APPENDIX C5:
EBPSP ENERGY STUDY



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EUCALYPTUS BUSINESS PARK SPECIFIC PLAN

ENERGY ANALYSIS

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16285-05 EA Report	City of Ontario	January 20, 2026

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TABLE OF CONTENTS

EXECUTIVE SUMMARY **1**
ES.1 Summary of Findings 1
ES.2 Project Requirements 1
ES.3 Project Mitigation Measures (MMs) 2

1 INTRODUCTION **1**
1.1 Site Location 1
1.2 Project Description 1

2 EXISTING CONDITIONS **5**
2.1 Overview 5
2.2 Electricity 8
2.3 Natural Gas 9
2.4 Transportation Energy Resources 12

3 REGULATORY BACKGROUND **15**
3.1 Federal Regulations 15
3.2 California Regulations 15

4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES **19**
4.1 Evaluation Criteria 19
4.2 Methodology 19
4.3 Construction Energy Demands 20
4.4 Operational Energy Demands 33
4.5 Summary 37

5 CONCLUSIONS **41**
5.1 Energy Impact 1 41
5.2 Energy Impact 2 42

6 REFERENCES **45**
7 CERTIFICATION **48**

APPENDICES

APPENDIX 4.1: CALEEMOD EMISSIONS MODEL OUTPUTS – CONSTRUCTION
APPENDIX 4.2: CALEEMOD MODEL OUTPUTS – OPERATION
APPENDIX 4.3: EMFAC2021
APPENDIX 4.4: CCAP SCREENING TABLES

LIST OF EXHIBITS

EXHIBIT 1-A: PROJECT LOCATION 2
EXHIBIT 1-B: PRELIMINARY LAND USE PLAN 3

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS 1
TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2024) 7
TABLE 2-2: SCE 2023 POWER CONTENT MIX 9
TABLE 4-1: CONSTRUCTION DURATION 20
TABLE 4-2: CONSTRUCTION POWER COST 21
TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE 22
TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS – PHASES 1, 2, AND 3 23
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES 24
TABLE 4-6: CONSTRUCTION TRIPS AND VMT 27
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES 29
TABLE 4-8: CONSTRUCTION VENDOR AND HAULING FUEL CONSUMPTION ESTIMATES 31
TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION 33
TABLE 4-10: EMERGENCY ENGINE FUEL CONSUMPTION ESTIMATES 34
TABLE 4-11: ON-SITE CARGO HANDLING EQUIPMENT FUEL CONSUMPTION ESTIMATES 35
TABLE 4-12: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY 35

LIST OF ABBREVIATED TERMS

%	Percent
(1)	Reference
APN	Assessor's Parcel Number
AQIA	Eucalyptus Business Park 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
CCAP	Community Climate Action Plan
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
City	City of Ontario
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
GHGA	Eucalyptus Business Park Specific Plan Greenhouse Gas Analysis
GWh	Gigawatt Hour
HHDT	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	Kilo British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1/LHDT2	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MM	Mitigation Measure
MMcfd	Million Cubic Feet Per Day
mpg	Miles Per Gallon
MPO	Metropolitan Planning Organization

PG&E	Pacific Gas and Electric
Project	Eucalyptus Business Park Specific Plan
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 Eucalyptus Business Park 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 5 of this report.

ES.3 PROJECT MITIGATION MEASURES (MMS)

GHG Mitigation Measures

MM GHG-1

Project development proposals pursuant to the EBPSP shall implement Community Climate Action Plan (CCAP) Screening Table Measures that achieve at least 100 points per the Screening Tables. The City shall verify that Screening Table Measures achieving the 100-point performance standard are incorporated in development plans prior to the issuance of building permit(s) and/or site plans (as applicable). The City shall verify implementation of the selected Screening Table Measures prior to the issuance of Certificate(s) of Occupancy. At the discretion of the City, measures that provide GHG reductions equivalent to GHG emissions reductions achieved via the Screening Table Measures may be implemented. Multiple development proposals may, at the discretion of the City, be allowed to collectively demonstrate achievement of at least 100 points per the Screening Tables.

AQIA Mitigation Measures

The following Project-specific mitigation measures were identified in the Eucalyptus Business Park Specific Plan Air Quality Impact Analysis Report (AQIA) (Urban Crossroads, Inc.) (2). Although these measures are designed to reduce Project air quality emissions, they would also assist in reducing Project energy consumption.

MM AQ-1

To facilitate the future installation of infrastructure that would charge the batteries that power the motors of electric-powered trucks, the following shall be installed: 1) prior to the shell building permit approval, an electrical room(s) and/or exterior area(s) of the site shall be designated where future electrical panels would be located for the purpose of supplying power to on-site charging facilities for electric powered trucks. Conduit shall be installed from this designated area where the panel would be located to the onsite location where the charging facilities would be located and where electric-powered trucks would park and connect to charging facilities to charge the batteries that power the motors of the electric-powered trucks; 2) prior to issuance of a building permit for tenant improvements, tenants that plan to operate electric trucks would be required to construct electrical charging infrastructure in addition to the required conduits.

MM AQ-2

In order to promote alternative fuels, and help support "clean" truck fleets, the developer/successor-in-interest shall provide building occupants with information related to SCAQMD's Carl Moyer Program, or other such programs that promote truck retrofits or "clean" vehicles and information including, but not limited to, the health effect of diesel particulates, benefits of reduced idling time, and CARB regulations. Tenants shall be notified about the availability of: 1) alternatively fueled cargo handling equipment; 2) grant programs for diesel-fueled vehicle engine retrofit and/or replacement; 3) access to alternative fueling stations proximate to the site that supply compressed natural gas; and 5) the United States Environmental Protection Agency's SmartWay program.

MM AQ-3

Idling Regulations. Prior to issuance of a certificate of occupancy, legible, durable, weather-proof signs shall be installed at truck access gates, loading docks, and truck parking areas that identify applicable California Air Resources Board (CARB) anti-idling regulations. At a minimum, each sign shall include the following instructions for truck drivers to shut off engines when not in use.

1. Instructions for drivers of diesel trucks to restrict idling to no more than five minutes once the vehicle is stopped, the transmission is set to "neutral" or "park" and the parking brake is engaged.
2. Telephone numbers of the building facilities manager and CARB to report violations.

MM AQ-4

All future operations shall adhere to the following:

1. Sites shall clearly mark entry and exit points for trucks and service vehicles.
2. Facility operators shall maintain records of their fleet equipment owned by the facility and ensure that all diesel-fueled Medium-Heavy Duty Trucks ("MHDT") and Heavy-Heavy Duty Trucks ("HHD") use year CARB 2010 or newer engines. The records should be maintained on-site and be made available for inspection by the lead agency.
3. Facility operators shall train their managers and employees on efficient scheduling and load management to eliminate unnecessary queuing and idling of trucks.
4. Signs should be posted in the appropriate locations and/or handouts should be provided that show the locations of nearest food options, fueling, truck maintenance services, and other similar convenience services.
5. Each Facility shall designate a Compliance Officer responsible for implementing the measures described herein and/or in the project conditions of approval and mitigation measures. Contact information shall be provided to the City and updated annually, and signs shall be posted in visible locations providing the contact information for the Compliance Officer to the surrounding community. The Compliance Officer also shall coordinate with CARB and SCAQMD to obtain the latest information about regional air quality concentrations, health risks, and trucking regulations.
6. Signs shall be posted in the appropriate locations heavy truck drivers to park and perform any self-maintenance of trucks in designated on-site areas and not within the surrounding community or on public streets.
7. The Project plans and specifications shall include signs at every truck exit driveway providing directional information to the truck route.

MM AQ-5

Electric Vehicle Charging and Future Truck Charging Capability. Prior to issuance of building permits, the following features shall be demonstrated on the Project's building plans to the extent feasible over minimum California Code of Regulations Title 24 requirements. Installation shall be verified by the City prior to issuance of a certificate of occupancy.

1. For use by employees and visitors conducting business at the building, install automobile electric vehicle (EV) charging stations at the minimum number required by the California Code of Regulations Title 24. All charging stations shall be equipped with Level 2 or faster chargers. Signs shall be posted indicating that the charging stations are for exclusive use by the building's employees and by visitors conducting business at the building.
2. Install appropriate electrical infrastructure sufficiently sized to accommodate the potential installation of additional auto and truck EV charging stations in the future.
3. Install raceways for conduit to tractor trailer parking areas in logical, gated locations determined by the Project Applicant during construction document plan check, for the purpose of accommodating the future installation of EV truck charging stations at such time this technology becomes commercially available. The charging station location(s) are to be located inside the gated and secured truck courts.

MM AQ-6

Water Efficient Fixtures. All water fixtures within the Project shall be water efficient (toilets/urinals (1.5 gallons per minute [gpm] or less), showerheads (2.0 gpm or less), and faucets (1.28 gpm or less)).

MM AQ-7

City Review of Construction Documents. Prior to issuance of building permits, the following features shall be demonstrated on the Project's building and landscape plans to the extent feasible. Installation shall be verified by the City prior to issuance of a certificate of occupancy.

1. Install Energy Star-rated heating, cooling, lighting, and appliances
2. Structures shall be equipped with outdoor electric outlets in the front and rear to facilitate use of electrical lawn and garden equipment.
3. Install rooftop solar energy systems which generate enough electricity to meet 45% of annual warehouse electricity demand.

MM AQ-8

Tenant Lease Agreement. Prior to issuance of a certificate of occupancy, the following language shall be included within tenant lease agreements in order to reduce operational air pollutant emissions to the extent feasible:

1. Information about energy efficiency, energy-efficient lighting and lighting control systems, energy management, and existing energy incentive programs.
2. Information about funding opportunities, such as the Carl Moyer Program, that provide incentives for using cleaner-than-required engines and equipment.
3. Requirements to use the cleanest technologies available and to provide the necessary infrastructure to support zero-emission vehicles, equipment, and appliances that would be operating on site at such time this technology becomes commercially available. This requirement shall apply to equipment such as forklifts, handheld landscaping equipment, yard trucks, office appliances, etc.

4. Requirements to exclusively use zero-emission light and medium-duty delivery trucks and vans, when economically feasible.

5. Requirements to operate in compliance with, and to monitor compliance with, all current and applicable air quality regulations for on-road trucks including the California Air Resources Board's Heavy-Duty (Tractor-Trailer) Greenhouse Gas Regulation, Periodic Smoke Inspection Program, and the Statewide Truck and Bus Regulation.

6. Requirements and identification of the responsible party to maintain, replace, and upgrade rooftop solar panels per the manufacturer's recommendations for the life of the lease. The proposed Project would comply with existing solar requirements per the California Energy Code in effect during permitting of the Project (at the time of Construction Drawing Plan Check Submittal). In the case that the tenant requires additional solar capacity, this shall be addressed during the tenant improvement process. The proposed Project would be required to meet the CCR Title 24 energy efficiency standards in effect during permitting of the proposed Project

7. Requirements and identification of the responsible party to maintain, replace, and repair the legible, durable, weather-proof signs that were installed at initial building occupancy placed at truck access gates, loading docks, and truck parking areas that identify applicable CARB anti-idling regulations.

8. The tenant agreement shall include notification that the tenant shall comply with CARB Truck and Bus regulation, including requirements that only haul trucks meeting model year 2010 engine emission standards shall be used for the on-road transport of materials to and from the Project site.

9. Requirements for the building owner to provide a Green Cleaning Products and Paint Education Program available to the building tenant, to keep at the building's office, break room, leasing space, or on an accessible website.

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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Eucalyptus Business Park Specific Plan (Project). The purpose of this report is to ensure that energy implication is considered by the City of Ontario (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 site is located generally south of Ontario Ranch Road, west of Walker Avenue, east of Campus Avenue, and north of Eucalyptus Avenue in the City of Ontario, as shown in Exhibit 1-A. Access to the proposed Project would be provided to the surrounding roadways of Campus Avenue, Eucalyptus Avenue, Bon View Avenue, Grove Avenue, and Walker Avenue.

1.2 PROJECT DESCRIPTION

The Project is to consist of a business park with mixed-use retail, a public animal shelter, and park use on approximately 189.0 acres and a total building footprint of 2,939,000 square feet (SF), and includes the following uses:

- Phase 1 (2028):
  - 340,700 SF Industrial Park
  - 553,300 SF Warehousing
  - 326,200 SF High-Cube Fulfillment Center (Sort)
  - 33.8-Acre Park
- Phase 2 (2029):
  - 273,700 SF Industrial Park
  - 553,300 SF Warehousing
  - 261,000 SF High-Cube Fulfillment Center (Sort)
  - 5,000 SF Retail
  - 5,000 SF Fast-Food Restaurant with Drive-Thru
  - 35,000 SF Public Animal Shelter
  - 37.7-Acre Park
- Phase 3 (2031):
  - 162,600 SF Industrial Park
  - 211,700 SF Manufacturing
  - 163,600 SF Warehousing
  - 47,900 SF High-Cube Fulfillment Center (Sort)
  - 21.0-Acre Park

Buildout of the proposed Project is anticipated to occur in 2031. A preliminary land use plan is presented in Exhibit 1-B.

EXHIBIT 1-A: PROJECT LOCATION

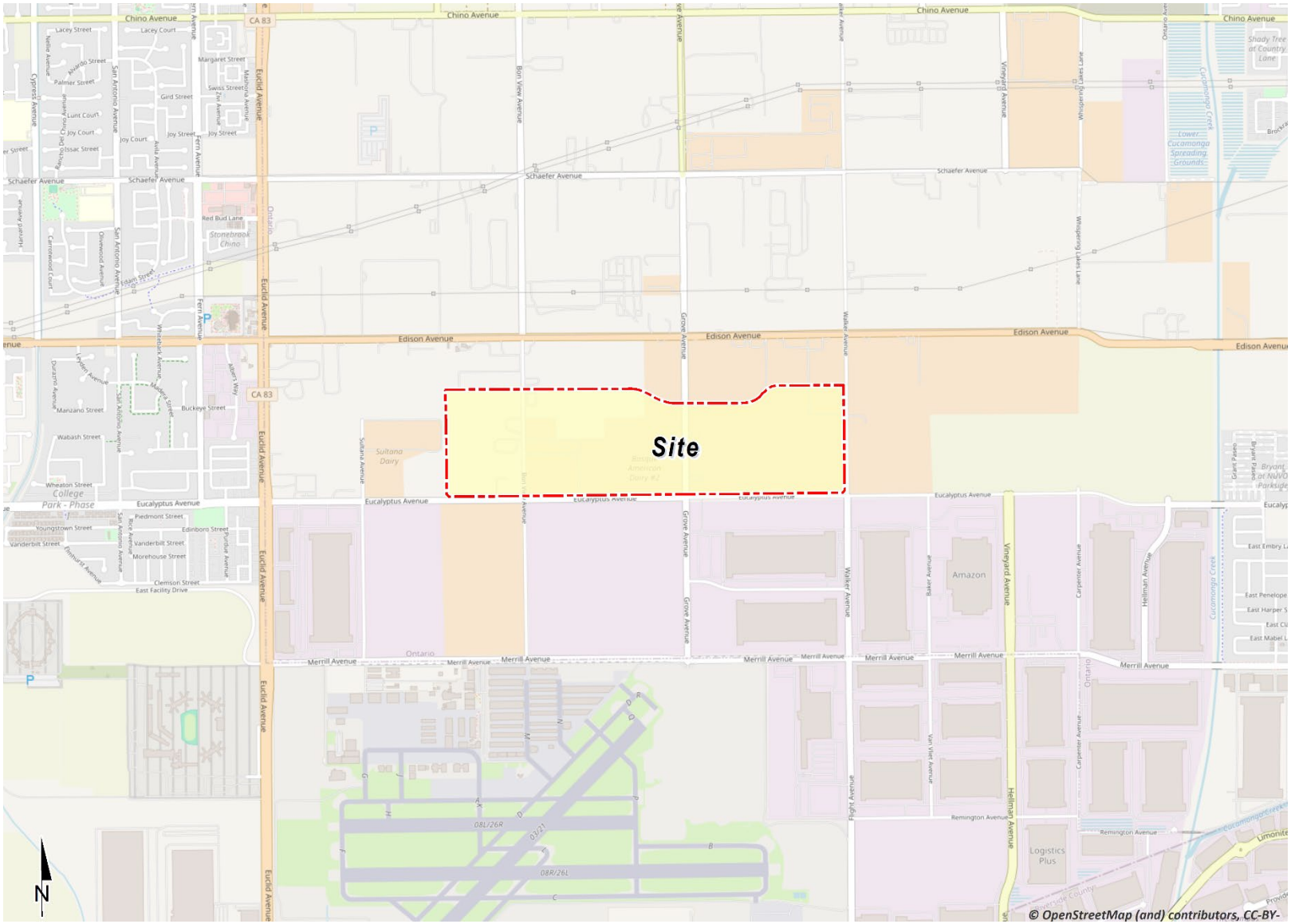
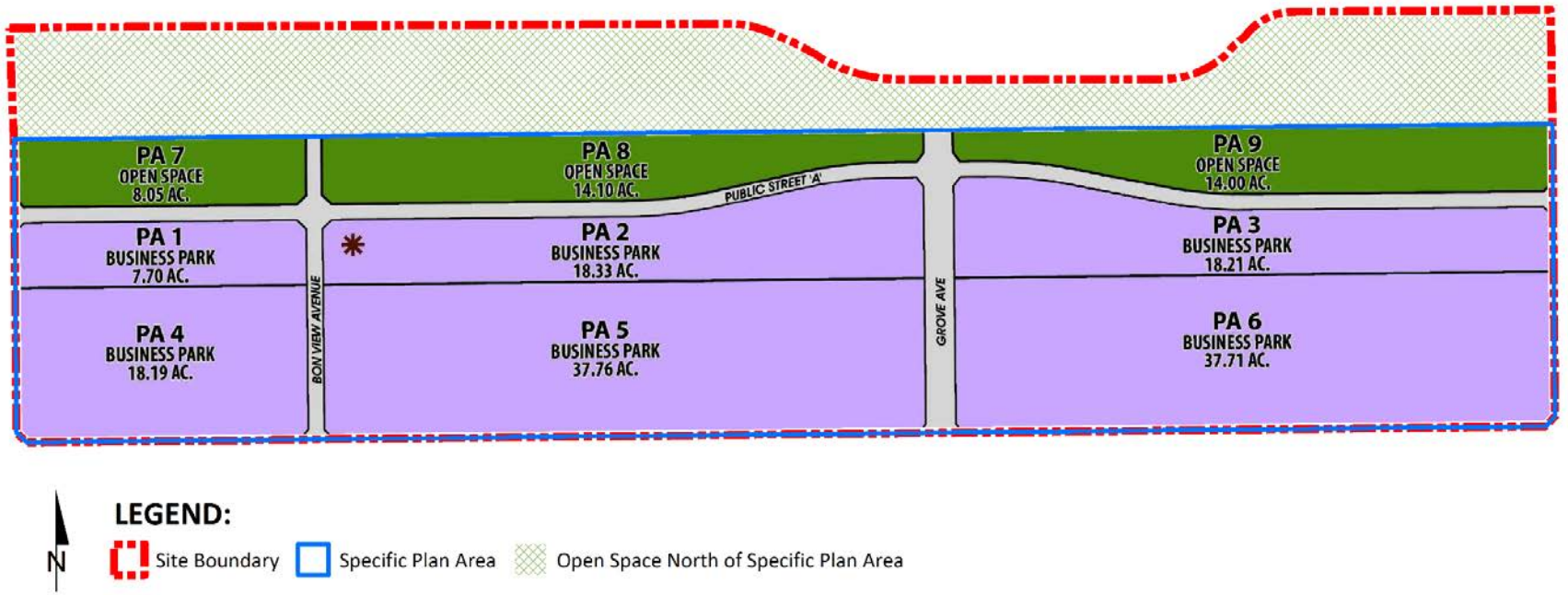


EXHIBIT 1-B: PRELIMINARY LAND USE PLAN



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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 2023, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates and includes (3):

- As of 2023, approximately 6,817 trillion British Thermal Unit (BTU) of energy was consumed
- As of 2023, approximately 648 million barrels of petroleum
- As of 2023, approximately 2,085 billion cubic feet of natural gas
- As of 2023, approximately 1,277 thousand short tons of coal

According to the EIA, in 2023 the U.S. petroleum consumption comprised about 89% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (4). In 2024, about 251,265 million gallons (or about 5,983 million barrels) of finished petroleum products were consumed in the U.S., an average of about 687 million gallons per day (or about 16.4 million barrels per day) (5). In 2021, California consumed approximately 12,147 million gallons in motor gasoline (33.31 million gallons per day) and approximately 3,541 million gallons of diesel fuel (9.7 million gallons per day) (6).

