248			
Riverside (SC)	2036	HHDT	Aggregate	Aggregate	Natural Gas	991.8961039	62910.00514	9.552976221	9552.976221		62910.00514			
Riverside (SC)	2036	LDA	Aggregate	Aggregate	Gasoline	482281.8455	20730516.41	583.5556465	583555.6465	597384.832	20730516.41	24056309.66	40.27	LDA
Riverside (SC)	2036	LDA	Aggregate	Aggregate	Diesel	513.1563245	17430.48104	0.347933914	347.9339137		17430.48104			
Riverside (SC)	2036	LDA	Aggregate	Aggregate	Electricity	55776.88492	2352023.839	0	0		2352023.839			
Riverside (SC)	2036	LDA	Aggregate	Aggregate	Plug-in Hybrid	21526.86123	956338.9289	13.48125155	13481.25155		956338.9289			
Riverside (SC)	2036	LDT1	Aggregate	Aggregate	Gasoline	35007.31915	1375626.559	46.23024625	46230.24625	46547.55783	1375626.559	1425966.005	30.63	LDT1
Riverside (SC)	2036	LDT1	Aggregate	Aggregate	Diesel	0.286182716	13.15003752	0.000445732	0.445732424		13.15003752			
Riverside (SC)	2036	LDT1	Aggregate	Aggregate	Electricity	605.5988658	27196.2763	0	0		27196.2763			
Riverside (SC)	2036	LDT1	Aggregate	Aggregate	Plug-in Hybrid	477.5111686	23130.01957	0.31686584	316.8658404		23130.01957			
Riverside (SC)	2036	LDT2	Aggregate	Aggregate	Gasoline	252396.8327	10884946.7	368.4536546	368453.6546	373127.5344	10884946.7	11416531.38	30.60	LDT2
Riverside (SC)	2036	LDT2	Aggregate	Aggregate	Diesel	923.3514448	40633.48155	1.041192714	1041.192714		40633.48155			
Riverside (SC)	2036	LDT2	Aggregate	Aggregate	Electricity	7552.640182	230153.8348	0	0		230153.8348			
Riverside (SC)	2036	LDT2	Aggregate	Aggregate	Plug-in Hybrid	5670.015361	260797.3652	3.63268704	3632.68704		260797.3652			
Riverside (SC)	2036	LHDT1	Aggregate	Aggregate	Gasoline	14672.10836	521903.2927	31.83864937	31838.64937	50031.18847	521903.2927	1214032.116	24.27	LHDT1
Riverside (SC)	2036	LHDT1	Aggregate	Aggregate	Diesel	11712.34883	388676.2801	18.1925391	18192.5391		388676.2801			
Riverside (SC)	2036	LHDT1	Aggregate	Aggregate	Electricity	5804.570426	303452.5427	0	0		303452.5427			
Riverside (SC)	2036	LHDT2	Aggregate	Aggregate	Gasoline	1906.576079	64371.98232	4.479365401	4479.365401	14670.35169	64371.98232	322060.3662	21.95	LHDT2
Riverside (SC)	2036	LHDT2	Aggregate	Aggregate	Diesel	5715.704623	184241.5744	10.19098629	10190.98629		184241.5744			
Riverside (SC)	2036	LHDT2	Aggregate	Aggregate	Electricity	1461.972586	73446.80949	0	0		73446.80949			
Riverside (SC)	2036	MCY	Aggregate	Aggregate	Gasoline	23720.0429	131425.1012	3.046808698	3046.808698	3046.808698	131425.1012	131425.1012	43.14	MCY
Riverside (SC)	2036	MDV	Aggregate	Aggregate	Gasoline	161440.4985	6542347.146	272.8222866	272822.2866	277865.0566	6542347.146	7001884.415	25.20	MDV
Riverside (SC)	2036	MDV	Aggregate	Aggregate	Diesel	2003.135042	78168.99139	2.743223408	2743.223408		78168.99139			
Riverside (SC)	2036	MDV	Aggregate	Aggregate	Electricity	7269.50523	219123.9012	0	0		219123.9012			
Riverside (SC)	2036	MDV	Aggregate	Aggregate	Plug-in Hybrid	3654.331304	162244.376	2.299546616	2299.546616		162244.376			
Riverside (SC)	2036	MH	Aggregate	Aggregate	Gasoline	2486.402707	22016.09434	4.505077389	4505.077389	5736.312396	22016.09434	34721.43367	6.05	MH
Riverside (SC)	2036	MH	Aggregate	Aggregate	Diesel	1591.45872	12705.33933	1.231235007	1231.235007		12705.33933			
Riverside (SC)	2036	MHDT	Aggregate	Aggregate	Gasoline	952.4526778	37493.44089	6.466986381	6466.986381	60714.76794	37493.44089	792520.9709	13.05	MHDT
Riverside (SC)	2036	MHDT	Aggregate	Aggregate	Diesel	12997.6924	507509.601	53.24826958	53248.26958		507509.601			