The most recent data provided by the EIA for energy use in California is reported from 2023, which shows approximate energy usage by each of the following sectors:

- 44.5% for transportation uses
- 21.4% for industrial uses
- 17.1% for residential uses
- 17.0% for commercial uses (7)

According to the EIA, California used approximately 239,480 million kilowatt hours (kWh) of electricity in 2023 (8). By sector in 2023, residential uses utilized 34.6% of the state's electricity, followed by 47.2% for commercial uses, 18.0% 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 (8).

According to the EIA, California used approximately 21,292 million therms of natural gas in 2023 (9). In 2023 (the most recent year for which data is available), by sector, industrial uses utilized 31.6% of the state's natural gas, followed by 31.3% used as fuel in the electric power sector, 22.8% from residential, 12.7% from commercial, 1.5% from transportation uses and the remaining 3% was utilized for the operations, processing and production of natural gas itself (9). 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 (9).

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%) (10). 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 (11):

- In 2024, California was the fourth-largest electricity producer in the nation. It is also the nation's third-largest electricity consumer and imports the second largest amount of electricity of any state.
- In 2024, California was the eighth-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, but its per capita energy consumption is the third-lowest in the nation.
- In 2024, renewable resources, including hydroelectric power and small-scale solar power, supplied 57% of California's in-state electricity generation. Natural gas fueled another 35% and nuclear power provided almost all the rest.

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 2024)

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	263	0.12%	124	5,775	5,899	6,162	2.21%
Natural Gas	86,479	40.00%	84	8,091	8,176	94,655	34.01%
Oil	36	0.02%	-	0	0	36	0.01%
Other (Waste Heat/Petroleum Coke)	198	0.09%	13	9	22	220	0.08%
Unspecified	-	0.00%	80	3,971	4,051	4,051	1.46%
Total Thermal and Unspecified	*86,976*	*40.23%*	*301*	*17,846*	*18,147*	*105,123*	*37.77%*
Nuclear	18,379	8.50%	208	9,026	9,234	27,613	9.92%
Large Hydro	25,222	11.67%	4,479	1,079	5,558	30,780	11.06%
Biomass	4,754	2.20%	614	26	640	5,394	1.94%
Geothermal	10,453	4.84%	212	2,139	2,351	12,803	4.60%
Small Hydro	3,969	1.84%	269	2	270	4,240	1.52%
Solar	50,666	23.44%	536	8,081	8,616	59,283	21.30%
Wind	15,761	7.29%	9,195	8,145	17,341	33,102	11.89%
Total Non-GHG and Renewable Resources	*129,205*	*59.77%*	*15,512*	*28,498*	*44,010*	*173,215*	*62.23%*
System Totals	*216,181*	*100.00%*	*15,813*	*46,344*	*62,157*	*278,338*	*100.00%*

Source: CECs 2024 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 2024 IEPR provides information and policy recommendations on advancing a clean, reliable, and affordable energy system (12).

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 (13).

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 2023 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 (14).

Table 2-2, SCE's specific proportional shares of electricity sources in 2023. As indicated in Table 2-2, the 2023 SCE Power Mix has renewable energy at 37.6% of the overall energy resources. Biomass

and waste resources are at 0.1%, geothermal resources are at 5.2%, eligible hydroelectric resources are at 0.7%, solar energy is at 19.8%, and wind power is at 11.7% (15).

TABLE 2-2: SCE 2023 POWER CONTENT MIX

Energy Resources	2023 SCE Power Mix
Eligible Renewable	37.6%
Biomass & Waste	0.1%
Geothermal	5.2%
Eligible Hydroelectric	0.7%
Solar	19.8%
Wind	11.7%
Coal	0.0%
Large Hydroelectric	4.5%
Natural Gas	20.0%
Nuclear	9.1%
Other	0.1%
Unspecified Sources of Power*	28.8%
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 commercial 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." (16)

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. On January 1, 2024, the Department of Motor Vehicles (DMV) reported 35.7 million registered vehicles in California, which, based on data from the 2021 version of the EMissions FACtor (EMFAC) model, are estimated to consume approximately 17.5 billion gallons of fuel annually (17).[1] Gasoline (and other vehicle fuels) are commercially provided commodities and would be available to the Project patrons and employees via commercial outlets.

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 (7). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel.

[1] Fuel consumptions estimated utilizing information from EMFAC2021.

California is the second-largest consumer of petroleum products, after Texas, and accounts for 9% of the nation's total consumption. The State is the largest U.S. consumer of jet fuel and the second largest U.S. consumer of motor gasoline. 86% of the petroleum consumed in California is used in the transportation sector (18).

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 2024, about 31% of the natural gas delivered to consumers went to the State's industrial sector, and about 30% was delivered to the electric power sector. Natural gas fueled more than two-fifths of the State's utility-scale electricity generation in 2024. 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 15% of the deliveries to end users and the transportation sector consumed the remaining 1% (18).

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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 United States Department of Transportation, the United States Department of Energy, and the United States Environmental Protection Agency (EPA) are three federal agencies with substantial influence over energy policies and programs. On the state level, the CPUC and the 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)

The 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 2024 IEPR was adopted September 2025, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2024 IEPR provides critical updates on California's energy future, focusing on several key areas. It includes an updated energy demand forecast, offering revised projections for electricity consumption and generation needs. Additionally,

the report evaluates the feasibility, costs, and potential benefits of wave and tidal energy resources in accordance with SB 605, which aims to explore alternative renewable energy sources for the state (19).

Compared to the 2023 IEPR, the 2024 update introduces new insights and considerations, particularly in the context of emerging renewable energy technologies like wave and tidal energy and further refines the demand forecasts. This edition provides a more comprehensive view of California's evolving energy landscape and the role of innovative resources in meeting future energy needs.

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 Title 24 Energy Efficiency Standards and California Green Building 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.

The 2022 California Title 24 Energy Standards became effective on January 1, 2023, with updates for the 2025 standards set to take effect on January 1, 2026. As the Project is expected to be completed in 2029, it will need to comply with the Title 24 Energy Standards in effect at that time, which may include further updates beyond the 2025 version.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2025 California Green Building Code Standards that go into effect on January 1, 2026. The Project would be required to comply with the applicable standards in place at the time plan check submittals are made.

3.2.4 AB 1493 Pavley Regulations and Fuel Efficiency Standards

California AB 1493, enacted on July 22, 2002, required California Air Resources Board (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.

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 (20).

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.

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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

Appendix F of the *State CEQA Guidelines* (21) 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* (22), 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 2022.1 outputs for the *Eucalyptus Business Park Specific Plan Air Quality Impact Analysis* (AQIA) (23) was utilized in this analysis, detailing Project-related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CalEEMod

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. 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 (24). 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 (EMFAC) 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 (25). On November 21, 2025, the United States Environmental Protection Agency approved the use of EMFAC 2021 off-model adjustment factors. These adjustment factors remove the estimated emission benefits that were attributed to California's Advanced Clean Trucks, Zero-Emission Airport Shuttle, Heavy-Duty Vehicle and Engine Emission Warranty and Maintenance Provisions, and Heavy Duty Omnibus regulations from EMFAC 2021. Because the preemption waivers for these regulations

no longer have effect, these regulations are no longer enforceable. It should be noted that these adjustment factors only apply to emissions of ROG, NO_X, PM_{10}, and $PM_{2.5}$. Any effects on fuel efficiency are unknown and unquantifiable at this time.

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 2027 through 2031 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project. Output from the EMFAC2021 model run is provided in Appendix 4.3.

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, Project construction will begin in January 2027 and would last through June 2031 (23). The construction schedule utilized in the analysis, shown in Table 4-1, represents 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* (26).

Table 4-1: Construction Duration

Phase	Construction Activity	Start Date	End Date	Days
1	Demolition	1/1/2027	2/18/2027	35
	Site Preparation	2/19/2027	3/18/2027	20
	Grading	3/19/2027	6/3/2027	55
	Building Construction	6/4/2027	6/30/2028	281
	Paving	1/8/2028	6/30/2028	125
	Architectural Coating	1/8/2028	6/30/2028	125
2	Demolition	7/1/2028	8/18/2028	35
	Site Preparation	8/19/2028	9/15/2028	20
	Grading	9/16/2028	12/1/2028	55
	Building Construction	12/2/2028	12/31/2029	281
	Paving	7/10/2029	12/31/2029	125
	Architectural Coating	7/10/2029	12/31/2029	125
3	Demolition	1/1/2030	2/18/2030	35
	Site Preparation	2/19/2030	3/18/2030	20
	Grading	3/19/2030	6/3/2030	55

	Building Construction	6/4/2030	6/30/2031	280
	Paving	2/11/2031	6/30/2031	100
	Architectural Coating	2/11/2031	6/30/2031	100

Project Construction Power Cost

The *2025 National Construction Estimator* identifies a typical power cost per 1,000 sf of construction per month of $2.85, which was used to calculate the Project's total construction power cost (27). As shown in Table 4-2, the total power cost of on-site electricity usage during the building construction of the Project is estimated to be approximately $150,770.70.

TABLE 4-2: CONSTRUCTION POWER COST

Phase	Land Use	Power Cost[1]	Total Building Size (1,000 SF)	Construction Duration (months)	Total Project Construction Power Cost
1	Industrial Park	$2.85	340.700	18	$17,477.91
	Warehousing	$2.85	553.300	18	$28,384.29
	High-Cube Fulfillment Center (Sort)	$2.85	326.200	18	$16,734.06
				Phase 1 Construction Cost	$62,596.26
2	Industrial Park	$2.85	273.700	18	$14,040.81
	Warehousing	$2.85	553.300	18	$28,384.29
	High-Cube Fulfillment Center (Sort)	$2.85	261.000	18	$13,389.30
	Retail	$2.85	5.000	18	$256.50
	Fast-Food Restaurant with Drive-Thru	$2.85	5.000	18	$256.50
	Public Animal Shelter	$2.85	35.000	18	$1,795.50
				Phase 2 Construction Cost	$58,122.90
3	Industrial Park	$2.85	162.600	18	$8,341.38
	Manufacturing	$2.85	211.700	18	$10,860.21
	Warehousing	$2.85	163.600	18	$8,392.68
	High-Cube Fulfillment Center (Sort)	$2.85	47.900	18	$2,457.27
				Phase 3 Construction Cost	$30,051.54
				Total Project Construction Cost	$150,770.70

[1] Per 1,000 SF of building per month of construction

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 4-2) by the utility provider cost per kWh of electricity.

Project Construction Electricity Usage

The SCE's general service rate schedule was used to determine the Project's electrical usage. As of June 1, 2025, SCE's general service rate is $0.17 per kWh of electricity for industrial uses (28). As shown in Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 886,886 kWh.

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Phase	Land Use	Cost per kWh	Total Project Construction Electricity Usage (kWh)
1	Industrial Park	$0.17	102,811
	Warehousing	$0.17	166,966
	High-Cube Fulfillment Center (Sort)	$0.17	98,436
	Phase 1 Construction Electricity Usage (kWh)		368,213
2	Industrial Park	$0.17	82,593
	Warehousing	$0.17	166,966
	High-Cube Fulfillment Center (Sort)	$0.17	78,761
	Retail	$0.17	1,509
	Fast-Food Restaurant with Drive-Thru	$0.17	1,509
	Public Animal Shelter	$0.17	10,562
	Phase 2 Construction Electricity Usage (kWh)		341,899
3	Industrial Park	$0.17	49,067
	Manufacturing	$0.17	63,884
	Warehousing	$0.17	49,369
	High-Cube Fulfillment Center (Sort)	$0.17	14,455
	Phase 3 Construction Electricity Usage (kWh)		176,774
Total Project Construction Electricity Usage (kWh)			886,886

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

A summary of construction equipment assumptions by phase is provided at Table 4-4. Consistent with industry standards and typical construction practices, each piece of equipment listed in Table 4-4 will operate up to a total of eight (8) hours per day. It is assumed that Phases 1, 2, and 3 would each utilize the same types and quantities of equipment.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS – PHASES 1, 2, AND 3

Construction Activity	Equipment	Quantity	Hours
Demolition	Tractors/Loaders/Backhoes	6	8
	Excavators	2	8
	Other Material Handling Equipment	2	8
	Off-Highway Trucks	2	8
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	4	8
Grading	Graders	4	8
	Excavators	2	8
	Rubber Tired Dozers	4	8
	Off-Highway Trucks	2	8
	Crawler Tractors	2	8
Building Construction	Forklifts	3	8
	Generator Sets	2	8
	Cranes	2	8
	Welders	2	8
	Tractors/Loaders/Backhoes	3	8
Paving	Pavers	2	8
	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	3	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 4-5. 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 (29). 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 industrial fuel providers serving the Project area and region.[2] As presented in Table 4-5, Project construction activities would consume an estimated total of 311,914 gallons of diesel fuel. Project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

[2] 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

Phase	Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
1	Demolition	35	Tractors/Loaders/Backhoes	84	6	8	0.37	1,492	2,822
			Excavators	36	2	8	0.38	219	414
			Other Material Handling Equipment	93	2	8	0.4	595	1,126
			Off-Highway Trucks	376	2	8	0.38	2,286	4,325
	Site Preparation	20	Rubber Tired Dozers	367	3	8	0.4	3,523	3,809
			Crawler Tractors	87	4	8	0.37	1,030	1,114
	Grading	55	Graders	148	4	8	0.41	1,942	5,773
			Excavators	36	2	8	0.38	219	651
			Rubber Tired Dozers	367	4	8	0.4	4,698	13,966
			Off-Highway Trucks	376	2	8	0.38	2,286	6,796
			Crawler Tractors	87	2	8	0.43	599	1,780
	Building Construction	281	Forklifts	82	3	8	0.2	394	5,978
			Generator Sets	14	2	8	0.74	166	2,518
			Cranes	367	2	8	0.29	1,703	25,865
			Welders	46	2	8	0.45	331	5,031
			Tractors/Loaders/Backhoes	84	3	8	0.37	746	11,330
	Paving	125	Pavers	81	2	8	0.42	544	3,678
			Paving Equipment	89	2	8	0.36	513	3,464
			Rollers	36	2	8	0.38	219	1,479
	Architectural Coating	125	Air Compressors	37	3	8	0.48	426	2,880
							Phase 1 Construction Fuel Demand (Gallons Fuel)		104,798
2	Demolition	35	Tractors/Loaders/Backhoes	84	6	8	0.37	1,492	2,822
			Excavators	36	2	8	0.38	219	414
			Other Material Handling Equipment	93	2	8	0.4	595	1,126
			Off-Highway Trucks	376	2	8	0.38	2,286	4,325
	Site Preparation	20	Rubber Tired Dozers	367	3	8	0.4	3,523	3,809
			Crawler Tractors	87	4	8	0.37	1,030	1,114

Phase	Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
	Grading	55	Graders	148	4	8	0.41	1,942	5,773
			Excavators	36	2	8	0.38	219	651
			Rubber Tired Dozers	367	4	8	0.4	4,698	13,966
			Off-Highway Trucks	376	2	8	0.38	2,286	6,796
			Crawler Tractors	87	2	8	0.43	599	1,780
	Building Construction	281	Forklifts	82	3	8	0.2	394	5,978
			Generator Sets	14	2	8	0.74	166	2,518
			Cranes	367	2	8	0.29	1,703	25,865
			Welders	46	2	8	0.45	331	5,031
			Tractors/Loaders/Backhoes	84	3	8	0.37	746	11,330
	Paving	125	Pavers	81	2	8	0.42	544	3,678
			Paving Equipment	89	2	8	0.36	513	3,464
			Rollers	36	2	8	0.38	219	1,479
	Architectural Coating	125	Air Compressors	37	3	8	0.48	426	2,880
				Phase 2 Construction Fuel Demand (Gallons Fuel)					104,798
3	Demolition	35	Tractors/Loaders/Backhoes	84	6	8	0.37	1,492	2,822
			Excavators	36	2	8	0.38	219	414
			Other Material Handling Equipment	93	2	8	0.4	595	1,126
			Off-Highway Trucks	376	2	8	0.38	2,286	4,325
	Site Preparation	20	Rubber Tired Dozers	367	3	8	0.4	3,523	3,809
			Crawler Tractors	87	4	8	0.37	1,030	1,114
	Grading	55	Graders	148	4	8	0.41	1,942	5,773
			Excavators	36	2	8	0.38	219	651
			Rubber Tired Dozers	367	4	8	0.4	4,698	13,966
			Off-Highway Trucks	376	2	8	0.38	2,286	6,796
			Crawler Tractors	87	2	8	0.43	599	1,780
	Building Construction	280	Forklifts	82	3	8	0.2	394	5,957
			Generator Sets	14	2	8	0.74	166	2,509

Phase	Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP-hrs/day	Total Fuel Consumption
			Cranes	367	2	8	0.29	1,703	25,773
			Welders	46	2	8	0.45	331	5,013
			Tractors/Loaders/Backhoes	84	3	8	0.37	746	11,290
	Paving	100	Pavers	81	2	8	0.42	544	2,942
			Paving Equipment	89	2	8	0.36	513	2,771
			Rollers	36	2	8	0.38	219	1,183
	Architectural Coating	100	Air Compressors	37	3	8	0.48	426	2,304
								Phase 3 Construction Fuel Demand (Gallons Fuel)	102,317
								Total Project Construction Fuel Demand (Gallons Fuel)	311,914

4.3.4 Construction Trips and VMT

Construction generates on-road vehicle emissions from vehicle usage for workers and vendors 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	Hauling Trips Per Day
1	Demolition	30	16	7
	Site Preparation	18	9	0
	Grading	35	25	115
	Building Construction	742	127	0
	Paving	15	57	0
	Architectural Coating	148	57	0
2	Demolition	30	10	4
	Site Preparation	18	6	0
	Grading	35	16	170
	Building Construction	472	82	0
	Paving	15	36	0
	Architectural Coating	94	36	0
3	Demolition	30	6	7
	Site Preparation	18	3	0
	Grading	35	9	170
	Building Construction	246	46	0
	Paving	15	16	0
	Architectural Coating	49	16	0

4.3.5 Construction Worker Fuel Estimates

With respect to estimated VMT for the Project, the construction worker trips would generate an estimated 8,323,705 VMT during the 54 months of construction (23). Based on CalEEMod methodology, it is assumed that 50% of all worker trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1[3]), and 25% are from light-duty-trucks (LDT2[4]). 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

[3] 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.

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

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 (25). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the California sub-area for the 2027 through 2031 calendar years. Data from EMFAC2021 is shown in Appendix 4.3.

Table 4-7 provides an estimated annual fuel consumption resulting from Project construction worker trips. Based on Table 4-7, it is estimated that 269,810 gallons of fuel will be consumed related to construction worker trips during full construction of the Project. For a conservative analysis, two-way worker trips are estimated in Table 4-7 to account for the annual fuel consumption. It should be noted that construction worker trips would represent a "single-event" gasoline fuel demand and would not require on-going or permanent commitment of fuel resources for this purpose.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Phase	Construction Activity	Duration (Days)	Worker Trips / Day	Trip Length (miles)	Vehicle Miles Traveled	Average Vehicle Fuel Economy (mpg)			Estimated Fuel Consumption (gallons)
						LDA	LDT1	LDT2	
1 (2027)	Demolition	35	30	18.5	19,425	34.38	26.20	26.60	651
	Site Preparation	20	18	18.5	6,660	34.38	26.20	26.60	223
	Grading	55	35	18.5	35,613	34.38	26.20	26.60	1,193
	Building Construction	151	743	18.5	2,075,571	34.38	26.20	26.60	69,508
1 (2028)	Building Construction	130	743	18.5	1,786,915	35.24	26.75	27.21	58,468
	Paving	125	15	18.5	34,688	35.24	26.75	27.21	1,135
	Architectural Coating	125	57	18.5	131,813	35.24	26.75	27.21	4,313
2 (2028)	Demolition	35	30	18.5	19,425	35.24	26.75	27.21	636
	Site Preparation	20	18	18.5	6,660	35.24	26.75	27.21	218
	Grading	55	35	18.5	35,613	35.24	26.75	27.21	1,165
	Building Construction	20	472	18.5	174,640	35.24	26.75	27.21	5,714
2 (2029)	Building Construction	261	472	18.5	2,279,052	36.07	27.31	27.78	72,963
	Paving	125	15	18.5	34,688	36.07	27.31	27.78	1,111
	Architectural Coating	125	95	18.5	219,688	36.07	27.31	27.78	7,033
3 (2030)	Demolition	35	30	18.5	19,425	36.86	27.86	28.31	609
	Site Preparation	20	18	18.5	6,660	36.86	27.86	28.31	209
	Grading	55	35	18.5	35,613	36.86	27.86	28.31	1,117
	Building Construction	151	247	18.5	689,995	36.86	27.86	28.31	21,643
3 (2031)	Building Construction	129	247	18.5	589,466	37.60	28.40	28.80	18,143
	Paving	100	16	18.5	29,600	37.60	28.40	28.80	911
	Architectural Coating	100	50	18.5	92,500	37.60	28.40	28.80	2,847
PHASE 1 CONSTRUCTION WORKER FUEL CONSUMPTION									135,490
PHASE 2 CONSTRUCTION WORKER FUEL CONSUMPTION									88,840
PHASE 3 CONSTRUCTION WORKER FUEL CONSUMPTION									45,480
TOTAL PHASE 1, 2, AND 3 CONSTRUCTION WORKER FUEL CONSUMPTION									269,810

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 hauling trips (export/import of demolition debris and soil) would generate an estimated 1,557,148 VMT along area roadways for the Project over the duration of construction activity (23). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHDT) and 50% of vendor trips are from heavy-heavy duty trucks (HHDT). All hauling trips were assumed to be performed by HHDT vehicles. These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (23). Vehicle fuel efficiencies for MHDTs and HHDTs were estimated using information generated within EMFAC2021. EMFAC2021 was run for the MHDT and HHDT vehicle classes within the California sub-area for the 2027 through 2031 calendar years. Data from EMFAC2021 is shown in Appendix 4.3.