Riverside (SC)	2036	MHDT	Aggregate	Aggregate	Electricity	4900.344038	238659.0095	0	0		238659.0095			
Riverside (SC)	2036	MHDT	Aggregate	Aggregate	Natural Gas	223.2512746	8858.919507	0.999511982	999.5119817		8858.919507			
Riverside (SC)	2036	OBUS	Aggregate	Aggregate	Gasoline	247.6093707	6734.511113	1.184237396	1184.237396	3332.950169	6734.511113	29055.42121	8.72	OBUS
Riverside (SC)	2036	OBUS	Aggregate	Aggregate	Diesel	246.133951	16064.79872	1.883929361	1883.929361		16064.79872			
Riverside (SC)	2036	OBUS	Aggregate	Aggregate	Electricity	57.98262178	3370.346013	0	0		3370.346013			
Riverside (SC)	2036	OBUS	Aggregate	Aggregate	Natural Gas	51.49682648	2885.765365	0.264783412	264.7834115		2885.765365			
Riverside (SC)	2036	SBUS	Aggregate	Aggregate	Gasoline	374.5786039	14684.11034	1.635128583	1635.128583	4958.955588	14684.11034	36978.23248	7.46	SBUS
Riverside (SC)	2036	SBUS	Aggregate	Aggregate	Diesel	267.4048277	5318.18832	0.687923187	687.923187		5318.18832			
Riverside (SC)	2036	SBUS	Aggregate	Aggregate	Electricity	195.4516122	5491.785391	0	0		5491.785391			
Riverside (SC)	2036	SBUS	Aggregate	Aggregate	Natural Gas	546.6176461	11484.14842	2.635903818	2635.903818		11484.14842			
Riverside (SC)	2036	UBUS	Aggregate	Aggregate	Gasoline	112.8980504	11979.68565	1.48902974	1489.02974	4130.400332	11979.68565	52904.40449	12.81	UBUS
Riverside (SC)	2036	UBUS	Aggregate	Aggregate	Electricity	219.8909705	28583.88319	0	0		28583.88319			
Riverside (SC)	2036	UBUS	Aggregate	Aggregate	Natural Gas	92.26285464	12340.83565	2.641370592	2641.370592		12340.83565			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2037
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calen	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2037	HHDT	Aggregate	Aggregate	Gasoline	1.536376464	126.5844118	0.025554641	25.55464143	334475.0971	126.5844118	2739831.419	8.19	HHDT
Riverside (SC)	2037	HHDT	Aggregate	Aggregate	Diesel	17122.92668	2339847.126	324.8919592	324891.9592		2339847.126			
Riverside (SC)	2037	HHDT	Aggregate	Aggregate	Electricity	2998.641461	336684.6367	0	0		336684.6367			
Riverside (SC)	2037	HHDT	Aggregate	Aggregate	Natural Gas	991.8584081	63173.07221	9.557583249	9557.583249		63173.07221			
Riverside (SC)	2037	LDA	Aggregate	Aggregate	Gasoline	484519.3591	20812970.15	581.5479277	581547.9277	595398.1941	20812970.15	24209085.58	40.66	LDA
Riverside (SC)	2037	LDA	Aggregate	Aggregate	Diesel	474.6681812	16295.4097	0.320122468	320.1224685		16295.4097			
Riverside (SC)	2037	LDA	Aggregate	Aggregate	Electricity	57847.7974	2414290.323	0	0		2414290.323			
Riverside (SC)	2037	LDA	Aggregate	Aggregate	Plug-in Hybr	21879.01877	965529.6975	13.53014387	13530.14387		965529.6975			
Riverside (SC)	2037	LDT1	Aggregate	Aggregate	Gasoline	34871.64225	1373995.607	45.70891578	45708.91578	46044.70799	1373995.607	1427408.657	31.00	LDT1
Riverside (SC)	2037	LDT1	Aggregate	Aggregate	Diesel	0.299266587	13.57840365	0.000459306	0.459306266		13.57840365			
Riverside (SC)	2037	LDT1	Aggregate	Aggregate	Electricity	653.2614533	28917.42313	0	0		28917.42313			
Riverside (SC)	2037	LDT1	Aggregate	Aggregate	Plug-in Hybr	512.8042469	24482.04863	0.335332907	335.3329065		24482.04863			
Riverside (SC)	2037	LDT2	Aggregate	Aggregate	Gasoline	255791.0239	10993136.34	369.3801209	369380.1209	374181.1303	10993136.34	11545669.56	30.86	LDT2