As shown in Table 4-8, it is estimated that 214,130 gallons of fuel will be consumed related to construction vendor and hauling trips during full construction of the Project. For a conservative analysis, two-way vendor trips are estimated in Table 4-8 to account for the annual fuel consumption. 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 AND HAULING FUEL CONSUMPTION ESTIMATES

Phase	Construction Activity	Duration (Days)	Trips/Day		Trip Length (miles)		Vehicle Miles Traveled		Average Vehicle Fuel Economy (mpg)		Estimated Fuel Consumption (gallons)
			Vendor	Hauling	Vendor	Hauling	Vendor	Hauling	MHDT	HHDT	
1 (2027)	Demolition	35	16	7	10.2	20.0	5,712	4,900	8.73	6.37	1,545
	Site Preparation	20	9	0	10.2	20.0	1,836	0	8.73	6.37	249
	Grading	55	25	115	10.2	20.0	14,025	126,500	8.73	6.37	21,769
	Building Construction	151	127	0	10.2	20.0	195,605	0	8.73	6.37	26,555
1 (2028)	Building Construction	130	127	0	10.2	20.0	168,402	0	8.95	6.52	22,331
	Paving	125	57	0	10.2	20.0	72,675	0	8.95	6.52	9,637
	Architectural Coating	125	57	0	10.2	20.0	72,675	0	8.95	6.52	9,637
2 (2028)	Demolition	35	10	4	10.2	20.0	3,570	2,800	8.95	6.52	903
	Site Preparation	20	6	0	10.2	20.0	1,224	0	8.95	6.52	162
	Grading	55	16	170	10.2	20.0	8,976	187,000	8.95	6.52	29,882
	Building Construction	20	82	0	10.2	20.0	16,728	0	8.95	6.52	2,218
2 (2029)	Building Construction	261	82	0	10.2	20.0	218,300	0	9.22	6.68	28,178
	Paving	125	36	0	10.2	20.0	45,900	0	9.22	6.68	5,925
	Architectural Coating	125	36	0	10.2	20.0	45,900	0	9.22	6.68	5,925
3 (2030)	Demolition	35	6	8	10.2	20.0	2,142	5,600	9.56	6.86	1,085
	Site Preparation	20	3	0	10.2	20.0	612	0	9.56	6.86	77
	Grading	55	9	170	10.2	20.0	5,049	187,000	9.56	6.86	27,901
	Building Construction	151	46	0	10.2	20.0	70,849	0	9.56	6.86	8,872
3 (2031)	Building Construction	129	46	0	10.2	20.0	60,527	0	9.98	7.05	7,327
	Paving	100	16	0	10.2	20.0	16,320	0	9.98	7.05	1,976
	Architectural Coating	100	16	0	10.2	20.0	16,320	0	9.98	7.05	1,976
PHASE 1 CONSTRUCTION WORKER FUEL CONSUMPTION											91,724
PHASE 2 CONSTRUCTION WORKER FUEL CONSUMPTION											73,193
PHASE 3 CONSTRUCTION WORKER FUEL CONSUMPTION											49,213
TOTAL PHASE 1, 2, AND 3 CONSTRUCTION WORKER FUEL CONSUMPTION											214,130

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 regulation 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, the 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 energy demands (energy 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 Energy 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 vendor trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2021 developed by CARB (25). EMFAC2021 was run for the San Bernardino (SC) area for the 2031 calendar year. Data from EMFAC2021 is shown in Appendix 4.3.

As summarized in Table 4-9, the Project would result in 149,966,679 annual VMT and an estimated annual fuel consumption of 4,213,944 gallons of fuel.

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

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual VMT	Estimated Annual Fuel Consumption (gallons)
1	HHD	6.52	5,680,409	871,546
	LDA	35.24	8,265,724	234,538
	LDT1	26.75	624,188	23,333
	LDT2	27.21	3,598,905	132,259
	LHD1	17.54	1,200,858	68,464
	LHD2	16.31	329,683	20,215
	MCY	42.59	344,333	8,084
	MDV	22.21	2,540,937	114,396
	MH	5.84	1,007	172
	MHD	8.95	1,896,484	211,997
	OBUS	6.65	150	22
	SBUS	6.54	273	42
	UBUS	5.58	77	14
	Phase 1 Annual Fuel Consumption (All Vehicles)			1,685,084
1 + 2	HHD	6.68	10,920,883	1,634,459
	LDA	36.07	20,360,883	564,455
	LDT1	27.31	1,507,926	55,221
	LDT2	27.78	9,049,630	325,733
	LHD1	18.11	2,576,057	142,282
	LHD2	16.77	708,653	42,257
	MCY	42.72	846,584	19,817
	MDV	22.73	6,271,591	275,911

Phase	Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual VMT	Estimated Annual Fuel Consumption (gallons)
	MH	5.87	43,411	7,396
	MHD	9.22	3,791,904	411,397
	OBUS	6.82	6,653	975
	SBUS	6.59	12,263	1,860
	UBUS	5.95	3,464	583
	Phase 1+2 Annual Fuel Consumption (All Vehicles)			3,482,345
1 + 2 + 3 (Buildout)	HHD	7.05	14,415,621	2,045,487
	LDA	37.60	24,236,637	644,590
	LDT1	28.40	1,732,817	61,008
	LDT2	28.80	11,182,012	388,233
	LHD1	19.42	3,313,118	170,592
	LHD2	17.87	911,615	51,011
	MCY	42.97	1,001,770	23,313
	MDV	23.68	7,514,489	317,315
	MH	5.91	40,305	6,816
	MHD	9.98	5,013,155	502,423
	OBUS	7.21	6,512	903
	SBUS	6.76	12,243	1,811
	UBUS	7.82	3,455	442
	Phase 1+2+3 Annual Fuel Consumption (All Vehicles)			4,213,944

4.4.2 Emergency Engine Fuel Demands

The proposed Project was conservatively assumed to include a total of two emergency fire pumps in Phase 1, four emergency fire pumps in Phase 2, and five emergency fire pumps in Phase 3. Each emergency fire pump was assumed to be diesel-fueled and rated at 220 brake horsepower. Each fire pump was assumed 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. As presented in Table 4-10, emergency engine operation for maintenance and testing purposes would consume an estimated 2,070 gallons of diesel fuel per year at buildout.

TABLE 4-10: EMERGENCY ENGINE FUEL CONSUMPTION ESTIMATES

Phase	Equipment	Quantity	Horsepower	Fuel Consumption (gal./hour)	Activity (hrs./yr)	Total Fuel Consumption (gal./yr)
1	Fire Pump	2	220	8.28	50	828
1 + 2	Fire Pump	4	220	8.28	50	1,656
1 + 2 + 3	Fire Pump	5	220	8.28	50	2,070

4.4.3 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. The analysis assumed the operation of five pieces of equipment in Phase 1, nine pieces of equipment in Phase 2, and a total of eleven pieces of equipment in Phase 3[5]. Each piece of equipment was modeled as a 175-horsepower natural gas-powered port tractor and assumed to operate 4 hours a day[6] for 365 days of the year. As shown below on Table 4-11, on-site operational cargo handling equipment is estimated to consume approximately 51,071 gallons of fuel per year at buildout.

TABLE 4-11: ON-SITE CARGO HANDLING EQUIPMENT FUEL CONSUMPTION ESTIMATES

Phase	Equipment	Quantity	Usage Hours	Fuel Consumption (gals./hr.)	Activity (hrs./yr)	Total Fuel Consumption (gal.yr)
1	Port Tractor	5	4	3.18	7,300	23,214
1 + 2	Port Tractor	9	4	3.18	13,140	41,785
1 + 2 + 3	Port Tractor	11	4	3.18	16,060	51,071

4.4.4 Facility Energy Demands

Project building operations activities would result in the consumption of electricity, which would be supplied to the Project through rooftop solar as well as by SCE. As summarized in Table 4-12, the Project would result in 15,807,558 kWh/year of electricity demand at buildout. Based on information provided by the Project Applicant, the Project would not use natural gas for the building envelope. As such, natural gas consumption has not been analyzed in this study.

TABLE 4-12: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

Phase	Energy Type	Natural Gas (kBTU/year)	Electricity (kWh/year)
1	Industrial Park	0	5,945,858
	Warehousing	0	2,555,528
	High-Cube Fulfillment Center (Sort)	0	1,506,621
	Parking Lot	0	469,465
	Solar Photovoltaic	*0*	*-4,503,603*
	Phase 1 Total	0	5,973,869
1 + 2	Industrial Park	0	10,722,440
	Warehousing	0	5,111,057
	High-Cube Fulfillment Center (Sort)	0	2,712,102
	Retail	0	48,642
	Fast-Food Restaurant with Drive-Thru	0	175,333

[5] Based on SCAQMD's April 2021 Second Draft Report for Rule 2305, it is estimated that warehouses operate an average of 3.6 yard trucks per million square feet of warehouse space.

[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.

Phase	Energy Type	Natural Gas (kBTU/year)	Electricity (kWh/year)
	Public Animal Shelter	0	1,033,091
	Parking Lot	0	905,960
	Solar Photovoltaic	*0*	*-8,345,520*
	Phase 1 + 2 Total	0	12,363,105
1 + 2 + 3	Industrial Park	0	13,560,117
	Manufacturing	0	2,019,136
	Warehousing	0	5,866,677
	High-Cube Fulfillment Center (Sort)	0	2,933,338
	Retail	0	48,642
	Fast-Food Restaurant with Drive-Thru	0	175,333
	Public Animal Shelter	0	1,033,091
	Parking Lot	0	1,141,895
	Solar Photovoltaic	*0*	*-10,970,671*
	Phase 1 + 2 + 3 Total	0	15,807,558

4.4.3 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).

The Project incorporates a series of measures that generally reduce energy demand associated with the Project. As previously stated, the Project will comply with Title 24 Standards which include incorporating contemporary design features such as photovoltaic systems or renewable energy. Specifically, the Project would install rooftop solar systems to offset 45% of the warehouse electrical demands.

The Project would also not result in a substantial increase in demand for transmission service, resulting in the need for new or expanded sources of energy supply or new or expanded energy delivery systems or infrastructure (other than site-adjacent and on-site connects to local utilities).

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. The Project's location near regional and local road networks helps decrease VMT in the area, which in turn reduces the overall energy demand for vehicles in the region.

4.5 SUMMARY

4.5.1 Construction Energy Demands

The estimated power cost of on-site electricity usage during the building construction of the Project is assumed to be approximately $150,770.70. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be approximately 886,886 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 311,914 gallons of diesel fuel. 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 269,810 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDTs and HHDTs) and hauling trips (HHDTs) will total approximately 214,130 gallons. Diesel fuel would be supplied by City and regional industrial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 2024 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 (30). As supported by the preceding discussions, Project construction energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

4.5.2 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 4,213,944 gallons of fuel.

Fuel would be provided by current and future industrial 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 percent 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 (31).
- 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.

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. The Project's location near regional and local road networks helps decrease VMT in the area, which in turn reduces the overall energy demand for vehicles in the region. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

On-Site Cargo Handling Equipment Fuel Demands

The analysis assumed the operation of five pieces of equipment in Phase 1, nine pieces of equipment in Phase 2, and a total of eleven pieces of equipment in Phase 3. On-site operational cargo handling equipment is estimated to consume approximately 51,071 gallons of fuel per year at buildout.

Emergency Engine Fuel Demands

The proposed Project was conservatively assumed to include a total of two emergency fire pumps in Phase 1, four emergency fire pumps in Phase 2, and five emergency fire pumps in Phase 3. Emergency engine operation for maintenance and testing purposes would consume an estimated 2,070 gallons of diesel fuel per year at buildout.

Facility Energy Demands

Project facility operational energy demands are estimated to result in 15,807,558 kWh per year of electricity demand for the Project, which would be supplied by rooftop solar and SCE. Based on information provided by the Project Applicant, the Project would not use natural gas for the building envelope. As such, natural gas consumption has not been analyzed in this study. 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.

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?

Impact Analysis

A significant impact would occur if the proposed Project would result in the inefficient, wasteful, or unnecessary use of energy.

Construction

Based on CalEEMod estimations within the modeling output, construction-related vehicle trips would result in approximately 9,880,853 VMT and consume an estimated 483,940 gallons of gasoline and diesel combined during construction. Additionally, on-site construction equipment would consume an estimated 311,914 gallons of diesel fuel. Limitations on idling of vehicles and equipment and requirements that equipment be properly maintained would result in fuel savings. California Code of Regulations, Title 13, Sections 2449 and 2485, limit idling from both on-road and off-road diesel-powered equipment and are enforced by the CARB. Additionally, given the cost of fuel, contractors and owners have a strong financial incentive to avoid wasteful, inefficient, and unnecessary consumption of energy during construction.

Due to the temporary nature of construction and the financial incentives for developers and contractors to use energy-consuming resources in an efficient manner, the construction phase of the proposed Project would not result in wasteful, inefficient, and unnecessary consumption of energy. Therefore, the construction-related impacts related to electricity and fuel consumption would be less than significant.

Operation

Electricity and Natural Gas

Operation of the proposed Project would consume energy as part of building operations and transportation activities including passenger vehicle traffic. Building operations would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, refrigeration, lighting, and electronics. Based on CalEEMod energy use estimations, operations for the Project would result in approximately 15,807,558 kWh/year of electricity demand annually.

The proposed Project would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the California Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24 Lighting Power Density requirements define the maximum wattage of lighting that can be used in a building based on its square footage. Title 24 standards are widely regarded as the most advanced energy efficiency standards and would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation.

Fuel

Operational energy would also be consumed during vehicle trips associated with the proposed Project. Fuel consumption would be primarily related to vehicle use by visitors and employees associated with the Project. Based on CalEEMod energy use estimations, project-related vehicle trips would result in approximately 21,283,571 VMT and consume an estimated 1,587,414 gallons of gasoline and diesel combined, annually (see Appendix 4.3).

The Project is within close proximity of existing land uses that would provide future employees access to facilities such as residents, restaurants, a gas station, and other commercial uses, which would further reduce fuel consumption demand. For these reasons, operational-related transportation fuel consumption would not result in a significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources. Therefore, the operational impact related to vehicle fuel consumption would be less than significant.

5.2 ENERGY IMPACT 2

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

Impact Analysis

A significant impact would occur if the proposed Project would conflict with or obstruct a State or local plan for renewable energy or energy efficiency.

Construction

As discussed in Section 5.1 above, the proposed Project would result in energy consumption through the combustion of fossil fuels in construction vehicles, worker commute vehicles, and construction equipment, and the use of electricity for temporary buildings used during construction, lighting, and other sources. California Code of Regulations Title 13, Sections 2449 and 2485, limit idling from both on-road and off-road diesel-powered equipment and are enforced by the ARB. The proposed Project would comply with these regulations. There are no policies at the local level applicable to energy conservation specific to the construction phase. Thus, it is anticipated that construction of the proposed Project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, construction-related energy efficiency and renewable energy standards consistency impacts would be less than significant.

Operation

The proposed Projects would be designed and constructed in accordance with the City's latest adopted energy efficiency standards, which are based on the California Title 24 energy efficiency standards. Title 24 standards include a broad set of energy conservation requirements that apply to the structural, mechanical, electrical, and plumbing systems in a building. For example, the Title 24 Lighting Power Density requirements define the maximum wattage of lighting that can be used in a building based on its square footage. Title 24 standards, widely regarded as the most advanced energy efficiency standards, would help reduce the amount of energy required for lighting, water heating, and heating and air conditioning in buildings and promote energy conservation.

Compliance with the aforementioned mandatory measures would ensure that the proposed Project would not conflict with any applicable plan, policy, or regulation adopted for the purpose of reducing energy use or increasing the use of renewable energy. Therefore, operational energy efficiency and renewable energy standards consistency impacts would be less than significant.

Additionally, as required under MM GHG-1, the proposed Project is required to implement Screening Table Measures to achieve the requisite points required under the City's CCAP Screening Tables. While these measures are designed to reduce GHG emissions, implementation of these measures would also serve to reduce the Project's energy consumption, both through energy efficiency and the generation of renewable energy. It is preliminarily estimated that the Project would be required to achieve at least 100 Screening Table points to ensure compliance with the CCAP. Appendix 4.4 presents the CCAP Screening Tables with a preliminary estimate of the measures anticipated to be implemented by the Project to achieve at least 100 Screening Table points.

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7 CERTIFICATION

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Eucalyptus Business Park Specific Plan Project. 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.