Riverside (SC)	2037	LDT2	Aggregate	Aggregate	Diesel	940.0288192	41170.42997	1.048346433	1048.346433		41170.42997			
Riverside (SC)	2037	LDT2	Aggregate	Aggregate	Electricity	8027.800571	241358.2207	0	0		241358.2207			
Riverside (SC)	2037	LDT2	Aggregate	Aggregate	Plug-in Hybr	5935.748483	270004.5697	3.752663041	3752.663041		270004.5697			
Riverside (SC)	2037	LHDT1	Aggregate	Aggregate	Gasoline	14341.74701	505897.2384	30.65830389	30658.30389	48069.20486	505897.2384	1218027.889	25.34	LHDT1
Riverside (SC)	2037	LHDT1	Aggregate	Aggregate	Diesel	11315.164	372929.0861	17.41090097	17410.90097		372929.0861			
Riverside (SC)	2037	LHDT1	Aggregate	Aggregate	Electricity	6640.998355	339201.5647	0	0		339201.5647			
Riverside (SC)	2037	LHDT2	Aggregate	Aggregate	Gasoline	1844.718281	61928.36218	4.27150289	4271.50289	14037.98817	61928.36218	321219.2985	22.88	LHDT2
Riverside (SC)	2037	LHDT2	Aggregate	Aggregate	Diesel	5551.790732	177189.0162	9.766485276	9766.485276		177189.0162			
Riverside (SC)	2037	LHDT2	Aggregate	Aggregate	Electricity	1671.083151	82101.92012	0	0		82101.92012			
Riverside (SC)	2037	MCY	Aggregate	Aggregate	Gasoline	23781.6839	131415.3759	3.041956724	3041.956724	3041.956724	131415.3759	131415.3759	43.20	MCY
Riverside (SC)	2037	MDV	Aggregate	Aggregate	Gasoline	162328.4903	6567487.641	271.3480904	271348.0904	276403.1041	6567487.641	7041494.208	25.48	MDV
Riverside (SC)	2037	MDV	Aggregate	Aggregate	Diesel	1976.865714	77215.28208	2.678105498	2678.105498		77215.28208			
Riverside (SC)	2037	MDV	Aggregate	Aggregate	Electricity	7690.27748	228649.0949	0	0		228649.0949			
Riverside (SC)	2037	MDV	Aggregate	Aggregate	Plug-in Hybr	3826.418535	168142.19	2.376908201	2376.908201		168142.19			
Riverside (SC)	2037	MH	Aggregate	Aggregate	Gasoline	2377.539629	21310.24356	4.360561341	4360.561341	5563.559435	21310.24356	33718.60773	6.06	MH
Riverside (SC)	2037	MH	Aggregate	Aggregate	Diesel	1547.440906	12408.36416	1.202998094	1202.998094		12408.36416			
Riverside (SC)	2037	MHDT	Aggregate	Aggregate	Gasoline	923.1451007	36003.56465	6.174501809	6174.501809	59067.46044	36003.56465	810267.2207	13.72	MHDT
Riverside (SC)	2037	MHDT	Aggregate	Aggregate	Diesel	12724.79829	497467.3305	51.90547542	51905.47542		497467.3305			
Riverside (SC)	2037	MHDT	Aggregate	Aggregate	Electricity	5554.763123	268038.7421	0	0		268038.7421			
Riverside (SC)	2037	MHDT	Aggregate	Aggregate	Natural Gas	221.6447957	8757.58339	0.987483213	987.4832126		8757.58339			
Riverside (SC)	2037	OBUS	Aggregate	Aggregate	Gasoline	240.0485128	6392.783841	1.118329261	1118.329261	3270.167219	6392.783841	29178.46472	8.92	OBUS
Riverside (SC)	2037	OBUS	Aggregate	Aggregate	Diesel	246.6526074	16146.3949	1.88421488	1884.21488		16146.3949			
Riverside (SC)	2037	OBUS	Aggregate	Aggregate	Electricity	64.88655825	3711.170807	0	0		3711.170807			
Riverside (SC)	2037	OBUS	Aggregate	Aggregate	Natural Gas	52.35404791	2928.115179	0.267623079	267.6230787		2928.115179			
Riverside (SC)	2037	SBUS	Aggregate	Aggregate	Gasoline	355.1444514	13896.25316	1.540913492	1540.913492	4753.90033	13896.25316	36341.99949	7.64	SBUS
Riverside (SC)	2037	SBUS	Aggregate	Aggregate	Diesel	245.1708482	4918.711245	0.630231097	630.2310974		4918.711245			
Riverside (SC)	2037	SBUS	Aggregate	Aggregate	Electricity	222.2118466	6233.708512	0	0		6233.708512			
Riverside (SC)	2037	SBUS	Aggregate	Aggregate	Natural Gas	543.240362	11293.32658	2.58275574	2582.75574		11293.32658			
Riverside (SC)	2037	UBUS	Aggregate	Aggregate	Gasoline	106.2529959	10292.8481	1.004448236	1004.448236	3632.27468	10292.8481	55075.65253	15.16	UBUS
Riverside (SC)	2037	UBUS	Aggregate	Aggregate	Electricity	244.4902778	32504.77827	0	0		32504.77827			
Riverside (SC)	2037	UBUS	Aggregate	Aggregate	Natural Gas	91.75314278	12278.02616	2.627826443	2627.826443		12278.02616			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2038
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calen	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2038	HHDT	Aggregate	Aggregate	Gasoline	1.452906925	121.1088974	0.02415405	24.15405011	336133.456	121.1088974	2802184.758	8.34	HHDT
Riverside (SC)	2038	HHDT	Aggregate	Aggregate	Diesel	17232.36306	2371909.667	326.5466191	326546.6191		2371909.667			
Riverside (SC)	2038	HHDT	Aggregate	Aggregate	Electricity	3304.309272	366799.1777	0	0		366799.1777			
Riverside (SC)	2038	HHDT	Aggregate	Aggregate	Natural Gas	990.6084232	63354.80501	9.562682781	9562.682781		63354.80501			
Riverside (SC)	2038	LDA	Aggregate	Aggregate	Gasoline	487065.8478	20903374.17	580.2898134	580289.8134	594180.4282	20903374.17	24361705.51	41.00	LDA
Riverside (SC)	2038	LDA	Aggregate	Aggregate	Diesel	443.5398113	15410.72803	0.297669324	297.6693235		15410.72803			
Riverside (SC)	2038	LDA	Aggregate	Aggregate	Electricity	59743.63916	2469282.441	0	0		2469282.441			
Riverside (SC)	2038	LDA	Aggregate	Aggregate	Plug-in Hybr	22198.41037	973638.1693	13.59294552	13592.94552		973638.1693			
Riverside (SC)	2038	LDT1	Aggregate	Aggregate	Gasoline	34748.06715	1372837.845	45.24396193	45243.96193	45597.45266	1372837.845	1429099.556	31.34	LDT1
Riverside (SC)	2038	LDT1	Aggregate	Aggregate	Diesel	0.31167131	13.97215665	0.000470769	0.470768832		13.97215665			
Riverside (SC)	2038	LDT1	Aggregate	Aggregate	Electricity	699.2776029	30510.60523	0	0		30510.60523			
Riverside (SC)	2038	LDT1	Aggregate	Aggregate	Plug-in Hybr	546.8168745	25737.13397	0.353019956	353.0199559		25737.13397			
Riverside (SC)	2038	LDT2	Aggregate	Aggregate	Gasoline	259030.155	11093867.73	370.3268278	370326.8278	375246.4047	11093867.73	11665349.26	31.09	LDT2
Riverside (SC)	2038	LDT2	Aggregate	Aggregate	Diesel	956.2264987	41677.87249	1.053380038	1053.380038		41677.87249			
Riverside (SC)	2038	LDT2	Aggregate	Aggregate	Electricity	8475.552569	251507.1168	0	0		251507.1168			
Riverside (SC)	2038	LDT2	Aggregate	Aggregate	Plug-in Hybr	6182.468917	278296.5448	3.866196917	3866.196917		278296.5448			
Riverside (SC)	2038	LHDT1	Aggregate	Aggregate	Gasoline	14015.46898	491060.8407	29.49759588	29497.59588	46168.54939	491060.8407	1222075.561	26.47	LHDT1
Riverside (SC)	2038	LHDT1	Aggregate	Aggregate	Diesel	10931.37907	358420.2786	16.67095351	16670.95351		358420.2786			
Riverside (SC)	2038	LHDT1	Aggregate	Aggregate	Electricity	7465.367308	372594.4419	0	0		372594.4419			
Riverside (SC)	2038	LHDT2	Aggregate	Aggregate	Gasoline	1785.607402	59711.10518	4.072289445	4072.289445	13428.40236	59711.10518	320452.0725	23.86	LHDT2
Riverside (SC)	2038	LHDT2	Aggregate	Aggregate	Diesel	5386.989729	170548.2839	9.356112914	9356.112914		170548.2839			
Riverside (SC)	2038	LHDT2	Aggregate	Aggregate	Electricity	1876.887848	90192.6834	0	0		90192.6834			
Riverside (SC)	2038	MCY	Aggregate	Aggregate	Gasoline	23849.46441	131453.2788	3.038283222	3038.283222	3038.283222	131453.2788	131453.2788	43.27	MCY
Riverside (SC)	2038	MDV	Aggregate	Aggregate	Gasoline	163260.4832	6593532.077	270.1706311	270170.6311	275237.9644	6593532.077	7080756.646	25.73	MDV