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AWMA – Air and Waste Management Association
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Professional Certifications

Planned Communities and Urban Infill – Urban Land Institute • June, 2011
Indoor Air Quality and Industrial Hygiene – EMSL Analytical • April, 2008
Principles of Ambient Air Monitoring – CARB • August, 2007
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Air Dispersion Modeling – Lakes Environmental • June, 2006

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APPENDIX 4.1:

CALEEMOD EMISSIONS MODEL OUTPUTS – CONSTRUCTION

16285 Eucalyptus BP Construction Ph1 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2027) - Unmitigated

3.3. Site Preparation (2027) - Unmitigated

3.5. Grading (2027) - Unmitigated

3.7. Building Construction (2027) - Unmitigated

3.9. Building Construction (2028) - Unmitigated

3.11. Paving (2028) - Unmitigated

3.13. Architectural Coating (2028) - Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Construction Ph1
Construction Start Date	1/11/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99139661510472, -117.63851888403607
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.32

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	341	1000sqft	7.8	340,700	340,901	—	—	—
Unrefrigerated Warehouse-No Rail	553	1000sqft	13	553,300	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	326	1000sqft	7.5	326,200	0.00	—	—	HCFC Sort
City Park	34	Acre	34	0.00	0.00	0.00	—	—
Parking Lot	1,367	Space	12	546,800	0.00	—	—	—
Other Non-Asphalt Surfaces	7.8	Acre	7.8	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	53	52	44	97	0.16	0.77	14	15	0.66	4.3	4.7	—	25,001	25,001	1.3	1.5	50	25,533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	52	52	44	83	0.16	0.77	14	15	0.66	4.3	4.7	—	24,013	24,013	1.3	1.5	1.3	24,498
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18	18	20	42	0.06	0.33	6.4	6.7	0.31	1.9	2.2	—	11,050	11,050	0.47	0.64	8.6	11,260
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.3	3.3	3.7	7.6	0.01	0.06	1.2	1.2	0.06	0.34	0.40	—	1,829	1,829	0.08	0.11	1.4	1,864

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.4	3.7	44	74	0.16	0.52	11	11	0.47	4.3	4.7	—	20,303	20,303	1.3	1.5	41	20,792
2028	53	52	39	97	0.11	0.77	14	15	0.66	3.3	4.0	—	25,001	25,001	0.83	1.5	50	25,533
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	4.2	3.5	44	70	0.16	0.58	11	11	0.52	4.3	4.7	—	20,268	20,268	1.3	1.5	1.1	20,739
2028	52	52	40	83	0.11	0.77	14	15	0.66	3.3	4.0	—	24,013	24,013	0.85	1.5	1.3	24,498
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.3	1.9	20	42	0.06	0.33	6.4	6.7	0.31	1.9	2.2	—	11,050	11,050	0.47	0.64	8.6	11,260
2028	18	18	14	30	0.04	0.27	4.8	5.1	0.23	1.2	1.4	—	8,506	8,506	0.30	0.54	7.6	8,683
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.41	0.34	3.7	7.6	0.01	0.06	1.2	1.2	0.06	0.34	0.40	—	1,829	1,829	0.08	0.11	1.4	1,864
2028	3.3	3.3	2.6	5.5	0.01	0.05	0.89	0.93	0.04	0.21	0.26	—	1,408	1,408	0.05	0.09	1.3	1,438

3. Construction Emissions Details

3.1. Demolition (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	24	32	0.05	0.56	—	0.56	0.51	—	0.51	—	5,385	5,385	0.22	0.04	—	5,404
Demolition	—	—	—	—	—	—	0.35	0.35	—	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.3	3.1	< 0.005	0.05	—	0.05	0.05	—	0.05	—	516	516	0.02	< 0.005	—	518
Demolition	—	—	—	—	—	—	0.03	0.03	—	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	0.42	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	85	85	< 0.005	< 0.005	—	86
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.13	0.12	0.12	1.5	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	372	372	0.01	0.01	0.03	377
Vendor	0.04	0.01	0.53	0.28	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	477	477	0.03	0.07	0.03	499
Hauling	0.05	0.01	0.51	0.28	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	418	418	0.04	0.07	0.02	440
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.15	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36	36	< 0.005	< 0.005	0.05	37
Vendor	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	46	46	< 0.005	0.01	0.05	48
Hauling	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	40	40	< 0.005	0.01	0.03	42
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.0	6.0	< 0.005	< 0.005	0.01	6.1
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.6	7.6	< 0.005	< 0.005	0.01	7.9
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.6	6.6	< 0.005	< 0.005	0.01	7.0

3.3. Site Preparation (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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	15	28	0.05	0.10	—	0.10	0.10	—	0.10	—	5,296	5,296	0.21	0.04	—	5,315
Dust From Material Movement	—	—	—	—	—	—	5.7	5.7	—	2.7	2.7	—	—	—	—	—	—	—

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	0.04	0.04	0.81	1.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.15	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48	48	< 0.005	< 0.005	—	48
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	0.88	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	217	217	< 0.005	0.01	0.02	220
Vendor	0.02	0.01	0.30	0.16	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	—	268	268	0.02	0.04	0.02	280
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12	12	< 0.005	< 0.005	0.02	12
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15	15	< 0.005	< 0.005	0.02	15
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.0	2.0	< 0.005	< 0.005	< 0.005	2.0
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.4	2.4	< 0.005	< 0.005	< 0.005	2.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,437	11,437	0.46	0.09	—	11,477
Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,437	11,437	0.46	0.09	—	11,477

Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	5.1	9.5	0.02	0.04	—	0.04	0.04	—	0.04	—	1,723	1,723	0.07	0.01	—	1,729
Dust From Material Movement	—	—	—	—	—	—	1.2	1.2	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.94	1.7	< 0.005	0.01	—	0.01	0.01	—	0.01	—	285	285	0.01	< 0.005	—	286
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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	0.16	0.14	0.12	2.3	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	473	473	0.01	0.02	1.5	480
Vendor	0.07	0.02	0.78	0.43	0.01	0.01	0.21	0.23	0.01	0.06	0.07	—	744	744	0.05	0.11	1.8	780
Hauling	0.90	0.12	8.9	5.0	0.05	0.10	2.1	2.2	0.10	0.58	0.69	—	7,648	7,648	0.78	1.2	15	8,055

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.15	0.14	0.14	1.8	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	434	434	0.01	0.02	0.04	439
Vendor	0.07	0.01	0.82	0.43	0.01	0.01	0.21	0.23	0.01	0.06	0.07	—	745	745	0.05	0.11	0.05	779
Hauling	0.89	0.11	9.3	5.1	0.05	0.10	2.1	2.2	0.10	0.58	0.69	—	7,651	7,651	0.78	1.2	0.38	8,044
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.28	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66	66	< 0.005	< 0.005	0.10	67
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112	112	0.01	0.02	0.12	117
Hauling	0.14	0.02	1.4	0.76	0.01	0.02	0.32	0.33	0.02	0.09	0.10	—	1,153	1,153	0.12	0.19	0.95	1,213
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.02	11
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19	19	< 0.005	< 0.005	0.02	19
Hauling	0.02	< 0.005	0.26	0.14	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	191	191	0.02	0.03	0.16	201

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	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.25	0.25	7.2	9.1	0.02	0.19	—	0.19	0.17	—	0.17	—	1,623	1,623	0.07	0.01	—	1,629
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.3	1.7	< 0.005	0.03	—	0.03	0.03	—	0.03	—	269	269	0.01	< 0.005	—	270
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.4	3.1	2.6	50	0.00	0.00	9.7	9.7	0.00	2.3	2.3	—	10,038	10,038	0.11	0.35	32	10,177
Vendor	0.35	0.08	4.0	2.2	0.03	0.06	1.1	1.1	0.06	0.30	0.36	—	3,780	3,780	0.27	0.57	9.1	3,964
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.2	2.9	2.9	37	0.00	0.00	9.7	9.7	0.00	2.3	2.3	—	9,207	9,207	0.13	0.35	0.82	9,316
Vendor	0.35	0.07	4.2	2.2	0.03	0.06	1.1	1.1	0.06	0.30	0.36	—	3,783	3,783	0.27	0.57	0.23	3,958
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	1.3	1.2	1.3	16	0.00	0.00	4.0	4.0	0.00	0.93	0.93	—	3,855	3,855	0.05	0.15	5.6	3,905
Vendor	0.14	0.03	1.7	0.90	0.01	0.02	0.44	0.47	0.02	0.12	0.15	—	1,561	1,561	0.11	0.23	1.6	1,635
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.24	3.0	0.00	0.00	0.72	0.72	0.00	0.17	0.17	—	638	638	0.01	0.02	0.93	647
Vendor	0.03	0.01	0.31	0.16	< 0.005	< 0.005	0.08	0.09	< 0.005	0.02	0.03	—	258	258	0.02	0.04	0.27	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

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	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,932	3,932	0.16	0.03	—	3,946
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,932	3,932	0.16	0.03	—	3,946
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.22	0.22	6.2	7.9	0.01	0.16	—	0.16	0.15	—	0.15	—	1,400	1,400	0.06	0.01	—	1,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.1	1.4	< 0.005	0.03	—	0.03	0.03	—	0.03	—	232	232	0.01	< 0.005	—	233
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	3.0	2.9	2.6	46	0.00	0.00	9.7	9.7	0.00	2.3	2.3	—	9,847	9,847	0.11	0.35	28	9,983
Vendor	0.35	0.08	3.8	2.1	0.03	0.06	1.1	1.1	0.03	0.30	0.33	—	3,693	3,693	0.24	0.57	8.0	3,876
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.8	2.8	2.6	35	0.00	0.00	9.7	9.7	0.00	2.3	2.3	—	9,034	9,034	0.13	0.35	0.74	9,143
Vendor	0.34	0.07	4.0	2.1	0.03	0.06	1.1	1.1	0.03	0.30	0.33	—	3,696	3,696	0.24	0.57	0.21	3,870
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.00	0.98	1.0	13	0.00	0.00	3.4	3.4	0.00	0.80	0.80	—	3,263	3,263	0.05	0.13	4.4	3,305
Vendor	0.12	0.03	1.4	0.75	0.01	0.02	0.38	0.40	0.01	0.11	0.12	—	1,316	1,316	0.08	0.20	1.2	1,379
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.18	0.19	2.4	0.00	0.00	0.62	0.62	0.00	0.15	0.15	—	540	540	0.01	0.02	0.72	547
Vendor	0.02	< 0.005	0.26	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	218	218	0.01	0.03	0.20	228

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.26	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.26	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.08	0.08	2.5	3.6	< 0.005	0.03	—	0.03	0.03	—	0.03	—	517	517	0.02	< 0.005	—	519
Paving	0.09	0.09	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.45	0.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	86	86	< 0.005	< 0.005	—	86
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.93	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	199	199	< 0.005	0.01	0.57	202
Vendor	0.16	0.04	1.7	0.94	0.01	0.03	0.49	0.51	0.01	0.13	0.15	—	1,658	1,658	0.11	0.25	3.6	1,739
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	0.06	0.06	0.05	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	0.15	0.03	1.8	0.96	0.01	0.03	0.49	0.51	0.01	0.13	0.15	—	1,659	1,659	0.11	0.25	0.09	1,737
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	0.02	0.02	0.02	0.25	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63	63	< 0.005	< 0.005	0.08	64
Vendor	0.05	0.01	0.61	0.32	< 0.005	0.01	0.17	0.17	< 0.005	0.05	0.05	—	568	568	0.04	0.09	0.53	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.01	11
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94	94	0.01	0.01	0.09	99
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (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	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	47	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	47	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.5	1.3	< 0.005	0.04	—	0.04	0.04	—	0.04	—	183	183	0.01	< 0.005	—	184

Architect Coatings	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.27	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30	30	< 0.005	< 0.005	—	30
Architectural Coatings	3.0	3.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.60	0.59	0.51	9.2	0.00	0.00	1.9	1.9	0.00	0.45	0.45	—	1,969	1,969	0.02	0.07	5.7	1,997
Vendor	0.16	0.04	1.7	0.94	0.01	0.03	0.49	0.51	0.01	0.13	0.15	—	1,658	1,658	0.11	0.25	3.6	1,739
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	0.57	0.55	0.52	6.9	0.00	0.00	1.9	1.9	0.00	0.45	0.45	—	1,807	1,807	0.03	0.07	0.15	1,829
Vendor	0.15	0.03	1.8	0.96	0.01	0.03	0.49	0.51	0.01	0.13	0.15	—	1,659	1,659	0.11	0.25	0.09	1,737
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	0.19	0.19	0.20	2.5	0.00	0.00	0.66	0.66	0.00	0.15	0.15	—	627	627	0.01	0.02	0.84	636
Vendor	0.05	0.01	0.61	0.32	< 0.005	0.01	0.17	0.17	< 0.005	0.05	0.05	—	568	568	0.04	0.09	0.53	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.03	0.03	0.04	0.46	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	104	104	< 0.005	< 0.005	0.14	105
Vendor	0.01	< 0.005	0.11	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	94	94	0.01	0.01	0.09	99
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	2/18/2027	5.0	35	—
Site Preparation	Site Preparation	2/19/2027	3/18/2027	5.0	20	—
Grading	Grading	3/19/2027	6/3/2027	5.0	55	—
Building Construction	Building Construction	6/4/2027	6/30/2028	5.0	281	—
Paving	Paving	1/8/2028	6/30/2028	5.0	125	—
Architectural Coating	Architectural Coating	1/8/2028	6/30/2028	5.0	125	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

Demolition	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Demolition	Other Material Handling Equipment	Diesel	Tier 4 Interim	2.0	8.0	93	0.40
Demolition	Off-Highway Trucks	Diesel	Tier 3	2.0	8.0	376	0.38
Demolition	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	6.0	8.0	84	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.0	8.0	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	4.0	8.0	84	0.37
Grading	Graders	Diesel	Tier 4 Interim	4.0	8.0	148	0.41
Grading	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	4.0	8.0	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Interim	2.0	8.0	376	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.0	8.0	87	0.43
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.0	8.0	14	0.74
Building Construction	Cranes	Diesel	Tier 3	2.0	8.0	367	0.29
Building Construction	Welders	Diesel	Tier 4 Interim	2.0	8.0	46	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.0	8.0	84	0.37
Paving	Pavers	Diesel	Tier 4 Interim	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	3.0	8.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	30	19	LDA,LDT1,LDT2

Demolition	Vendor	16	10	HHDT,MHDT
Demolition	Hauling	6.3	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18	19	LDA,LDT1,LDT2
Site Preparation	Vendor	9.0	10	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	35	19	LDA,LDT1,LDT2
Grading	Vendor	25	10	HHDT,MHDT
Grading	Hauling	115	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	742	19	LDA,LDT1,LDT2
Building Construction	Vendor	127	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	19	LDA,LDT1,LDT2
Paving	Vendor	57	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	148	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	57	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,830,300	610,100	52,437

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	880	0.00
Site Preparation	—	—	70	0.00	0.00
Grading	—	50,595	275	0.00	0.00
Paving	0.00	0.00	0.00	0.00	20

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Industrial Park	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	City Park	0.00	0%
Paving	Parking Lot	12	100%

Paving	Other Non-Asphalt Surfaces	7.8	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	0.00	532	0.03	< 0.005
2028	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. 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	18	annual days of extreme heat
Extreme Precipitation	3.0	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	9.1	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	2	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	2	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	77
AQ-PM	93
AQ-DPM	57
Drinking Water	100

Lead Risk Housing	17
Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99
Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687
Employed	6.274862056
Median HI	76.55588349

Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7

Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1

Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72
Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification

Construction: Construction Phases	Construction schedule estimated by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits

16285 Eucalyptus BP Construction Ph2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2028) - Unmitigated

3.3. Site Preparation (2028) - Unmitigated

3.5. Grading (2028) - Unmitigated

3.7. Building Construction (2028) - Unmitigated

3.9. Building Construction (2029) - Unmitigated

3.11. Paving (2029) - Unmitigated

3.13. Architectural Coating (2029) - Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Construction Ph2
Construction Start Date	7/15/2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.32

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	274	1000sqft	6.3	273,700	341,937	—	—	—
Unrefrigerated Warehouse-No Rail	553	1000sqft	13	553,300	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	261	1000sqft	6.0	261,000	0.00	—	—	HCFC Sort
City Park	38	Acre	38	0.00	0.00	0.00	—	—
Parking Lot	1,271	Space	11	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	12	Acre	12	0.00	0.00	—	—	—
Hospital	35	1000sqft	0.80	35,000	0.00	—	—	—
Strip Mall	5.0	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	5.0	1000sqft	0.11	5,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	51	51	47	73	0.19	0.70	11	12	0.64	4.6	5.0	—	23,409	23,409	1.6	2.0	28	24,052
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	51	50	48	72	0.19	0.70	11	12	0.64	4.6	5.0	—	23,375	23,375	1.6	2.0	0.73	23,997
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18	18	20	39	0.05	0.42	5.5	6.0	0.38	1.3	1.7	—	10,405	10,405	0.35	0.56	7.5	10,588

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.3	3.3	3.7	7.2	0.01	0.08	1.0	1.1	0.07	0.24	0.31	—	1,723	1,723	0.06	0.09	1.2	1,753

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	2.9	1.7	47	72	0.19	0.57	11	12	0.51	4.6	5.0	—	23,409	23,409	1.6	2.0	22	24,052
2029	51	51	35	73	0.09	0.70	8.9	9.6	0.64	2.1	2.8	—	17,909	17,909	0.61	0.97	28	18,243
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	2.8	2.4	48	72	0.19	0.49	11	12	0.43	4.6	5.0	—	23,375	23,375	1.6	2.0	0.60	23,997
2029	51	50	36	64	0.09	0.70	8.9	9.6	0.64	2.1	2.8	—	17,288	17,288	0.62	0.97	0.73	17,595
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.72	0.53	12	18	0.04	0.15	2.5	2.7	0.14	0.95	1.1	—	5,147	5,147	0.30	0.35	2.1	5,260
2029	18	18	20	39	0.05	0.42	5.5	6.0	0.38	1.3	1.7	—	10,405	10,405	0.35	0.56	7.5	10,588
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2028	0.13	0.10	2.1	3.4	0.01	0.03	0.46	0.49	0.03	0.17	0.20	—	852	852	0.05	0.06	0.35	871
2029	3.3	3.3	3.7	7.2	0.01	0.08	1.0	1.1	0.07	0.24	0.31	—	1,723	1,723	0.06	0.09	1.2	1,753

3. Construction Emissions Details

3.1. Demolition (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	0.87	0.87	24	32	0.05	0.56	—	0.56	0.51	—	0.51	—	5,386	5,386	0.22	0.04	—	5,405
Demolition	—	—	—	—	—	—	0.17	0.17	—	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.3	3.1	< 0.005	0.05	—	0.05	0.05	—	0.05	—	516	516	0.02	< 0.005	—	518
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.42	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	86	86	< 0.005	< 0.005	—	86
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.12	0.10	1.9	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	398	398	< 0.005	0.01	1.1	404
Vendor	0.03	0.01	0.30	0.16	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	291	291	0.02	0.04	0.63	305
Hauling	0.02	< 0.005	0.23	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	—	204	204	0.02	0.03	0.37	215
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	36	36	< 0.005	< 0.005	0.05	36
Vendor	< 0.005	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	28	28	< 0.005	< 0.005	0.03	29
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	20	20	< 0.005	< 0.005	0.02	21
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.9	5.9	< 0.005	< 0.005	0.01	6.0
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.6	4.6	< 0.005	< 0.005	< 0.005	4.8
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.2	3.2	< 0.005	< 0.005	< 0.005	3.4

3.3. Site Preparation (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	0.64	0.64	15	28	0.05	0.10	—	0.10	0.10	—	0.10	—	5,298	5,298	0.21	0.04	—	5,316

Dust From Material Movement	—	—	—	—	—	—	5.7	5.7	—	2.7	2.7	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.81	1.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	290	290	0.01	< 0.005	—	291
Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.15	0.28	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	48	48	< 0.005	< 0.005	—	48
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.06	1.1	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	232	232	< 0.005	0.01	0.67	235

Vendor	0.02	< 0.005	0.18	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	174	174	0.01	0.03	0.38	183
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	12	12	< 0.005	< 0.005	0.02	12
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	9.6	9.6	< 0.005	< 0.005	0.01	10
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.0	2.0	< 0.005	< 0.005	< 0.005	2.0
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.6	1.6	< 0.005	< 0.005	< 0.005	1.7
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 (2028) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,442	11,442	0.46	0.09	—	11,481
Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,442	11,442	0.46	0.09	—	11,481
Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	5.1	9.5	0.02	0.04	—	0.04	0.04	—	0.04	—	1,724	1,724	0.07	0.01	—	1,730
Dust From Material Movement	—	—	—	—	—	—	1.2	1.2	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.94	1.7	< 0.005	0.01	—	0.01	0.01	—	0.01	—	285	285	0.01	< 0.005	—	286
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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	0.14	0.14	0.12	2.2	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	464	464	0.01	0.02	1.3	471
Vendor	0.04	0.01	0.48	0.26	< 0.005	0.01	0.14	0.14	< 0.005	0.04	0.04	—	465	465	0.03	0.07	1.0	488
Hauling	1.3	0.18	13	7.2	0.08	0.15	3.1	3.3	0.15	0.86	1.0	—	11,037	11,037	1.1	1.8	20	11,612
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.13	0.12	1.6	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	426	426	0.01	0.02	0.03	431
Vendor	0.04	0.01	0.50	0.27	< 0.005	0.01	0.14	0.14	< 0.005	0.04	0.04	—	466	466	0.03	0.07	0.03	488
Hauling	1.2	0.16	13	7.3	0.08	0.15	3.1	3.3	0.15	0.86	1.0	—	11,042	11,042	1.1	1.8	0.51	11,597
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	65	65	< 0.005	< 0.005	0.09	66
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70	70	< 0.005	0.01	0.07	74
Hauling	0.19	0.03	2.0	1.1	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,663	1,663	0.16	0.27	1.3	1,748
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.01	11
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12	12	< 0.005	< 0.005	0.01	12
Hauling	0.03	< 0.005	0.37	0.20	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	275	275	0.03	0.04	0.21	289

3.7. 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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,932	3,932	0.16	0.03	—	3,946
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	1.0	1.3	< 0.005	0.03	—	0.03	0.02	—	0.02	—	231	231	0.01	< 0.005	—	232
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.19	0.24	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	38	38	< 0.005	< 0.005	—	38
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.8	1.8	1.6	22	0.00	0.00	6.2	6.2	0.00	1.4	1.4	—	5,744	5,744	0.08	0.22	0.47	5,813
Vendor	0.22	0.05	2.6	1.4	0.02	0.04	0.70	0.74	0.02	0.19	0.21	—	2,386	2,386	0.15	0.36	0.13	2,499
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.10	0.10	0.11	1.4	0.00	0.00	0.36	0.36	0.00	0.08	0.08	—	342	342	< 0.005	0.01	0.46	346
Vendor	0.01	< 0.005	0.15	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	140	140	0.01	0.02	0.13	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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	57	57	< 0.005	< 0.005	0.08	57
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23	23	< 0.005	< 0.005	0.02	24
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.43	0.43	12	16	0.03	0.33	—	0.33	0.30	—	0.30	—	2,808	2,808	0.11	0.02	—	2,818
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	2.3	2.9	0.01	0.06	—	0.06	0.05	—	0.05	—	465	465	0.02	< 0.005	—	466
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.8	1.8	1.4	27	0.00	0.00	6.2	6.2	0.00	1.4	1.4	—	6,147	6,147	0.06	0.22	16	6,231
Vendor	0.21	0.05	2.4	1.3	0.02	0.02	0.70	0.72	0.02	0.19	0.21	—	2,322	2,322	0.15	0.35	4.6	2,434
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.7	1.5	1.6	21	0.00	0.00	6.2	6.2	0.00	1.4	1.4	—	5,641	5,641	0.07	0.22	0.42	5,710
Vendor	0.20	0.05	2.4	1.3	0.02	0.02	0.70	0.72	0.02	0.19	0.21	—	2,324	2,324	0.15	0.35	0.12	2,431
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.2	1.1	1.2	16	0.00	0.00	4.4	4.4	0.00	1.0	1.0	—	4,086	4,086	0.05	0.16	5.0	4,139
Vendor	0.15	0.04	1.8	0.93	0.01	0.01	0.50	0.51	0.01	0.14	0.15	—	1,659	1,659	0.11	0.25	1.4	1,737
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.22	0.19	0.21	2.8	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	676	676	0.01	0.03	0.82	685
Vendor	0.03	0.01	0.32	0.17	< 0.005	< 0.005	0.09	0.09	< 0.005	0.03	0.03	—	275	275	0.02	0.04	0.23	288