Riverside (SC)	2038	MDV	Aggregate	Aggregate	Diesel	1953.796874	76408.0384	2.616272953	2616.272953		76408.0384			
Riverside (SC)	2038	MDV	Aggregate	Aggregate	Electricity	8087.963415	237291.0691	0	0		237291.0691			
Riverside (SC)	2038	MDV	Aggregate	Aggregate	Plug-in Hybr	3988.609411	173525.4616	2.451060324	2451.060324		173525.4616			
Riverside (SC)	2038	MH	Aggregate	Aggregate	Gasoline	2276.742886	20674.65694	4.231870212	4231.870212	5406.484153	20674.65694	32795.10566	6.07	MH
Riverside (SC)	2038	MH	Aggregate	Aggregate	Diesel	1502.996039	12120.44871	1.17461394	1174.61394		12120.44871			
Riverside (SC)	2038	MHDT	Aggregate	Aggregate	Gasoline	895.8937431	34637.51658	5.910267209	5910.267209	57566.22876	34637.51658	828405.1726	14.39	MHDT
Riverside (SC)	2038	MHDT	Aggregate	Aggregate	Diesel	12469.71429	488599.0415	50.68193255	50681.93255		488599.0415			
Riverside (SC)	2038	MHDT	Aggregate	Aggregate	Electricity	6205.73885	296520.2174	0	0		296520.2174			
Riverside (SC)	2038	MHDT	Aggregate	Aggregate	Natural Gas	219.5254157	8648.397096	0.974028999	974.0289992		8648.397096			
Riverside (SC)	2038	OBUS	Aggregate	Aggregate	Gasoline	233.6373504	6096.739552	1.061472638	1061.472638	3216.54605	6096.739552	29314.53938	9.11	OBUS
Riverside (SC)	2038	OBUS	Aggregate	Aggregate	Diesel	247.5651056	16227.27272	1.884614919	1884.614919		16227.27272			
Riverside (SC)	2038	OBUS	Aggregate	Aggregate	Electricity	71.49838531	4021.827361	0	0		4021.827361			
Riverside (SC)	2038	OBUS	Aggregate	Aggregate	Natural Gas	53.30741878	2968.699751	0.270458493	270.4584932		2968.699751			
Riverside (SC)	2038	SBUS	Aggregate	Aggregate	Gasoline	329.2313876	12856.26815	1.417002894	1417.002894	4516.116488	12856.26815	35453.2174	7.85	SBUS
Riverside (SC)	2038	SBUS	Aggregate	Aggregate	Diesel	225.1936349	4556.446342	0.577916787	577.9167874		4556.446342			
Riverside (SC)	2038	SBUS	Aggregate	Aggregate	Electricity	249.1700902	6968.319275	0	0		6968.319275			
Riverside (SC)	2038	SBUS	Aggregate	Aggregate	Natural Gas	536.6652567	11072.18364	2.521196806	2521.196806		11072.18364			
Riverside (SC)	2038	UBUS	Aggregate	Aggregate	Gasoline	109.7427315	10607.2872	1.019027149	1019.027149	3633.308485	10607.2872	57247.60418	15.76	UBUS
Riverside (SC)	2038	UBUS	Aggregate	Aggregate	Electricity	258.8877213	34421.19383	0	0		34421.19383			
Riverside (SC)	2038	UBUS	Aggregate	Aggregate	Natural Gas	91.31050466	12219.12315	2.614281336	2614.281336		12219.12315			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2039
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar Y	ehicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2039	HHDT	Aggregate	Aggregate	Gasoline	1.383473441	116.3879085	0.02299509	22.9950897	338680.0552	116.3879085	2866565.735	8.46	HHDT
Riverside (SC)	2039	HHDT	Aggregate	Aggregate	Diesel	17370.00148	2407148.671	329.1075504	329107.5504		2407148.671			
Riverside (SC)	2039	HHDT	Aggregate	Aggregate	Electricity	3608.836058	395849.2906	0	0		395849.2906			
Riverside (SC)	2039	HHDT	Aggregate	Aggregate	Natural Gas	988.7803969	63451.38471	9.549509701	9549.509701		63451.38471			
Riverside (SC)	2039	LDA	Aggregate	Aggregate	Gasoline	489943.5092	20998484.23	579.8115739	579811.5739	593724.5048	20998484.23	24511383.91	41.28	LDA
Riverside (SC)	2039	LDA	Aggregate	Aggregate	Diesel	419.1793578	14747.45257	0.281126568	281.1265683		14747.45257			
Riverside (SC)	2039	LDA	Aggregate	Aggregate	Electricity	61470.21477	2517401.526	0	0		2517401.526			