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (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	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.24	0.24	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.5	3.6	< 0.005	0.03	—	0.03	0.03	—	0.03	—	517	517	0.02	< 0.005	—	519
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.45	0.66	< 0.005	0.01	—	0.01	0.01	—	0.01	—	86	86	< 0.005	< 0.005	—	86
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.05	0.87	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	195	195	< 0.005	0.01	0.51	198
Vendor	0.09	0.02	1.0	0.57	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	1,019	1,019	0.07	0.15	2.0	1,068
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.66	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	179	179	< 0.005	0.01	0.01	182
Vendor	0.09	0.02	1.1	0.58	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	1,020	1,020	0.07	0.15	0.05	1,067
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.24	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	62	62	< 0.005	< 0.005	0.08	63
Vendor	0.03	0.01	0.37	0.20	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.30	366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.01	10
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	58	58	< 0.005	0.01	0.05	61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. 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	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	47	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	47	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	1.5	1.3	< 0.005	0.04	—	0.04	0.04	—	0.04	—	183	183	0.01	< 0.005	—	184

Architect Coatings	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.27	0.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30	30	< 0.005	< 0.005	—	30
Architectural Coatings	3.0	3.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.36	0.35	0.29	5.5	0.00	0.00	1.2	1.2	0.00	0.29	0.29	—	1,229	1,229	0.01	0.04	3.2	1,246
Vendor	0.09	0.02	1.0	0.57	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	1,019	1,019	0.07	0.15	2.0	1,068
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.29	0.33	4.1	0.00	0.00	1.2	1.2	0.00	0.29	0.29	—	1,128	1,128	0.01	0.04	0.08	1,142
Vendor	0.09	0.02	1.1	0.58	0.01	0.01	0.31	0.32	0.01	0.09	0.09	—	1,020	1,020	0.07	0.15	0.05	1,067
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.10	0.11	1.5	0.00	0.00	0.42	0.42	0.00	0.10	0.10	—	392	392	< 0.005	0.02	0.48	397
Vendor	0.03	0.01	0.37	0.20	< 0.005	< 0.005	0.10	0.11	< 0.005	0.03	0.03	—	349	349	0.02	0.05	0.30	366
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	65	65	< 0.005	< 0.005	0.08	66
Vendor	0.01	< 0.005	0.07	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	58	58	< 0.005	0.01	0.05	61
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/1/2028	8/18/2028	5.0	35	—
Site Preparation	Site Preparation	8/19/2028	9/15/2028	5.0	20	—
Grading	Grading	9/16/2028	12/1/2028	5.0	55	—
Building Construction	Building Construction	12/2/2028	12/31/2029	5.0	281	—
Paving	Paving	7/10/2029	12/31/2029	5.0	125	—
Architectural Coating	Architectural Coating	7/10/2029	12/31/2029	5.0	125	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

Demolition	Tractors/Loaders/Back	Diesel	Tier 4 Interim	6.0	8.0	84	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Demolition	Other Material Handling Equipment	Diesel	Tier 4 Interim	2.0	8.0	93	0.40
Demolition	Off-Highway Trucks	Diesel	Tier 3	2.0	8.0	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.0	8.0	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	4.0	8.0	84	0.37
Grading	Graders	Diesel	Tier 4 Interim	4.0	8.0	148	0.41
Grading	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	4.0	8.0	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Interim	2.0	8.0	376	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.0	8.0	87	0.43
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.0	8.0	14	0.74
Building Construction	Cranes	Diesel	Tier 3	2.0	8.0	367	0.29
Building Construction	Welders	Diesel	Tier 4 Interim	2.0	8.0	46	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.0	8.0	84	0.37
Paving	Pavers	Diesel	Tier 4 Interim	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	3.0	8.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	30	19	LDA,LDT1,LDT2
Demolition	Vendor	10.0	10	HHDT,MHDT

Demolition	Hauling	3.1	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18	19	LDA,LDT1,LDT2
Site Preparation	Vendor	6.0	10	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	35	19	LDA,LDT1,LDT2
Grading	Vendor	16	10	HHDT,MHDT
Grading	Hauling	170	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	472	19	LDA,LDT1,LDT2
Building Construction	Vendor	82	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	19	LDA,LDT1,LDT2
Paving	Vendor	36	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	94	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	36	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,830,300	610,100	52,437

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	440	0.00
Site Preparation	—	—	70	0.00	0.00
Grading	74,738	—	275	0.00	0.00
Paving	0.00	0.00	0.00	0.00	23

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Industrial Park	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	City Park	0.00	0%
Paving	Parking Lot	11	100%
Paving	Other Non-Asphalt Surfaces	12	0%
Paving	Hospital	0.00	0%

Paving	Strip Mall	0.00	0%
Paving	Fast Food Restaurant with Drive Thru	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
2028	0.00	532	0.03	< 0.005
2029	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. 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	20	annual days of extreme heat
Extreme Precipitation	3.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.8	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	2	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	2	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	77
AQ-PM	93

AQ-DPM	57
Drinking Water	100
Lead Risk Housing	17
Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99
Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687

Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6

High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5

Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72
Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Construction schedule provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, Building Construction, Paving, and Architectural Coating.
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
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.

16285 Eucalyptus BP Construction Ph3 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2030) - Unmitigated

3.3. Site Preparation (2030) - Unmitigated

3.5. Grading (2030) - Unmitigated

3.7. Building Construction (2030) - Unmitigated

3.9. Building Construction (2031) - Unmitigated

3.11. Paving (2031) - Unmitigated

3.13. Architectural Coating (2031) - Unmitigated

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

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

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. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Construction Ph3
Construction Start Date	1/1/2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.32

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	163	1000sqft	3.7	162,600	157,949	—	—	—
Unrefrigerated Warehouse-No Rail	164	1000sqft	3.8	163,600	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	48	1000sqft	1.1	47,900	0.00	—	—	HCFC Sort
City Park	21	Acre	21	0.00	0.00	0.00	—	—
Parking Lot	1,271	Space	11	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	2.6	Acre	2.6	0.00	0.00	—	—	—
Manufacturing	212	1000sqft	4.9	211,700	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

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.	61	61	46	71	0.19	0.68	11	12	0.62	4.6	5.0	—	22,627	22,627	1.4	1.8	18	23,229
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	61	61	47	71	0.19	0.68	11	12	0.62	4.6	5.0	—	22,596	22,596	1.4	1.8	0.47	23,180
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17	17	18	29	0.06	0.32	3.6	3.9	0.29	1.2	1.5	—	7,689	7,689	0.36	0.44	3.0	7,832
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.1	3.1	3.3	5.4	0.01	0.06	0.66	0.71	0.05	0.22	0.27	—	1,273	1,273	0.06	0.07	0.49	1,297

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	2.7	1.7	46	71	0.19	0.47	11	12	0.42	4.6	5.0	—	22,627	22,627	1.4	1.8	18	23,229
2031	61	61	32	53	0.08	0.68	4.7	5.4	0.62	1.1	1.8	—	11,959	11,959	0.40	0.38	12	12,095
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	2.6	1.7	47	71	0.19	0.57	11	12	0.51	4.6	5.0	—	22,596	22,596	1.4	1.8	0.47	23,180
2031	61	61	32	49	0.08	0.68	4.7	5.4	0.62	1.1	1.8	—	11,640	11,640	0.41	0.51	0.30	11,802
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	1.2	0.95	18	29	0.06	0.32	3.6	3.9	0.29	1.2	1.5	—	7,689	7,689	0.36	0.44	3.0	7,832
2031	17	17	10	16	0.03	0.22	1.6	1.8	0.21	0.38	0.58	—	3,848	3,848	0.13	0.17	1.7	3,902
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2030	0.22	0.17	3.3	5.4	0.01	0.06	0.66	0.71	0.05	0.22	0.27	—	1,273	1,273	0.06	0.07	0.49	1,297
2031	3.1	3.1	1.9	3.0	< 0.005	0.04	0.29	0.33	0.04	0.07	0.11	—	637	637	0.02	0.03	0.28	646

3. Construction Emissions Details

3.1. Demolition (2030) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.87	0.87	24	32	0.05	0.56	—	0.56	0.51	—	0.51	—	5,387	5,387	0.22	0.04	—	5,405
Demolition	—	—	—	—	—	—	0.40	0.40	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	2.3	3.1	< 0.005	0.05	—	0.05	0.05	—	0.05	—	517	517	0.02	< 0.005	—	518
Demolition	—	—	—	—	—	—	0.04	0.04	—	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	0.42	0.56	< 0.005	0.01	—	0.01	0.01	—	0.01	—	86	86	< 0.005	< 0.005	—	86
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.10	0.09	0.09	1.2	0.00	0.00	0.39	0.39	0.00	0.09	0.09	—	353	353	< 0.005	0.01	0.02	357
Vendor	0.01	< 0.005	0.17	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	165	165	0.01	0.03	0.01	173
Hauling	0.05	0.01	0.51	0.28	< 0.005	0.01	0.13	0.14	0.01	0.04	0.04	—	441	441	0.04	0.07	0.02	464
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	34	34	< 0.005	< 0.005	0.04	35
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	16	16	< 0.005	< 0.005	0.01	17
Hauling	< 0.005	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42	42	< 0.005	0.01	0.03	44
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.7	5.7	< 0.005	< 0.005	0.01	5.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.6	2.6	< 0.005	< 0.005	< 0.005	2.7
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	7.0	7.0	< 0.005	< 0.005	< 0.005	7.4

3.3. Site Preparation (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.68	0.68	16	30	0.05	0.10	—	0.10	0.10	—	0.10	—	5,531	5,531	0.22	0.04	—	5,550
Dust From Material Movement	—	—	—	—	—	—	5.7	5.7	—	2.7	2.7	—	—	—	—	—	—	—

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	0.04	0.04	0.86	1.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	303	303	0.01	< 0.005	—	304
Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.16	0.30	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	50	50	< 0.005	< 0.005	—	50
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.71	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	206	206	< 0.005	0.01	0.01	208
Vendor	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	83	83	< 0.005	0.01	< 0.005	86
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.01	12
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.5	4.5	< 0.005	< 0.005	< 0.005	4.7
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.9	1.9	< 0.005	< 0.005	< 0.005	1.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.75	0.75	< 0.005	< 0.005	< 0.005	0.78
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,437	11,437	0.46	0.09	—	11,477
Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.4	1.4	34	63	0.11	0.27	—	0.27	0.27	—	0.27	—	11,437	11,437	0.46	0.09	—	11,477

Dust From Material Movement	—	—	—	—	—	—	7.7	7.7	—	3.6	3.6	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.21	0.21	5.1	9.5	0.02	0.04	—	0.04	0.04	—	0.04	—	1,723	1,723	0.07	0.01	—	1,729
Dust From Material Movement	—	—	—	—	—	—	1.2	1.2	—	0.54	0.54	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.94	1.7	< 0.005	0.01	—	0.01	0.01	—	0.01	—	285	285	0.01	< 0.005	—	286
Dust From Material Movement	—	—	—	—	—	—	0.21	0.21	—	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	0.13	0.11	0.09	1.9	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	448	448	< 0.005	0.02	1.1	454
Vendor	0.02	0.01	0.25	0.14	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	247	247	0.01	0.04	0.44	260
Hauling	1.1	0.18	12	6.7	0.08	0.15	3.1	3.3	0.15	0.86	1.0	—	10,494	10,494	0.91	1.7	16	11,039

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.10	0.11	1.4	0.00	0.00	0.46	0.46	0.00	0.11	0.11	—	411	411	0.01	0.02	0.03	416
Vendor	0.02	0.01	0.26	0.14	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02	—	248	248	0.01	0.04	0.01	259
Hauling	1.1	0.16	12	6.7	0.08	0.15	3.1	3.3	0.15	0.86	1.0	—	10,499	10,499	0.90	1.7	0.43	11,028
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.23	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	63	63	< 0.005	< 0.005	0.07	64
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37	37	< 0.005	0.01	0.03	39
Hauling	0.16	0.03	1.9	1.0	0.01	0.02	0.47	0.49	0.02	0.13	0.15	—	1,582	1,582	0.14	0.26	1.1	1,662
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.01	11
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.2	6.2	< 0.005	< 0.005	< 0.005	6.5
Hauling	0.03	< 0.005	0.34	0.18	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.03	—	262	262	0.02	0.04	0.18	275

3.7. Building Construction (2030) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.25	0.25	7.2	9.1	0.02	0.19	—	0.19	0.17	—	0.17	—	1,623	1,623	0.07	0.01	—	1,629
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.05	0.05	1.3	1.7	< 0.005	0.03	—	0.03	0.03	—	0.03	—	269	269	0.01	< 0.005	—	270
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.89	0.78	0.64	13	0.00	0.00	3.2	3.2	0.00	0.75	0.75	—	3,150	3,150	0.03	0.12	7.5	3,193
Vendor	0.10	0.03	1.3	0.70	0.01	0.01	0.39	0.40	0.01	0.11	0.12	—	1,265	1,265	0.07	0.19	2.2	1,327
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.73	0.74	10	0.00	0.00	3.2	3.2	0.00	0.75	0.75	—	2,891	2,891	0.04	0.12	0.19	2,927
Vendor	0.10	0.03	1.3	0.71	0.01	0.01	0.39	0.40	0.01	0.11	0.12	—	1,266	1,266	0.07	0.19	0.06	1,325
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	0.35	0.30	0.31	4.3	0.00	0.00	1.3	1.3	0.00	0.31	0.31	—	1,210	1,210	0.02	0.05	1.3	1,227
Vendor	0.04	0.01	0.55	0.29	< 0.005	< 0.005	0.16	0.17	< 0.005	0.04	0.05	—	522	522	0.03	0.08	0.40	547
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.79	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	200	200	< 0.005	0.01	0.22	203
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	86	86	0.01	0.01	0.07	91
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.60	17	22	0.04	0.46	—	0.46	0.41	—	0.41	—	3,931	3,931	0.16	0.03	—	3,945
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	0.21	0.21	6.2	7.8	0.01	0.16	—	0.16	0.15	—	0.15	—	1,392	1,392	0.06	0.01	—	1,397
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.1	1.4	< 0.005	0.03	—	0.03	0.03	—	0.03	—	231	231	0.01	< 0.005	—	231
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.85	0.73	0.63	12	0.00	0.00	3.2	3.2	0.00	0.75	0.75	—	3,100	3,100	0.03	0.02	6.6	3,112
Vendor	0.10	0.03	1.2	0.67	0.01	0.01	0.39	0.40	0.01	0.11	0.12	—	1,224	1,224	0.07	0.18	1.9	1,282
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.69	0.64	9.3	0.00	0.00	3.2	3.2	0.00	0.75	0.75	—	2,846	2,846	0.03	0.12	0.17	2,881
Vendor	0.10	0.03	1.3	0.68	0.01	0.01	0.39	0.40	0.01	0.11	0.12	—	1,225	1,225	0.07	0.18	0.05	1,281
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.29	0.24	0.23	3.5	0.00	0.00	1.1	1.1	0.00	0.26	0.26	—	1,022	1,022	0.01	0.04	1.0	1,036
Vendor	0.04	0.01	0.45	0.24	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	434	434	0.03	0.07	0.29	454
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.63	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	169	169	< 0.005	0.01	0.17	171
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	72	72	< 0.005	0.01	0.05	75

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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 (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	7.2	11	0.01	0.09	—	0.09	0.08	—	0.08	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	2.0	2.9	< 0.005	0.02	—	0.02	0.02	—	0.02	—	414	414	0.02	< 0.005	—	415
Paving	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.36	0.53	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	69	69	< 0.005	< 0.005	—	69
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.75	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	189	189	< 0.005	< 0.005	0.40	190
Vendor	0.04	0.01	0.42	0.23	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	426	426	0.03	0.06	0.67	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	0.05	0.04	0.04	0.57	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	173	173	< 0.005	0.01	0.01	176
Vendor	0.03	0.01	0.44	0.24	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	426	426	0.03	0.06	0.02	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.16	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	48	48	< 0.005	< 0.005	0.05	49
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	117	117	0.01	0.02	0.08	122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.0	8.0	< 0.005	< 0.005	0.01	8.1
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19	19	< 0.005	< 0.005	0.01	20
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2031) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	59	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	4.3	3.9	0.01	0.12	—	0.12	0.11	—	0.11	—	534	534	0.02	< 0.005	—	536
Architectural Coatings	59	59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	1.2	1.1	< 0.005	0.03	—	0.03	0.03	—	0.03	—	146	146	0.01	< 0.005	—	147

Architect Coatings	16	16	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.21	0.19	< 0.005	0.01	—	0.01	0.01	—	0.01	—	24	24	< 0.005	< 0.005	—	24
Architectural Coatings	3.0	3.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.15	0.13	2.5	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	620	620	0.01	< 0.005	1.3	622
Vendor	0.04	0.01	0.42	0.23	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	426	426	0.03	0.06	0.67	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	0.16	0.14	0.13	1.9	0.00	0.00	0.64	0.64	0.00	0.15	0.15	—	569	569	0.01	0.02	0.03	576
Vendor	0.03	0.01	0.44	0.24	< 0.005	< 0.005	0.14	0.14	< 0.005	0.04	0.04	—	426	426	0.03	0.06	0.02	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.54	0.00	0.00	0.17	0.17	0.00	0.04	0.04	—	158	158	< 0.005	0.01	0.16	160
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	117	117	0.01	0.02	0.08	122
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.10	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26	26	< 0.005	< 0.005	0.03	27
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	19	19	< 0.005	< 0.005	0.01	20
Hauling	0.00	0.00	0.00	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2030	2/18/2030	5.0	35	—
Site Preparation	Site Preparation	2/19/2030	3/18/2030	5.0	20	—
Grading	Grading	3/19/2030	6/3/2030	5.0	55	—
Building Construction	Building Construction	6/4/2030	6/30/2031	5.0	280	—
Paving	Paving	2/11/2031	6/30/2031	5.0	100	—
Architectural Coating	Architectural Coating	2/11/2031	6/30/2031	5.0	100	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

Demolition	Tractors/Loaders/Back	Diesel	Tier 4 Interim	6.0	8.0	84	0.37
Demolition	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Demolition	Other Material Handling Equipment	Diesel	Tier 4 Interim	2.0	8.0	93	0.40
Demolition	Off-Highway Trucks	Diesel	Tier 3	2.0	8.0	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.0	8.0	367	0.40
Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	4.0	8.0	87	0.43
Grading	Graders	Diesel	Tier 4 Interim	4.0	8.0	148	0.41
Grading	Excavators	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	4.0	8.0	367	0.40
Grading	Off-Highway Trucks	Diesel	Tier 4 Interim	2.0	8.0	376	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Interim	2.0	8.0	87	0.43
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.0	8.0	14	0.74
Building Construction	Cranes	Diesel	Tier 3	2.0	8.0	367	0.29
Building Construction	Welders	Diesel	Tier 4 Interim	2.0	8.0	46	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Interim	3.0	8.0	84	0.37
Paving	Pavers	Diesel	Tier 4 Interim	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	3.0	8.0	37	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	30	19	LDA,LDT1,LDT2
Demolition	Vendor	6.0	10	HHDT,MHDT

Demolition	Hauling	7.1	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	18	19	LDA,LDT1,LDT2
Site Preparation	Vendor	3.0	10	HHDT,MHDT
Site Preparation	Hauling	0.00	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	35	19	LDA,LDT1,LDT2
Grading	Vendor	9.0	10	HHDT,MHDT
Grading	Hauling	170	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	246	19	LDA,LDT1,LDT2
Building Construction	Vendor	46	10	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	19	LDA,LDT1,LDT2
Paving	Vendor	16	10	HHDT,MHDT
Paving	Hauling	0.00	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	49	19	LDA,LDT1,LDT2
Architectural Coating	Vendor	16	10	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	1,830,300	610,100	52,437

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	1,000	0.00
Site Preparation	—	—	70	0.00	0.00
Grading	74,738	—	275	0.00	0.00
Paving	0.00	0.00	0.00	0.00	14

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Industrial Park	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	Unrefrigerated Warehouse-No Rail	0.00	0%
Paving	City Park	0.00	0%
Paving	Parking Lot	11	100%
Paving	Other Non-Asphalt Surfaces	2.6	0%
Paving	Manufacturing	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
2030	0.00	532	0.03	< 0.005
2031	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. 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	20	annual days of extreme heat
Extreme Precipitation	3.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.8	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	2	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	2	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	77
AQ-PM	93
AQ-DPM	57
Drinking Water	100
Lead Risk Housing	17

Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99
Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—

Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7

Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6

Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72
Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Construction schedule provided by Project team.

Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, Building Construction, Paving, and Architectural Coating.
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
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.

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APPENDIX 4.2:

CALEEMOD MODEL OUTPUTS – OPERATION

16285 Eucalyptus BP Ops Ph1 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	16285 Eucalyptus BP Ops Ph1
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	341	1000sqft	7.82	340,700	340,901	—	—	—
Unrefrigerated Warehouse-No Rail	553	1000sqft	12.7	553,300	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	326	1000sqft	7.49	326,200	0.00	—	—	HCFC Sort
City Park	33.8	Acre	33.8	0.00	0.00	0.00	—	—
Parking Lot	1,367	Space	12.3	546,800	0.00	—	—	—
Other Non-Asphalt Surfaces	7.76	Acre	7.76	0.00	0.00	—	—	—
User Defined Industrial	1,220	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	61.9	54.5	79.1	253	1.01	1.51	57.7	59.2	1.41	15.0	16.4	1,216	120,571	121,787	130	13.5	303	129,379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	47.7	41.4	82.2	150	0.98	1.37	57.7	59.1	1.31	15.0	16.3	1,216	117,729	118,945	130	13.6	38.9	126,289
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54.4	48.2	72.3	190	0.87	1.22	50.9	52.1	1.15	13.2	14.4	1,216	105,828	107,044	129	12.2	136	114,036
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.94	8.79	13.2	34.7	0.16	0.22	9.29	9.51	0.21	2.41	2.62	201	17,521	17,722	21.4	2.01	22.4	18,880

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	18.1	11.8	76.4	175	1.00	1.26	57.7	59.0	1.20	15.0	16.2	—	108,099	108,099	6.02	12.1	271	112,123
Area	43.0	42.0	0.65	76.9	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9,938	9,938	0.95	0.11	—	9,996
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	55.6	1.34	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67.4	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
Stationary	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	61.9	54.5	79.1	253	1.01	1.51	57.7	59.2	1.41	15.0	16.4	1,216	120,571	121,787	130	13.5	303	129,379
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	17.6	11.3	80.2	148	0.98	1.26	57.7	59.0	1.21	15.0	16.2	—	105,573	105,573	6.05	12.1	7.04	109,351
Area	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9,938	9,938	0.95	0.11	—	9,996
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	55.6	1.34	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67.4	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
Stationary	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	47.7	41.4	82.2	150	0.98	1.37	57.7	59.1	1.31	15.0	16.3	1,216	117,729	118,945	130	13.6	38.9	126,289
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.6	10.1	71.6	137	0.87	1.11	50.9	52.0	1.06	13.2	14.3	—	93,774	93,774	5.34	10.7	104	97,200

Area	38.7	38.0	0.44	52.6	< 0.005	0.09	—	0.09	0.07	—	0.07	—	216	216	0.01	< 0.005	—	217
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	9,938	9,938	0.95	0.11	—	9,996
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	55.6	1.34	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67.4	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
Stationary	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	50.6	50.6	< 0.005	< 0.005	0.00	50.8
Total	54.4	48.2	72.3	190	0.87	1.22	50.9	52.1	1.15	13.2	14.4	1,216	105,828	107,044	129	12.2	136	114,036
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.85	1.84	13.1	25.0	0.16	0.20	9.29	9.49	0.19	2.41	2.60	—	15,525	15,525	0.88	1.77	17.2	16,093
Area	7.07	6.93	0.08	9.61	< 0.005	0.02	—	0.02	0.01	—	0.01	—	35.8	35.8	< 0.005	< 0.005	—	36.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,645	1,645	0.16	0.02	—	1,655
Water	—	—	—	—	—	—	—	—	—	—	—	89.5	306	396	9.21	0.22	—	692
Waste	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11.2	0.00	—	391
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.27	5.27
Stationary	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.38	8.38	< 0.005	< 0.005	0.00	8.41
Total	9.94	8.79	13.2	34.7	0.16	0.22	9.29	9.51	0.21	2.41	2.62	201	17,521	17,722	21.4	2.01	22.4	18,880

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industria Park	2.23	0.46	23.4	13.3	0.23	0.38	8.37	8.74	0.36	2.25	2.61	—	25,243	25,243	1.71	3.79	61.9	26,477
Unrefrig erated Wareho use-No Rail	4.39	0.92	46.8	26.1	0.46	0.76	16.7	17.5	0.72	4.49	5.21	—	50,562	50,562	3.37	7.60	123	53,035
City Park	0.39	0.34	0.39	4.01	0.01	0.01	1.01	1.02	0.01	0.26	0.26	—	1,138	1,138	0.04	0.05	3.22	1,157
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	11.1	10.1	5.90	131	0.31	0.12	31.6	31.8	0.11	7.99	8.10	—	31,155	31,155	0.90	0.65	82.8	31,455
Total	18.1	11.8	76.4	175	1.00	1.26	57.7	59.0	1.20	15.0	16.2	—	108,099	108,099	6.02	12.1	271	112,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industria l Park	2.22	0.45	24.4	13.3	0.23	0.38	8.37	8.74	0.36	2.25	2.61	—	25,246	25,246	1.71	3.79	1.61	26,420
Unrefrig erated Wareho use-No Rail	4.37	0.90	48.8	26.1	0.46	0.76	16.7	17.5	0.73	4.49	5.21	—	50,569	50,569	3.37	7.60	3.20	52,922
City Park	0.37	0.32	0.42	3.27	0.01	0.01	1.01	1.02	0.01	0.26	0.26	—	1,067	1,067	0.04	0.05	0.08	1,083
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	10.6	9.62	6.57	106	0.28	0.12	31.6	31.8	0.11	7.99	8.10	—	28,691	28,691	0.93	0.70	2.15	28,926
Total	17.6	11.3	80.2	148	0.98	1.26	57.7	59.0	1.21	15.0	16.2	—	105,573	105,573	6.05	12.1	7.04	109,351
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.39	0.08	4.30	2.31	0.04	0.07	1.44	1.51	0.06	0.39	0.45	—	3,985	3,985	0.27	0.60	4.22	4,174
Unrefrigerated Warehouse-No Rail	0.67	0.14	7.60	4.01	0.07	0.12	2.54	2.66	0.11	0.68	0.80	—	7,053	7,053	0.47	1.06	7.43	7,389
City Park	0.03	0.03	0.04	0.30	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	86.1	86.1	< 0.005	< 0.005	0.11	87.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.76	1.59	1.13	18.4	0.05	0.02	5.21	5.23	0.02	1.32	1.34	—	4,401	4,401	0.14	0.11	5.41	4,443
Total	2.85	1.84	13.1	25.0	0.16	0.20	9.29	9.49	0.19	2.41	2.60	—	15,525	15,525	0.88	1.77	17.2	16,093

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,672
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,853	3,853	0.37	0.04	—	3,875
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.04	0.01	—	448
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,938	9,938	0.95	0.11	—	9,996
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,640	5,640	0.54	0.07	—	5,672
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,853	3,853	0.37	0.04	—	3,875
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.04	0.01	—	448
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	9,938	9,938	0.95	0.11	—	9,996
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	934	934	0.09	0.01	—	939
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	638	638	0.06	0.01	—	642
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	73.7	73.7	0.01	< 0.005	—	74.2
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,645	1,645	0.16	0.02	—	1,655

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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

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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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	26.2	26.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.17	3.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	13.7	12.6	0.65	76.9	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Total	43.0	42.0	0.65	76.9	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	26.2	26.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.17	3.17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.78	4.78	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.58	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.71	1.58	0.08	9.61	< 0.005	0.02	—	0.02	0.01	—	0.01	—	35.8	35.8	< 0.005	< 0.005	—	36.0
Total	7.07	6.93	0.08	9.61	< 0.005	0.02	—	0.02	0.01	—	0.01	—	35.8	35.8	< 0.005	< 0.005	—	36.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	151	536	687	15.5	0.37	—	1,187
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	390	1,313	1,703	40.1	0.96	—	2,993
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	55.6	1.34	—	4,180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	151	536	687	15.5	0.37	—	1,187
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	390	1,313	1,703	40.1	0.96	—	2,993
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	55.6	1.34	—	4,180
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	25.0	88.8	114	2.57	0.06	—	197
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	64.5	217	282	6.64	0.16	—	495
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	89.5	306	396	9.21	0.22	—	692

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	446	0.00	446	44.5	0.00	—	1,559
City Park	—	—	—	—	—	—	—	—	—	—	—	1.57	0.00	1.57	0.16	0.00	—	5.48
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67.4	0.00	—	2,361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	22.8	0.00	—	797
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	446	0.00	446	44.5	0.00	—	1,559
City Park	—	—	—	—	—	—	—	—	—	—	—	1.57	0.00	1.57	0.16	0.00	—	5.48

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67.4	0.00	—	2,361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	37.7	0.00	37.7	3.77	0.00	—	132
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	73.8	0.00	73.8	7.37	0.00	—	258
City Park	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.91
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11.2	0.00	—	391

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	31.9	31.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.27	5.27
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.27	5.27

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	0.79	0.72	2.02	1.84	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.38	8.38	< 0.005	< 0.005	0.00	8.41
Total	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.38	8.38	< 0.005	< 0.005	0.00	8.41

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	164	149	125	57,026	9,444	8,580	7,226	3,286,401
Unrefrigerated Warehouse-No Rail	240	81.3	72.5	70,626	13,880	4,701	4,189	4,082,204
Unrefrigerated Warehouse-No Rail	86.1	69.8	68.8	29,681	4,992	4,047	3,990	1,720,590
City Park	26.0	77.1	87.1	15,340	426	1,265	1,428	251,507
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	2,767	2,012	1,863	923,576	45,373	32,989	30,548	15,142,326

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,830,300	610,100	52,437

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)
Industrial Park	5,945,858	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,555,528	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,506,621	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Parking Lot	469,465	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	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)
Industrial Park	78,786,875	5,474,571
Unrefrigerated Warehouse-No Rail	127,950,625	0.00
Unrefrigerated Warehouse-No Rail	75,433,750	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	422	—
Unrefrigerated Warehouse-No Rail	520	—
Unrefrigerated Warehouse-No Rail	307	—
City Park	2.91	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

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
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	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. 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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.78	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	2	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	2	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	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719

Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
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 provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
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.

16285 Eucalyptus BP Ops Ph2 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	16285 Eucalyptus BP Ops Ph2
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	614	1000sqft	14.1	614,400	682,838	—	—	—
Unrefrigerated Warehouse-No Rail	1,107	1000sqft	25.4	1,106,600	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	587	1000sqft	13.5	587,200	0.00	—	—	HCFC Sort
City Park	71.5	Acre	71.5	0.00	0.00	0.00	—	—
Parking Lot	2,638	Space	23.7	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	19.6	Acre	19.6	0.00	0.00	—	—	—
User Defined Industrial	2,308	User Defined Unit	0.00	0.00	0.00	—	—	PC
Hospital	35.0	1000sqft	0.80	35,000	0.00	—	—	—
Strip Mall	5.00	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000	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.	120	106	151	500	2.08	2.87	128	131	2.70	33.2	35.9	2,544	246,021	248,566	271	26.2	578	263,706
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	99.9	87.9	157	339	2.01	2.69	128	131	2.57	33.2	35.8	2,544	239,606	242,151	271	26.3	73.8	256,827
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	107	95.8	139	387	1.81	2.34	115	117	2.20	29.7	31.9	2,544	216,954	219,499	270	23.5	260	233,508
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.6	17.5	25.3	70.6	0.33	0.43	21.0	21.4	0.40	5.43	5.83	421	35,919	36,341	44.6	3.90	43.1	38,660

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	43.3	31.4	146	394	2.07	2.47	128	131	2.35	33.2	35.6	—	221,678	221,678	11.5	23.4	517	229,442
Area	74.8	73.4	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,642	19,642	1.87	0.23	—	19,756
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.56	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3
Stationary	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	120	106	151	500	2.08	2.87	128	131	2.70	33.2	35.9	2,544	246,021	248,566	271	26.2	578	263,706
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.7	29.8	153	335	2.01	2.47	128	131	2.36	33.2	35.6	—	215,684	215,684	11.6	23.5	13.4	222,986
Area	56.6	56.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,642	19,642	1.87	0.23	—	19,756
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.56	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3
Stationary	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741

Total	99.9	87.9	157	339	2.01	2.69	128	131	2.57	33.2	35.8	2,544	239,606	242,151	271	26.3	73.8	256,827
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38.0	27.4	137	316	1.80	2.19	115	117	2.08	29.7	31.8	—	193,381	193,381	10.3	20.7	200	200,017
Area	69.1	68.1	0.59	70.1	< 0.005	0.12	—	0.12	0.09	—	0.09	—	288	288	0.01	< 0.005	—	289
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,642	19,642	1.87	0.23	—	19,756
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.56	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3
Stationary	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	101	101	< 0.005	< 0.005	0.00	102
Total	107	95.8	139	387	1.81	2.34	115	117	2.20	29.7	31.9	2,544	216,954	219,499	270	23.5	260	233,508
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.94	5.01	25.1	57.7	0.33	0.40	21.0	21.4	0.38	5.43	5.81	—	32,016	32,016	1.71	3.43	33.1	33,115
Area	12.6	12.4	0.11	12.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.7	47.7	< 0.005	< 0.005	—	47.9
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,252	3,252	0.31	0.04	—	3,271
Water	—	—	—	—	—	—	—	—	—	—	—	171	586	758	17.6	0.42	—	1,325
Waste	—	—	—	—	—	—	—	—	—	—	—	250	0.00	250	25.0	0.00	—	874
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.99	9.99
Stationary	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	16.8	16.8	< 0.005	< 0.005	0.00	16.8
Total	19.6	17.5	25.3	70.6	0.33	0.43	21.0	21.4	0.40	5.43	5.83	421	35,919	36,341	44.6	3.90	43.1	38,660

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	3.66	0.78	40.1	22.2	0.40	0.67	15.1	15.8	0.64	4.06	4.70	—	44,448	44,448	2.79	6.68	102	46,610
Unrefrigerated Warehouse-No Rail	7.88	1.68	86.2	47.7	0.86	1.44	32.4	33.8	1.38	8.70	10.1	—	95,484	95,484	6.01	14.4	218	100,131
City Park	0.78	0.68	0.78	8.16	0.02	0.01	2.15	2.17	0.01	0.55	0.56	—	2,374	2,374	0.09	0.10	6.06	2,412
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	19.4	17.7	10.1	230	0.55	0.21	57.8	58.0	0.19	14.6	14.8	—	55,858	55,858	1.57	1.15	132	56,374
Hospital	3.17	2.78	3.21	33.5	0.10	0.06	8.86	8.91	0.05	2.25	2.30	—	9,760	9,760	0.36	0.41	24.9	9,915
Strip Mall	0.90	0.83	0.58	5.48	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,390	1,390	0.07	0.07	3.47	1,415
Fast Food Restaurant with Drive Thru	7.50	6.92	5.02	48.0	0.12	0.08	11.0	11.1	0.07	2.79	2.86	—	12,362	12,362	0.61	0.59	30.9	12,585
Total	43.3	31.4	146	394	2.07	2.47	128	131	2.35	33.2	35.6	—	221,678	221,678	11.5	23.4	517	229,442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	3.64	0.77	41.9	22.2	0.40	0.67	15.1	15.8	0.64	4.06	4.70	—	44,454	44,454	2.79	6.68	2.64	46,518
Unrefrigerated Warehouse-No Rail	7.83	1.64	90.0	47.7	0.86	1.44	32.4	33.8	1.38	8.70	10.1	—	95,497	95,497	6.00	14.4	5.65	99,933
City Park	0.74	0.64	0.84	6.66	0.02	0.01	2.15	2.17	0.01	0.55	0.56	—	2,226	2,226	0.09	0.10	0.16	2,258
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	18.6	16.9	11.2	185	0.51	0.21	57.8	58.0	0.19	14.6	14.8	—	51,449	51,449	1.63	1.24	3.43	51,862
Hospital	3.01	2.62	3.45	27.3	0.09	0.06	8.86	8.91	0.05	2.25	2.30	—	9,148	9,148	0.37	0.42	0.65	9,283
Strip Mall	0.84	0.78	0.62	4.76	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,305	1,305	0.07	0.07	0.09	1,328
Fast Food Restaurant with Drive Thru	7.05	6.47	5.37	41.4	0.11	0.08	11.0	11.1	0.07	2.79	2.87	—	11,605	11,605	0.64	0.61	0.80	11,804
Total	41.7	29.8	153	335	2.01	2.47	128	131	2.36	33.2	35.6	—	215,684	215,684	11.6	23.5	13.4	222,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.64	0.13	7.37	3.86	0.07	0.12	2.60	2.72	0.11	0.70	0.81	—	7,015	7,015	0.44	1.05	6.93	7,347
Unrefrigerated Warehouse-No Rail	1.20	0.25	14.0	7.30	0.13	0.22	4.92	5.14	0.21	1.32	1.53	—	13,272	13,272	0.83	2.00	13.1	13,900

City Park	0.06	0.06	0.08	0.61	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	181	181	0.01	0.01	0.21	184
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	3.07	2.78	1.92	32.1	0.09	0.03	9.49	9.52	0.03	2.40	2.43	—	7,868	7,868	0.25	0.19	8.63	7,940
Hospital	0.54	0.47	0.64	5.16	0.02	0.01	1.59	1.60	0.01	0.40	0.41	—	1,524	1,524	0.06	0.07	1.77	1,548
Strip Mall	0.15	0.14	0.11	0.89	< 0.005	< 0.005	0.22	0.22	< 0.005	0.06	0.06	—	218	218	0.01	0.01	0.25	222
Fast Food Restaurant with Drive Thru	1.27	1.17	0.99	7.79	0.02	0.01	1.98	2.00	0.01	0.50	0.52	—	1,940	1,940	0.11	0.10	2.21	1,975
Total	6.94	5.01	25.1	57.7	0.33	0.40	21.0	21.4	0.38	5.43	5.81	—	32,016	32,016	1.71	3.43	33.1	33,115

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	10,170	10,170	0.97	0.12	—	10,229

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,420	7,420	0.71	0.09	—	7,463
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	859	859	0.08	0.01	—	864
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	980	980	0.09	0.01	—	986
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	46.1	46.1	< 0.005	< 0.005	—	46.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Total	—	—	—	—	—	—	—	—	—	—	—	—	19,642	19,642	1.87	0.23	—	19,756
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	10,170	10,170	0.97	0.12	—	10,229
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7,420	7,420	0.71	0.09	—	7,463
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	859	859	0.08	0.01	—	864
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	980	980	0.09	0.01	—	986
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	46.1	46.1	< 0.005	< 0.005	—	46.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Total	—	—	—	—	—	—	—	—	—	—	—	—	19,642	19,642	1.87	0.23	—	19,756
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,684	1,684	0.16	0.02	—	1,694
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,228	1,228	0.12	0.01	—	1,236
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	142	142	0.01	< 0.005	—	143
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	162	162	0.02	< 0.005	—	163
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.64	7.64	< 0.005	< 0.005	—	7.68
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	27.5	27.5	< 0.005	< 0.005	—	27.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,252	3,252	0.31	0.04	—	3,271

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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

Fast Food Restaurant with Drive Thru	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	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	50.5	50.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.12	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	18.2	16.8	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Total	74.8	73.4	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	50.5	50.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.12	6.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	56.6	56.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	9.22	9.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.12	1.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.28	2.10	0.11	12.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.7	47.7	< 0.005	< 0.005	—	47.9
Total	12.6	12.4	0.11	12.8	< 0.005	0.02	—	0.02	0.02	—	0.02	—	47.7	47.7	< 0.005	< 0.005	—	47.9