Riverside (SC)	2039	LDA	Aggregate	Aggregate	Plug-in Hybrid	22489.68521	980750.7017	13.63180429	13631.80429		980750.7017			
Riverside (SC)	2039	LDT1	Aggregate	Aggregate	Gasoline	34659.00677	1372431.171	44.85522478	44855.22478	45224.66012	1372431.171	1431321.331	31.65	LDT1
Riverside (SC)	2039	LDT1	Aggregate	Aggregate	Diesel	0.323444181	14.33353505	0.000482166	0.482165518		14.33353505			
Riverside (SC)	2039	LDT1	Aggregate	Aggregate	Electricity	743.6307592	31978.7351	0	0		31978.7351			
Riverside (SC)	2039	LDT1	Aggregate	Aggregate	Plug-in Hybrid	579.4952256	26897.09133	0.368953174	368.9531738		26897.09133			
Riverside (SC)	2039	LDT2	Aggregate	Aggregate	Gasoline	262166.8694	11187822.63	371.4104587	371410.4587	376433.6574	11187822.63	11776281.14	31.28	LDT2
Riverside (SC)	2039	LDT2	Aggregate	Aggregate	Diesel	972.0073608	42153.57884	1.060599678	1060.599678		42153.57884			
Riverside (SC)	2039	LDT2	Aggregate	Aggregate	Electricity	8894.641372	260614.6325	0	0		260614.6325			
Riverside (SC)	2039	LDT2	Aggregate	Aggregate	Plug-in Hybrid	6409.890454	285690.2969	3.962599033	3962.599033		285690.2969			
Riverside (SC)	2039	LHDT1	Aggregate	Aggregate	Gasoline	13707.20069	477398.0023	28.51953663	28519.53663	44527.63502	477398.0023	1226249.576	27.54	LHDT1
Riverside (SC)	2039	LHDT1	Aggregate	Aggregate	Diesel	10566.7654	345098.2405	16.00809839	16008.09839		345098.2405			
Riverside (SC)	2039	LHDT1	Aggregate	Aggregate	Electricity	8274.879796	403753.3336	0	0		403753.3336			
Riverside (SC)	2039	LHDT2	Aggregate	Aggregate	Gasoline	1731.858567	57730.55434	3.905784112	3905.784112	12898.47673	57730.55434	319963.852	24.81	LHDT2
Riverside (SC)	2039	LHDT2	Aggregate	Aggregate	Diesel	5233.417463	164482.464	8.992692622	8992.692622		164482.464			
Riverside (SC)	2039	LHDT2	Aggregate	Aggregate	Electricity	2078.826171	97750.83369	0	0		97750.83369			
Riverside (SC)	2039	MCY	Aggregate	Aggregate	Gasoline	23913.65796	131521.1771	3.035813983	3035.813983	3035.813983	131521.1771	131521.1771	43.32	MCY
Riverside (SC)	2039	MDV	Aggregate	Aggregate	Gasoline	164159.5283	6618242.922	269.2316069	269231.6069	274313.5787	6618242.922	7117401.022	25.95	MDV
Riverside (SC)	2039	MDV	Aggregate	Aggregate	Diesel	1931.882636	75707.04823	2.566797742	2566.797742		75707.04823			
Riverside (SC)	2039	MDV	Aggregate	Aggregate	Electricity	8461.35255	245057.5375	0	0		245057.5375			
Riverside (SC)	2039	MDV	Aggregate	Aggregate	Plug-in Hybrid	4140.547537	178393.5139	2.515173991	2515.173991		178393.5139			
Riverside (SC)	2039	MH	Aggregate	Aggregate	Gasoline	2184.254046	20102.1643	4.114616978	4114.616978	5263.647297	20102.1643	31952.89016	6.07	MH
Riverside (SC)	2039	MH	Aggregate	Aggregate	Diesel	1460.729606	11850.72586	1.149030319	1149.030319		11850.72586			
Riverside (SC)	2039	MHDT	Aggregate	Aggregate	Gasoline	869.8357903	33379.97102	5.66707326	5667.07326	56266.55304	33379.97102	846915.7615	15.05	MHDT
Riverside (SC)	2039	MHDT	Aggregate	Aggregate	Diesel	12237.51706	481024.4512	49.63838129	49638.38129		481024.4512			
Riverside (SC)	2039	MHDT	Aggregate	Aggregate	Electricity	6849.464939	323970.4849	0	0		323970.4849			
Riverside (SC)	2039	MHDT	Aggregate	Aggregate	Natural Gas	217.2880386	8540.854396	0.96109849	961.09849		8540.854396			
Riverside (SC)	2039	OBUS	Aggregate	Aggregate	Gasoline	227.5163014	5835.605972	1.011455876	1011.455876	3170.088555	5835.605972	29453.77485	9.29	OBUS
Riverside (SC)	2039	OBUS	Aggregate	Aggregate	Diesel	248.6711039	16305.80912	1.885309119	1885.309119		16305.80912			
Riverside (SC)	2039	OBUS	Aggregate	Aggregate	Electricity	77.83445908	4304.240718	0	0		4304.240718			
Riverside (SC)	2039	OBUS	Aggregate	Aggregate	Natural Gas	54.32867457	3008.119043	0.273323561	273.3235612		3008.119043			
Riverside (SC)	2039	SBUS	Aggregate	Aggregate	Gasoline	298.9578456	11648.53257	1.273360665	1273.360665	4251.389419	11648.53257	34398.03979	8.09	SBUS
Riverside (SC)	2039	SBUS	Aggregate	Aggregate	Diesel	207.6070166	4233.788729	0.53130859	531.3085903		4233.788729			
Riverside (SC)	2039	SBUS	Aggregate	Aggregate	Electricity	276.858723	7712.438414	0	0		7712.438414			
Riverside (SC)	2039	SBUS	Aggregate	Aggregate	Natural Gas	526.5081028	10803.28007	2.446720163	2446.720163		10803.28007			
Riverside (SC)	2039	UBUS	Aggregate	Aggregate	Gasoline	98.10410453	9070.171983	0.571489631	571.4896315	3175.557576	9070.171983	59418.87891	18.71	UBUS
Riverside (SC)	2039	UBUS	Aggregate	Aggregate	Electricity	302.7194333	39115.09378	0	0		39115.09378			
Riverside (SC)	2039	UBUS	Aggregate	Aggregate	Natural Gas	76.56196063	11233.61315	2.604067944	2604.067944		11233.61315			

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: Sub-Area
Region: Riverside (SC)
Calendar Year: 2040
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	Calen	Vehicle Cat	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2040	HHDT	Aggregate	Aggregate	Gasoline	1.33765568	112.2437225	0.022013244	22.01324373	341960.5688	112.2437225	2932846.864	8.58	HHDT
Riverside (SC)	2040	HHDT	Aggregate	Aggregate	Diesel	17540.8291	2445706.112	332.4133182	332413.3182		2445706.112			
Riverside (SC)	2040	HHDT	Aggregate	Aggregate	Electricity	3909.672475	423571.0134	0	0		423571.0134			
Riverside (SC)	2040	HHDT	Aggregate	Aggregate	Natural Gas	986.0779815	63457.49473	9.525237414	9525.237414		63457.49473			
Riverside (SC)	2040	LDA	Aggregate	Aggregate	Gasoline	493021.6425	21095278.65	579.874643	579874.643	593810.0886	21095278.65	24655804.21	41.52	LDA
Riverside (SC)	2040	LDA	Aggregate	Aggregate	Diesel	397.9763208	14228.46197	0.267965132	267.9651319		14228.46197			
Riverside (SC)	2040	LDA	Aggregate	Aggregate	Electricity	63036.02803	2559309.413	0	0		2559309.413			
Riverside (SC)	2040	LDA	Aggregate	Aggregate	Plug-in Hybr	22755.25751	986987.6807	13.66748042	13667.48042		986987.6807			
Riverside (SC)	2040	LDT1	Aggregate	Aggregate	Gasoline	34608.38612	1372531.923	44.52277409	44522.77409	44906.93725	1372531.923	1433837.39	31.93	LDT1
Riverside (SC)	2040	LDT1	Aggregate	Aggregate	Diesel	0.334542652	14.66319651	0.000492544	0.492544292		14.66319651			
Riverside (SC)	2040	LDT1	Aggregate	Aggregate	Electricity	786.1805318	33324.72115	0	0		33324.72115			
Riverside (SC)	2040	LDT1	Aggregate	Aggregate	Plug-in Hybr	610.7978307	27966.08275	0.383670617	383.6706172		27966.08275			
Riverside (SC)	2040	LDT2	Aggregate	Aggregate	Gasoline	265183.8237	11274853.97	372.5396295	372539.6295	377655.551	11274853.97	11878440.25	31.45	LDT2
Riverside (SC)	2040	LDT2	Aggregate	Aggregate	Diesel	987.0590213	42589.22619	1.067473674	1067.473674		42589.22619			
Riverside (SC)	2040	LDT2	Aggregate	Aggregate	Electricity	9284.388421	268729.5189	0	0		268729.5189			
Riverside (SC)	2040	LDT2	Aggregate	Aggregate	Plug-in Hybr	6619.113937	292267.5349	4.048447817	4048.447817		292267.5349			
Riverside (SC)	2040	LHDT1	Aggregate	Aggregate	Gasoline	13385.54328	464388.9092	27.59152892	27591.52892	42983.77078	464388.9092	1229912.473	28.61	LHDT1