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	272	973	1,245	28.0	0.67	—	2,146
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	751	2,529	3,280	77.2	1.86	—	5,763
City Park	—	—	—	—	—	—	—	—	—	—	—	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

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.42	28.4	36.8	0.87	0.02	—	64.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	2.39	3.10	0.07	< 0.005	—	5.45
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.91	9.80	12.7	0.30	0.01	—	22.3
Total	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.56	—	8,002
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	272	973	1,245	28.0	0.67	—	2,146
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	751	2,529	3,280	77.2	1.86	—	5,763
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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

Hospital	—	—	—	—	—	—	—	—	—	—	—	8.42	28.4	36.8	0.87	0.02	—	64.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	2.39	3.10	0.07	< 0.005	—	5.45
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.91	9.80	12.7	0.30	0.01	—	22.3
Total	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.56	—	8,002
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	45.1	161	206	4.64	0.11	—	355
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	124	419	543	12.8	0.31	—	954
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	1.39	4.69	6.09	0.14	< 0.005	—	10.7
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12	0.40	0.51	0.01	< 0.005	—	0.90

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.48	1.62	2.10	0.05	< 0.005	—	3.70
Total	—	—	—	—	—	—	—	—	—	—	—	171	586	758	17.6	0.42	—	1,325

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	411	0.00	411	41.0	0.00	—	1,437
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	858	0.00	858	85.8	0.00	—	3,002
City Park	—	—	—	—	—	—	—	—	—	—	—	3.31	0.00	3.31	0.33	0.00	—	11.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	713

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.83	0.00	2.83	0.28	0.00	—	9.90
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31.0	0.00	31.0	3.10	0.00	—	109
Total	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	411	0.00	411	41.0	0.00	—	1,437
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	858	0.00	858	85.8	0.00	—	3,002
City Park	—	—	—	—	—	—	—	—	—	—	—	3.31	0.00	3.31	0.33	0.00	—	11.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.83	0.00	2.83	0.28	0.00	—	9.90

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31.0	0.00	31.0	3.10	0.00	—	109
Total	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	68.0	0.00	68.0	6.79	0.00	—	238
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14.2	0.00	—	497
City Park	—	—	—	—	—	—	—	—	—	—	—	0.55	0.00	0.55	0.05	0.00	—	1.92
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.64
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.14	0.00	5.14	0.51	0.00	—	18.0
Total	—	—	—	—	—	—	—	—	—	—	—	250	0.00	250	25.0	0.00	—	874

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.4	57.4
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.81	2.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57.4	57.4
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.81	2.81
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60.3	60.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.51	9.51
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.47	0.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.99	9.99

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	1.59	1.44	4.04	3.68	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	16.8	16.8	< 0.005	< 0.005	0.00	16.8
Total	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	16.8	16.8	< 0.005	< 0.005	0.00	16.8

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	296	269	226	103,030	17,084	15,525	13,044	5,943,778

Unrefrigerated Warehouse-No Rail	480	163	145	141,253	27,759	9,402	8,379	8,164,409
Unrefrigerated Warehouse-No Rail	154	125	123	53,061	8,878	7,218	7,116	3,062,179
City Park	56.0	164	185	32,816	918	2,692	3,037	538,024
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	5,090	3,652	3,377	1,693,411	82,837	59,432	54,962	27,561,676
Hospital	753	743	740	273,659	12,487	12,324	12,273	4,538,103
Strip Mall	272	272	269	99,126	1,739	1,737	1,722	633,667
Fast Food Restaurant with Drive Thru	2,241	2,243	2,241	818,046	15,500	15,511	15,500	5,658,065

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	3,529,800	1,176,600	113,174

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)
Industrial Park	10,722,440	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,111,057	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,712,102	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Parking Lot	905,960	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Hospital	1,033,091	346	0.0330	0.0040	0.00
Strip Mall	48,642	346	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	175,333	346	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)
Industrial Park	142,080,000	10,965,780
Unrefrigerated Warehouse-No Rail	255,901,250	0.00
Unrefrigerated Warehouse-No Rail	135,790,000	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

User Defined Industrial	0.00	0.00
Hospital	4,391,819	0.00
Strip Mall	370,363	0.00
Fast Food Restaurant with Drive Thru	1,517,669	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	762	—
Unrefrigerated Warehouse-No Rail	1,040	—
Unrefrigerated Warehouse-No Rail	552	—
City Park	6.15	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
Hospital	378	—
Strip Mall	5.25	—
Fast Food Restaurant with Drive Thru	57.6	—

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
Industrial Park	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
Hospital	Chillers	R-134a	1,430	< 0.005	2.00	2.00	23.0
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	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. 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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.78	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	2	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	2	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	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719

Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
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 provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
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.

16285 Eucalyptus BP Ops Ph3 Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	16285 Eucalyptus BP Ops Ph3
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	18.8
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.30

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	777	1000sqft	17.8	777,000	840,786	—	—	—
Unrefrigerated Warehouse-No Rail	1,270	1000sqft	29.2	1,270,200	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	635	1000sqft	14.6	635,100	0.00	—	—	HCFC Sort
City Park	92.5	Acre	92.5	0.00	0.00	0.00	—	—
Parking Lot	3,325	Space	29.9	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	22.2	Acre	22.2	0.00	0.00	—	—	—
User Defined Industrial	2,894	User Defined Unit	0.00	0.00	0.00	—	—	PC
Hospital	35.0	1000sqft	0.80	35,000	0.00	—	—	—
Strip Mall	5.00	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	5.00	1000sqft	0.11	5,000	0.00	—	—	—
Manufacturing	212	1000sqft	4.86	211,700	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.	143	128	177	581	2.52	3.51	161	165	3.32	41.7	45.0	3,162	292,703	295,866	335	32.1	618	314,417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	119	105	184	385	2.44	3.29	161	164	3.15	41.7	44.8	3,162	285,076	288,239	335	32.2	109	306,326

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	128	115	163	442	2.19	2.88	143	146	2.72	37.0	39.7	3,162	257,751	260,914	334	29.1	297	278,225
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.4	21.0	29.8	80.7	0.40	0.53	26.1	26.6	0.50	6.75	7.24	524	42,674	43,197	55.2	4.82	49.2	46,063

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	47.5	34.4	171	449	2.50	3.02	161	164	2.88	41.7	44.5	—	268,785	268,785	12.6	28.6	523	278,137
Area	93.5	91.7	1.08	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,133	19,133	2.42	0.29	—	19,281
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.20	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Stationary	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	143	128	177	581	2.52	3.51	161	165	3.32	41.7	45.0	3,162	292,703	295,866	335	32.1	618	314,417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	45.9	32.8	179	381	2.43	3.02	161	164	2.88	41.7	44.6	—	261,683	261,683	12.7	28.7	13.6	270,573
Area	70.7	70.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,133	19,133	2.42	0.29	—	19,281
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.20	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Stationary	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	119	105	184	385	2.44	3.29	161	164	3.15	41.7	44.8	3,162	285,076	288,239	335	32.2	109	306,326
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41.4	29.7	162	354	2.19	2.69	143	146	2.56	37.0	39.5	—	234,795	234,795	11.4	25.6	202	242,910
Area	86.3	85.1	0.74	87.6	0.01	0.16	—	0.16	0.12	—	0.12	—	360	360	0.02	< 0.005	—	361
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	19,133	19,133	2.42	0.29	—	19,281
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.20	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Stationary	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	127	127	0.01	< 0.005	0.00	127
Total	128	115	163	442	2.19	2.88	143	146	2.72	37.0	39.7	3,162	257,751	260,914	334	29.1	297	278,225
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.55	5.41	29.6	64.6	0.40	0.49	26.1	26.6	0.47	6.75	7.22	—	38,873	38,873	1.89	4.24	33.4	40,217
Area	15.8	15.5	0.13	16.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	59.6	59.6	< 0.005	< 0.005	—	59.8
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	3,168	3,168	0.40	0.05	—	3,192
Water	—	—	—	—	—	—	—	—	—	—	—	214	552	767	22.0	0.53	—	1,476
Waste	—	—	—	—	—	—	—	—	—	—	—	309	0.00	309	30.9	0.00	—	1,082
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8
Stationary	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	20.9	20.9	< 0.005	< 0.005	0.00	21.0
Total	23.4	21.0	29.8	80.7	0.40	0.53	26.1	26.6	0.50	6.75	7.24	524	42,674	43,197	55.2	4.82	49.2	46,063

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	3.97	0.88	46.3	25.0	0.48	0.81	19.1	19.9	0.78	5.13	5.91	—	53,175	53,175	2.99	8.01	105	55,741
Unrefrigerated Warehouse-No Rail	7.62	1.68	88.9	47.8	0.92	1.56	36.7	38.3	1.49	9.86	11.3	—	102,283	102,283	5.75	15.4	202	107,220
City Park	0.91	0.80	0.90	9.76	0.03	0.02	2.78	2.80	0.02	0.71	0.72	—	2,957	2,957	0.10	0.12	6.03	3,001
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	23.2	21.2	11.7	277	0.70	0.24	75.1	75.3	0.22	19.0	19.2	—	70,337	70,337	1.87	1.40	130	70,932
Hospital	2.88	2.53	2.86	31.0	0.09	0.05	8.85	8.91	0.05	2.25	2.30	—	9,412	9,412	0.33	0.39	19.2	9,555
Strip Mall	0.81	0.75	0.52	5.07	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,340	1,340	0.07	0.06	2.68	1,364
Fast Food Restaurant with Drive Thru	6.81	6.28	4.54	44.4	0.12	0.07	11.0	11.1	0.06	2.79	2.86	—	11,923	11,923	0.56	0.56	23.9	12,129
Manufacturing	1.29	0.28	15.1	8.10	0.16	0.26	6.22	6.49	0.25	1.67	1.92	—	17,357	17,357	0.97	2.62	34.2	18,195

Total	47.5	34.4	171	449	2.50	3.02	161	164	2.88	41.7	44.5	—	268,785	268,785	12.6	28.6	523	278,137
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	3.95	0.86	48.4	25.0	0.48	0.81	19.1	19.9	0.78	5.13	5.91	—	53,183	53,183	2.99	8.01	2.73	55,647
Unrefrigerated Warehouse-No Rail	7.57	1.64	92.9	47.9	0.92	1.56	36.7	38.3	1.49	9.86	11.3	—	102,298	102,298	5.74	15.4	5.24	107,040
City Park	0.87	0.76	0.97	7.96	0.03	0.02	2.78	2.80	0.02	0.71	0.72	—	2,771	2,771	0.11	0.13	0.16	2,811
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	22.3	20.3	13.0	224	0.64	0.24	75.1	75.3	0.22	19.0	19.2	—	64,800	64,800	1.94	1.51	3.37	65,301
Hospital	2.75	2.39	3.07	25.3	0.09	0.05	8.85	8.91	0.05	2.25	2.30	—	8,821	8,821	0.33	0.40	0.50	8,949
Strip Mall	0.77	0.71	0.56	4.40	0.01	0.01	1.23	1.24	0.01	0.31	0.32	—	1,258	1,258	0.07	0.07	0.07	1,280
Fast Food Restaurant with Drive Thru	6.43	5.91	4.86	38.3	0.11	0.07	11.0	11.1	0.06	2.79	2.86	—	11,192	11,192	0.59	0.58	0.62	11,381
Manufacturing	1.28	0.28	15.7	8.11	0.16	0.26	6.22	6.49	0.25	1.67	1.92	—	17,360	17,360	0.97	2.62	0.89	18,165
Total	45.9	32.8	179	381	2.43	3.02	161	164	2.88	41.7	44.6	—	261,683	261,683	12.7	28.7	13.6	270,573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	0.69	0.15	8.51	4.34	0.08	0.14	3.30	3.44	0.14	0.89	1.02	—	8,394	8,394	0.47	1.26	7.18	8,789
Unrefrigerated Warehouse-No Rail	1.16	0.25	14.4	7.31	0.14	0.24	5.56	5.80	0.23	1.49	1.72	—	14,193	14,193	0.80	2.14	12.1	14,862
City Park	0.08	0.07	0.09	0.73	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	224	224	0.01	0.01	0.21	228
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	3.60	3.27	2.17	37.9	0.11	0.04	12.1	12.1	0.04	3.05	3.08	—	9,695	9,695	0.29	0.23	8.29	9,778
Hospital	0.50	0.43	0.57	4.78	0.02	0.01	1.59	1.60	0.01	0.40	0.41	—	1,469	1,469	0.05	0.07	1.37	1,492
Strip Mall	0.14	0.13	0.10	0.83	< 0.005	< 0.005	0.22	0.22	< 0.005	0.06	0.06	—	210	210	0.01	0.01	0.19	214
Fast Food Restaurant with Drive Thru	1.16	1.07	0.90	7.21	0.02	0.01	1.98	1.99	0.01	0.50	0.52	—	1,871	1,871	0.10	0.10	1.71	1,904
Manufacturing	0.23	0.05	2.85	1.45	0.03	0.05	1.10	1.15	0.05	0.30	0.34	—	2,817	2,817	0.16	0.42	2.39	2,950
Total	7.55	5.41	29.6	64.6	0.40	0.49	26.1	26.6	0.47	6.75	7.22	—	38,873	38,873	1.89	4.24	33.4	40,217

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	9,689	9,689	1.23	0.15	—	9,763
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,288	6,288	0.80	0.10	—	6,336
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	816	816	0.10	0.01	—	822
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	738	738	0.09	0.01	—	744
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34.8	34.8	< 0.005	< 0.005	—	35.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.18	0.02	—	1,454
Total	—	—	—	—	—	—	—	—	—	—	—	—	19,133	19,133	2.42	0.29	—	19,281

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	9,689	9,689	1.23	0.15	—	9,763
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	6,288	6,288	0.80	0.10	—	6,336
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	816	816	0.10	0.01	—	822
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	738	738	0.09	0.01	—	744
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	34.8	34.8	< 0.005	< 0.005	—	35.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	1,443	1,443	0.18	0.02	—	1,454
Total	—	—	—	—	—	—	—	—	—	—	—	—	19,133	19,133	2.42	0.29	—	19,281
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	1,604	1,604	0.20	0.02	—	1,616

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,041	1,041	0.13	0.02	—	1,049
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	—	136
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	5.75	5.75	< 0.005	< 0.005	—	5.80
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	20.7	20.7	< 0.005	< 0.005	—	20.9
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	239	239	0.03	< 0.005	—	241
Total	—	—	—	—	—	—	—	—	—	—	—	—	3,168	3,168	0.40	0.05	—	3,192

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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

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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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

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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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	63.1	63.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.64	7.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	22.8	21.0	1.08	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Total	93.5	91.7	1.08	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	63.1	63.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.64	7.64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	70.7	70.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	11.5	11.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.39	1.39	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.85	2.63	0.13	16.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	59.6	59.6	< 0.005	< 0.005	—	59.8
Total	15.8	15.5	0.13	16.0	< 0.005	0.03	—	0.03	0.02	—	0.02	—	59.6	59.6	< 0.005	< 0.005	—	59.8

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	925	1,269	35.4	0.85	—	2,409
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	844	2,143	2,987	86.8	2.09	—	5,781
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.42	21.4	29.8	0.87	0.02	—	57.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	1.80	2.51	0.07	< 0.005	—	4.86
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.91	7.38	10.3	0.30	0.01	—	19.9
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	93.8	238	332	9.65	0.23	—	642
Total	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.20	—	8,915

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	925	1,269	35.4	0.85	—	2,409
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	844	2,143	2,987	86.8	2.09	—	5,781
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.42	21.4	29.8	0.87	0.02	—	57.6
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	1.80	2.51	0.07	< 0.005	—	4.86
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.91	7.38	10.3	0.30	0.01	—	19.9
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	93.8	238	332	9.65	0.23	—	642
Total	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.20	—	8,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	57.0	153	210	5.86	0.14	—	399

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	355	495	14.4	0.35	—	957
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	1.39	3.54	4.93	0.14	< 0.005	—	9.54
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12	0.30	0.42	0.01	< 0.005	—	0.80
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.48	1.22	1.70	0.05	< 0.005	—	3.30
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	15.5	39.4	55.0	1.60	0.04	—	106
Total	—	—	—	—	—	—	—	—	—	—	—	214	552	767	22.0	0.53	—	1,476

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	519	0.00	519	51.9	0.00	—	1,817
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	965	0.00	965	96.5	0.00	—	3,377
City Park	—	—	—	—	—	—	—	—	—	—	—	4.29	0.00	4.29	0.43	0.00	—	15.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.83	0.00	2.83	0.28	0.00	—	9.90
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31.0	0.00	31.0	3.10	0.00	—	109
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14.1	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	519	0.00	519	51.9	0.00	—	1,817

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	965	0.00	965	96.5	0.00	—	3,377
City Park	—	—	—	—	—	—	—	—	—	—	—	4.29	0.00	4.29	0.43	0.00	—	15.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20.4	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.83	0.00	2.83	0.28	0.00	—	9.90
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31.0	0.00	31.0	3.10	0.00	—	109
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14.1	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	86.0	0.00	86.0	8.59	0.00	—	301
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	160	0.00	160	16.0	0.00	—	559
City Park	—	—	—	—	—	—	—	—	—	—	—	0.71	0.00	0.71	0.07	0.00	—	2.48

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	33.7	0.00	33.7	3.37	0.00	—	118
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.64
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.14	0.00	5.14	0.51	0.00	—	18.0
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	23.4	0.00	23.4	2.34	0.00	—	81.9
Total	—	—	—	—	—	—	—	—	—	—	—	309	0.00	309	30.9	0.00	—	1,082

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.6	72.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.81	2.81
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.8	19.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	72.6	72.6
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.81	2.81
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.8	19.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95.3	95.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12.0	12.0

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.47	0.47
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.28	3.28
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.8	15.8

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	1.98	1.80	5.05	4.60	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	20.9	20.9	< 0.005	< 0.005	0.00	21.0
Total	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	20.9	20.9	< 0.005	< 0.005	0.00	21.0

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	376	342	287	130,863	21,680	19,709	16,574	7,544,278
Unrefrigerated Warehouse-No Rail	553	187	168	162,533	31,926	10,789	9,688	9,391,155
Unrefrigerated Warehouse-No Rail	168	136	135	57,986	9,716	7,846	7,773	3,347,531
City Park	72.0	212	239	42,285	1,180	3,474	3,922	693,278

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	6,607	4,274	3,936	2,150,647	107,687	69,668	64,150	35,053,111
Hospital	753	743	740	273,659	12,487	12,324	12,273	4,538,103
Strip Mall	272	272	269	99,126	1,739	1,737	1,722	633,667
Fast Food Restaurant with Drive Thru	2,241	2,243	2,241	818,046	15,500	15,511	15,500	5,658,065
Manufacturing	122	117	109	43,625	7,057	6,799	6,334	2,524,562

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	4,408,500	1,469,500	136,260

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	13,560,117	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	5,866,677	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,933,338	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Parking Lot	1,141,895	261	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Hospital	1,033,091	261	0.0330	0.0040	0.00
Strip Mall	48,642	261	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	175,333	261	0.0330	0.0040	0.00
Manufacturing	2,019,136	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)
Industrial Park	179,681,250	13,502,286
Unrefrigerated Warehouse-No Rail	293,733,750	0.00
Unrefrigerated Warehouse-No Rail	146,866,875	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

Hospital	4,391,819	0.00
Strip Mall	370,363	0.00
Fast Food Restaurant with Drive Thru	1,517,669	0.00
Manufacturing	48,955,625	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	963	—
Unrefrigerated Warehouse-No Rail	1,194	—
Unrefrigerated Warehouse-No Rail	597	—
City Park	7.95	—
Parking Lot	0.00	—
Other Non-Asphalt Surfaces	0.00	—
User Defined Industrial	0.00	—
Hospital	378	—
Strip Mall	5.25	—
Fast Food Restaurant with Drive Thru	57.6	—
Manufacturing	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
Industrial Park	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
Hospital	Chillers	R-134a	1,430	< 0.005	2.00	2.00	23.0
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	0.73
Fire Pump	Diesel	1.00	1.00	50.0	220	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. 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	19.8	annual days of extreme heat
Extreme Precipitation	3.10	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.78	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	2	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	2	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	77.1
AQ-PM	93.4
AQ-DPM	57.1
Drinking Water	100.0
Lead Risk Housing	17.5
Pesticides	84.9
Toxic Releases	67.6
Traffic	18.1
Effect Indicators	—
CleanUp Sites	80.3
Groundwater	98.1
Haz Waste Facilities/Generators	86.6
Impaired Water Bodies	87.0
Solid Waste	98.9
Sensitive Population	—
Asthma	16.5
Cardio-vascular	29.1
Low Birth Weights	49.0
Socioeconomic Factor Indicators	—
Education	52.9
Housing	59.3
Linguistic	68.9
Poverty	35.4
Unemployment	36.4

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719

Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72.0
Healthy Places Index Score for Project Location (b)	55.0
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 provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
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.