Riverside (SC)	2040	LHDT1	Aggregate	Aggregate	Diesel	10210.98655	332703.9236	15.39224186	15392.24186		332703.9236			
Riverside (SC)	2040	LHDT1	Aggregate	Aggregate	Electricity	9066.737259	432819.6405	0	0		432819.6405			
Riverside (SC)	2040	LHDT2	Aggregate	Aggregate	Gasoline	1680.731641	55921.52521	3.754579768	3754.579768	12419.02283	55921.52521	319714.6652	25.74	LHDT2
Riverside (SC)	2040	LHDT2	Aggregate	Aggregate	Diesel	5089.125772	158981.5364	8.664443064	8664.443064		158981.5364			
Riverside (SC)	2040	LHDT2	Aggregate	Aggregate	Electricity	2276.319194	104811.6036	0	0		104811.6036			
Riverside (SC)	2040	MCY	Aggregate	Aggregate	Gasoline	23998.45692	131623.1704	3.034839585	3034.839585	3034.839585	131623.1704	131623.1704	43.37	MCY
Riverside (SC)	2040	MDV	Aggregate	Aggregate	Gasoline	165115.6711	6642989.087	268.5511509	268551.1509	273650.4269	6642989.087	7152926.391	26.14	MDV
Riverside (SC)	2040	MDV	Aggregate	Aggregate	Diesel	1915.938904	75158.87749	2.526175625	2526.175625		75158.87749			
Riverside (SC)	2040	MDV	Aggregate	Aggregate	Electricity	8810.360366	251999.5651	0	0		251999.5651			
Riverside (SC)	2040	MDV	Aggregate	Aggregate	Plug-in Hybr	4282.45464	182778.8613	2.573100412	2573.100412		182778.8613			
Riverside (SC)	2040	MH	Aggregate	Aggregate	Gasoline	2098.561092	19579.08364	4.007494352	4007.494352	5132.9278	19579.08364	31180.99988	6.07	MH
Riverside (SC)	2040	MH	Aggregate	Aggregate	Diesel	1421.114005	11601.91624	1.125433448	1125.433448		11601.91624			
Riverside (SC)	2040	MHDT	Aggregate	Aggregate	Gasoline	845.2191891	32228.33493	5.446249713	5446.249713	55115.39016	32228.33493	865815.4305	15.71	MHDT
Riverside (SC)	2040	MHDT	Aggregate	Aggregate	Diesel	12022.2792	474470.1343	48.71961962	48719.61962		474470.1343			
Riverside (SC)	2040	MHDT	Aggregate	Aggregate	Electricity	7490.516244	350670.1006	0	0		350670.1006			
Riverside (SC)	2040	MHDT	Aggregate	Aggregate	Natural Gas	215.097785	8446.860612	0.949520826	949.5208262		8446.860612			
Riverside (SC)	2040	OBUS	Aggregate	Aggregate	Gasoline	220.6640161	5599.192594	0.966053927	966.0539268	3129.07042	5599.192594	29586.15568	9.46	OBUS
Riverside (SC)	2040	OBUS	Aggregate	Aggregate	Diesel	250.1899368	16385.90272	1.887241996	1887.241996		16385.90272			
Riverside (SC)	2040	OBUS	Aggregate	Aggregate	Electricity	83.87197645	4559.153622	0	0		4559.153622			
Riverside (SC)	2040	OBUS	Aggregate	Aggregate	Natural Gas	55.29742369	3041.906746	0.275774497	275.7744973		3041.906746			
Riverside (SC)	2040	SBUS	Aggregate	Aggregate	Gasoline	266.0280758	10340.89857	1.118054064	1118.054064	3967.7283	10340.89857	33243.80813	8.38	SBUS
Riverside (SC)	2040	SBUS	Aggregate	Aggregate	Diesel	192.6021481	3959.028087	0.491486154	491.486154		3959.028087			
Riverside (SC)	2040	SBUS	Aggregate	Aggregate	Electricity	305.0813096	8462.376221	0	0		8462.376221			
Riverside (SC)	2040	SBUS	Aggregate	Aggregate	Natural Gas	512.3891392	10481.50525	2.358188082	2358.188082		10481.50525			
Riverside (SC)	2040	UBUS	Aggregate	Aggregate	Gasoline	101.620965	9388.478738	0.589083177	589.0831774	3182.937068	9388.478738	61590.15364	19.35	UBUS
Riverside (SC)	2040	UBUS	Aggregate	Aggregate	Electricity	337.2146449	42266.50958	0	0		42266.50958			
Riverside (SC)	2040	UBUS	Aggregate	Aggregate	Natural Gas	55.9944295	9935.165327	2.593853891	2593.853891		9935.165327			

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