16285 Eucalyptus BP Ops Ph1 Mitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Ops Ph1 Mitigated
Operational Year	2028
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	341	1000sqft	7.8	340,700	340,901	—	—	—
Unrefrigerated Warehouse-No Rail	553	1000sqft	13	553,300	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	326	1000sqft	7.5	326,200	0.00	—	—	HCFC Sort
City Park	34	Acre	34	0.00	0.00	0.00	—	—
Parking Lot	1,367	Space	12	546,800	0.00	—	—	—
Other Non-Asphalt Surfaces	7.8	Acre	7.8	0.00	0.00	—	—	—
User Defined Industrial	1,220	User Defined Unit	0.00	0.00	0.00	—	—	PC

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.	62	55	79	253	1.0	1.5	58	59	1.4	15	16	1,216	116,300	117,515	130	14	303	125,083
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	48	41	82	150	0.98	1.4	58	59	1.3	15	16	1,216	113,457	114,673	130	14	39	121,993
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54	48	72	190	0.87	1.2	51	52	1.1	13	14	1,216	101,557	102,772	129	12	136	109,739
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.9	8.8	13	35	0.16	0.22	9.3	9.5	0.21	2.4	2.6	201	16,814	17,015	21	2.0	22	18,169

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	18	12	76	175	1.0	1.3	58	59	1.2	15	16	—	108,099	108,099	6.0	12	271	112,123
Area	43	42	0.65	77	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	5,666	5,666	0.54	0.07	—	5,699
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	56	1.3	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
Stationary	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	62	55	79	253	1.0	1.5	58	59	1.4	15	16	1,216	116,300	117,515	130	14	303	125,083
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	18	11	80	148	0.98	1.3	58	59	1.2	15	16	—	105,573	105,573	6.1	12	7.0	109,351
Area	29	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	5,666	5,666	0.54	0.07	—	5,699
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	56	1.3	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
Stationary	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	48	41	82	150	0.98	1.4	58	59	1.3	15	16	1,216	113,457	114,673	130	14	39	121,993
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16	10	72	137	0.87	1.1	51	52	1.1	13	14	—	93,774	93,774	5.3	11	104	97,200

Area	39	38	0.44	53	< 0.005	0.09	—	0.09	0.07	—	0.07	—	216	216	0.01	< 0.005	—	217
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	5,666	5,666	0.54	0.07	—	5,699
Water	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	56	1.3	—	4,180
Waste	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67	0.00	—	2,361
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
Stationary	0.11	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	51	51	< 0.005	< 0.005	0.00	51
Total	54	48	72	190	0.87	1.2	51	52	1.1	13	14	1,216	101,557	102,772	129	12	136	109,739
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.8	1.8	13	25	0.16	0.20	9.3	9.5	0.19	2.4	2.6	—	15,525	15,525	0.88	1.8	17	16,093
Area	7.1	6.9	0.08	9.6	< 0.005	0.02	—	0.02	0.01	—	0.01	—	36	36	< 0.005	< 0.005	—	36
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	938	938	0.09	0.01	—	944
Water	—	—	—	—	—	—	—	—	—	—	—	90	306	396	9.2	0.22	—	692
Waste	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11	0.00	—	391
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.3	5.3
Stationary	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.4	8.4	< 0.005	< 0.005	0.00	8.4
Total	9.9	8.8	13	35	0.16	0.22	9.3	9.5	0.21	2.4	2.6	201	16,814	17,015	21	2.0	22	18,169

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	2.2	0.46	23	13	0.23	0.38	8.4	8.7	0.36	2.2	2.6	—	25,243	25,243	1.7	3.8	62	26,477
Unrefrigerated Warehouse-No Rail	4.4	0.92	47	26	0.46	0.76	17	17	0.72	4.5	5.2	—	50,562	50,562	3.4	7.6	123	53,035
City Park	0.39	0.34	0.39	4.0	0.01	0.01	1.0	1.0	0.01	0.26	0.26	—	1,138	1,138	0.04	0.05	3.2	1,157
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	11	10	5.9	131	0.31	0.12	32	32	0.11	8.0	8.1	—	31,155	31,155	0.90	0.65	83	31,455
Total	18	12	76	175	1.0	1.3	58	59	1.2	15	16	—	108,099	108,099	6.0	12	271	112,123
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	2.2	0.45	24	13	0.23	0.38	8.4	8.7	0.36	2.2	2.6	—	25,246	25,246	1.7	3.8	1.6	26,420
Unrefrigerated Warehouse-No Rail	4.4	0.90	49	26	0.46	0.76	17	17	0.73	4.5	5.2	—	50,569	50,569	3.4	7.6	3.2	52,922
City Park	0.37	0.32	0.42	3.3	0.01	0.01	1.0	1.0	0.01	0.26	0.26	—	1,067	1,067	0.04	0.05	0.08	1,083
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

User Defined Industrial	11	9.6	6.6	106	0.28	0.12	32	32	0.11	8.0	8.1	—	28,691	28,691	0.93	0.70	2.1	28,926
Total	18	11	80	148	0.98	1.3	58	59	1.2	15	16	—	105,573	105,573	6.1	12	7.0	109,351
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.39	0.08	4.3	2.3	0.04	0.07	1.4	1.5	0.06	0.39	0.45	—	3,985	3,985	0.27	0.60	4.2	4,174
Unrefrigerated Warehouse-No Rail	0.67	0.14	7.6	4.0	0.07	0.12	2.5	2.7	0.11	0.68	0.80	—	7,053	7,053	0.47	1.1	7.4	7,389
City Park	0.03	0.03	0.04	0.30	< 0.005	< 0.005	0.09	0.09	< 0.005	0.02	0.02	—	86	86	< 0.005	< 0.005	0.11	87
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	1.8	1.6	1.1	18	0.05	0.02	5.2	5.2	0.02	1.3	1.3	—	4,401	4,401	0.14	0.11	5.4	4,443
Total	2.8	1.8	13	25	0.16	0.20	9.3	9.5	0.19	2.4	2.6	—	15,525	15,525	0.88	1.8	17	16,093

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	—	—	—	—	—	—	—	—	—	—	—	—	3,102	3,102	0.30	0.04	—	3,120
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,119	2,119	0.20	0.02	—	2,131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.04	0.01	—	448
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,666	5,666	0.54	0.07	—	5,699
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	3,102	3,102	0.30	0.04	—	3,120
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	2,119	2,119	0.20	0.02	—	2,131
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	445	445	0.04	0.01	—	448
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,666	5,666	0.54	0.07	—	5,699
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	514	514	0.05	0.01	—	517
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	351	351	0.03	< 0.005	—	353
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	74	74	0.01	< 0.005	—	74
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	938	938	0.09	0.01	—	944

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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

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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
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	26	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.2	3.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	14	13	0.65	77	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Total	43	42	0.65	77	< 0.005	0.14	—	0.14	0.10	—	0.10	—	316	316	0.01	< 0.005	—	317
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	26	26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.2	3.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	29	29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	4.8	4.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.58	0.58	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.7	1.6	0.08	9.6	< 0.005	0.02	—	0.02	0.01	—	0.01	—	36	36	< 0.005	< 0.005	—	36
Total	7.1	6.9	0.08	9.6	< 0.005	0.02	—	0.02	0.01	—	0.01	—	36	36	< 0.005	< 0.005	—	36

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	151	536	687	16	0.37	—	1,187
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	390	1,313	1,703	40	0.96	—	2,993
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	56	1.3	—	4,180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	151	536	687	16	0.37	—	1,187
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	390	1,313	1,703	40	0.96	—	2,993
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	541	1,849	2,390	56	1.3	—	4,180
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	25	89	114	2.6	0.06	—	197
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	65	217	282	6.6	0.16	—	495
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Total	—	—	—	—	—	—	—	—	—	—	—	90	306	396	9.2	0.22	—	692

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	23	0.00	—	797
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	446	0.00	446	45	0.00	—	1,559
City Park	—	—	—	—	—	—	—	—	—	—	—	1.6	0.00	1.6	0.16	0.00	—	5.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67	0.00	—	2,361
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	228	0.00	228	23	0.00	—	797
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	446	0.00	446	45	0.00	—	1,559
City Park	—	—	—	—	—	—	—	—	—	—	—	1.6	0.00	1.6	0.16	0.00	—	5.5

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	675	0.00	675	67	0.00	—	2,361
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	38	0.00	38	3.8	0.00	—	132
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	74	0.00	74	7.4	0.00	—	258
City Park	—	—	—	—	—	—	—	—	—	—	—	0.26	0.00	0.26	0.03	0.00	—	0.91
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	112	0.00	112	11	0.00	—	391

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	32	32
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.3	5.3
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	5.3	5.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Total	0.79	0.72	2.0	1.8	< 0.005	0.11	0.00	0.11	0.11	0.00	0.11	0.00	369	369	0.01	< 0.005	0.00	371
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Fire Pump	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.4	8.4	< 0.005	< 0.005	0.00	8.4
Total	0.02	0.02	0.05	0.05	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	8.4	8.4	< 0.005	< 0.005	0.00	8.4

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	164	149	125	57,026	9,444	8,580	7,226	3,286,401
Unrefrigerated Warehouse-No Rail	240	81	72	70,626	13,880	4,701	4,189	4,082,204
Unrefrigerated Warehouse-No Rail	86	70	69	29,681	4,992	4,047	3,990	1,720,590
City Park	26	77	87	15,340	426	1,265	1,428	251,507
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	2,767	2,012	1,863	923,576	45,373	32,989	30,548	15,142,326

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Industrial Park	Wood Fireplaces	0	0
Industrial Park	Gas Fireplaces	0	0
Industrial Park	Propane Fireplaces	0	0
Industrial Park	Electric Fireplaces	0	0
Industrial Park	No Fireplaces	0	0
Industrial Park	Conventional Wood Stoves	0	0
Industrial Park	Catalytic Wood Stoves	0	0
Industrial Park	Non-Catalytic Wood Stoves	0	0
Industrial Park	Pellet Wood Stoves	0	0

Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0

Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	1,830,300	610,100	52,437

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)
Industrial Park	3,270,222	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,405,541	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	828,642	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Parking Lot	469,465	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	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)
Industrial Park	78,786,875	5,474,571

Unrefrigerated Warehouse-No Rail	127,950,625	0.00
Unrefrigerated Warehouse-No Rail	75,433,750	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	422	0.00
Unrefrigerated Warehouse-No Rail	520	0.00
Unrefrigerated Warehouse-No Rail	307	0.00
City Park	2.9	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.0	4.0	18
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73

5.16.2. Process Boilers

5.17. User Defined

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	20	annual days of extreme heat
Extreme Precipitation	3.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.8	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	2	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	2	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	77
AQ-PM	93
AQ-DPM	57
Drinking Water	100
Lead Risk Housing	17
Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99
Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—

Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7

English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72
Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Construction schedule provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
Operations: Energy Use	Project will not use natural gas. Project will install solar to offset 45% of the industrial electrical demand.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

16285 Eucalyptus BP Ops Ph2 Mitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Ops Ph2 Mitigated
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	614	1000sqft	14	614,400	682,838	—	—	—
Unrefrigerated Warehouse-No Rail	1,107	1000sqft	25	1,106,600	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	587	1000sqft	13	587,200	0.00	—	—	HCFC Sort
City Park	72	Acre	72	0.00	0.00	0.00	—	—
Parking Lot	2,638	Space	24	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	20	Acre	20	0.00	0.00	—	—	—
User Defined Industrial	2,308	User Defined Unit	0.00	0.00	0.00	—	—	PC
Hospital	35	1000sqft	0.80	35,000	0.00	—	—	—
Strip Mall	5.0	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	5.0	1000sqft	0.11	5,000	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.	120	106	151	500	2.1	2.9	128	131	2.7	33	36	2,544	238,106	240,650	270	26	578	255,744
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	100	88	157	339	2.0	2.7	128	131	2.6	33	36	2,544	231,691	234,235	270	26	74	248,865
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	107	96	139	387	1.8	2.3	115	117	2.2	30	32	2,544	209,039	211,583	269	23	260	225,546
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20	17	25	71	0.33	0.43	21	21	0.40	5.4	5.8	421	34,609	35,030	44	3.9	43	37,342

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	43	31	146	394	2.1	2.5	128	131	2.4	33	36	—	221,678	221,678	11	23	517	229,442
Area	75	73	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,726	11,726	1.1	0.14	—	11,795
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.6	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
Stationary	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	120	106	151	500	2.1	2.9	128	131	2.7	33	36	2,544	238,106	240,650	270	26	578	255,744
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	42	30	153	335	2.0	2.5	128	131	2.4	33	36	—	215,684	215,684	12	23	13	222,986
Area	57	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,726	11,726	1.1	0.14	—	11,795
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.6	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
Stationary	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741

Total	100	88	157	339	2.0	2.7	128	131	2.6	33	36	2,544	231,691	234,235	270	26	74	248,865
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	38	27	137	316	1.8	2.2	115	117	2.1	30	32	—	193,381	193,381	10	21	200	200,017
Area	69	68	0.59	70	< 0.005	0.12	—	0.12	0.09	—	0.09	—	288	288	0.01	< 0.005	—	289
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,726	11,726	1.1	0.14	—	11,795
Water	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.6	—	8,002
Waste	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
Stationary	0.22	0.20	0.55	0.50	< 0.005	0.03	0.00	0.03	0.03	0.00	0.03	0.00	101	101	< 0.005	< 0.005	0.00	102
Total	107	96	139	387	1.8	2.3	115	117	2.2	30	32	2,544	209,039	211,583	269	23	260	225,546
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.9	5.0	25	58	0.33	0.40	21	21	0.38	5.4	5.8	—	32,016	32,016	1.7	3.4	33	33,115
Area	13	12	0.11	13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48	48	< 0.005	< 0.005	—	48
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,941	1,941	0.19	0.02	—	1,953
Water	—	—	—	—	—	—	—	—	—	—	—	171	586	758	18	0.42	—	1,325
Waste	—	—	—	—	—	—	—	—	—	—	—	250	0.00	250	25	0.00	—	874
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0
Stationary	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17	17	< 0.005	< 0.005	0.00	17
Total	20	17	25	71	0.33	0.43	21	21	0.40	5.4	5.8	421	34,609	35,030	44	3.9	43	37,342

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	3.7	0.78	40	22	0.40	0.67	15	16	0.64	4.1	4.7	—	44,448	44,448	2.8	6.7	102	46,610
Unrefrigerated Warehouse-No Rail	7.9	1.7	86	48	0.86	1.4	32	34	1.4	8.7	10	—	95,484	95,484	6.0	14	218	100,131
City Park	0.78	0.68	0.78	8.2	0.02	0.01	2.2	2.2	0.01	0.55	0.56	—	2,374	2,374	0.09	0.10	6.1	2,412
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	19	18	10	230	0.55	0.21	58	58	0.19	15	15	—	55,858	55,858	1.6	1.2	132	56,374
Hospital	3.2	2.8	3.2	33	0.10	0.06	8.9	8.9	0.05	2.2	2.3	—	9,760	9,760	0.36	0.41	25	9,915
Strip Mall	0.90	0.83	0.58	5.5	0.01	0.01	1.2	1.2	0.01	0.31	0.32	—	1,390	1,390	0.07	0.07	3.5	1,415
Fast Food Restaurant with Drive Thru	7.5	6.9	5.0	48	0.12	0.08	11	11	0.07	2.8	2.9	—	12,362	12,362	0.61	0.59	31	12,585
Total	43	31	146	394	2.1	2.5	128	131	2.4	33	36	—	221,678	221,678	11	23	517	229,442
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial	3.6	0.77	42	22	0.40	0.67	15	16	0.64	4.1	4.7	—	44,454	44,454	2.8	6.7	2.6	46,518
Unrefrigerated Warehouse-No Rail	7.8	1.6	90	48	0.86	1.4	32	34	1.4	8.7	10	—	95,497	95,497	6.0	14	5.7	99,933
City Park	0.74	0.64	0.84	6.7	0.02	0.01	2.2	2.2	0.01	0.55	0.56	—	2,226	2,226	0.09	0.10	0.16	2,258
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	19	17	11	185	0.51	0.21	58	58	0.19	15	15	—	51,449	51,449	1.6	1.2	3.4	51,862
Hospital	3.0	2.6	3.4	27	0.09	0.06	8.9	8.9	0.05	2.2	2.3	—	9,148	9,148	0.37	0.42	0.65	9,283
Strip Mall	0.84	0.78	0.62	4.8	0.01	0.01	1.2	1.2	0.01	0.31	0.32	—	1,305	1,305	0.07	0.07	0.09	1,328
Fast Food Restaurant with Drive Thru	7.1	6.5	5.4	41	0.11	0.08	11	11	0.07	2.8	2.9	—	11,605	11,605	0.64	0.61	0.80	11,804
Total	42	30	153	335	2.0	2.5	128	131	2.4	33	36	—	215,684	215,684	12	23	13	222,986
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	0.64	0.13	7.4	3.9	0.07	0.12	2.6	2.7	0.11	0.70	0.81	—	7,015	7,015	0.44	1.1	6.9	7,347
Unrefrigerated Warehouse-No Rail	1.2	0.25	14	7.3	0.13	0.22	4.9	5.1	0.21	1.3	1.5	—	13,272	13,272	0.83	2.0	13	13,900

City Park	0.06	0.06	0.08	0.61	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	181	181	0.01	0.01	0.21	184
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	3.1	2.8	1.9	32	0.09	0.03	9.5	9.5	0.03	2.4	2.4	—	7,868	7,868	0.25	0.19	8.6	7,940
Hospital	0.54	0.47	0.64	5.2	0.02	0.01	1.6	1.6	0.01	0.40	0.41	—	1,524	1,524	0.06	0.07	1.8	1,548
Strip Mall	0.15	0.14	0.11	0.89	< 0.005	< 0.005	0.22	0.22	< 0.005	0.06	0.06	—	218	218	0.01	0.01	0.25	222
Fast Food Restaurant with Drive Thru	1.3	1.2	0.99	7.8	0.02	0.01	2.0	2.0	0.01	0.50	0.52	—	1,940	1,940	0.11	0.10	2.2	1,975
Total	6.9	5.0	25	58	0.33	0.40	21	21	0.38	5.4	5.8	—	32,016	32,016	1.7	3.4	33	33,115

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,594	5,594	0.53	0.06	—	5,626

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,081	4,081	0.39	0.05	—	4,105
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	859	859	0.08	0.01	—	864
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	980	980	0.09	0.01	—	986
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	46	46	< 0.005	< 0.005	—	46
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,726	11,726	1.1	0.14	—	11,795
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,594	5,594	0.53	0.06	—	5,626
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	4,081	4,081	0.39	0.05	—	4,105
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	859	859	0.08	0.01	—	864
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	980	980	0.09	0.01	—	986
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	46	46	< 0.005	< 0.005	—	46
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	166	166	0.02	< 0.005	—	167
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,726	11,726	1.1	0.14	—	11,795
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	926	926	0.09	0.01	—	931
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	676	676	0.06	0.01	—	680
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	142	142	0.01	< 0.005	—	143
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	162	162	0.02	< 0.005	—	163
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	7.6	7.6	< 0.005	< 0.005	—	7.7
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	28	28	< 0.005	< 0.005	—	28
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,941	1,941	0.19	0.02	—	1,953

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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

Fast Food Restaurant with Drive Thru	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	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	51	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.1	6.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	18	17	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Total	75	73	0.86	102	0.01	0.18	—	0.18	0.14	—	0.14	—	421	421	0.02	< 0.005	—	422
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	51	51	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	6.1	6.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	57	57	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consumer Product	9.2	9.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.1	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.3	2.1	0.11	13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48	48	< 0.005	< 0.005	—	48
Total	13	12	0.11	13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	48	48	< 0.005	< 0.005	—	48

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	272	973	1,245	28	0.67	—	2,146
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	751	2,529	3,280	77	1.9	—	5,763
City Park	—	—	—	—	—	—	—	—	—	—	—	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

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.4	28	37	0.87	0.02	—	65
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	2.4	3.1	0.07	< 0.005	—	5.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.9	9.8	13	0.30	0.01	—	22
Total	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.6	—	8,002
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	272	973	1,245	28	0.67	—	2,146
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	751	2,529	3,280	77	1.9	—	5,763
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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

Hospital	—	—	—	—	—	—	—	—	—	—	—	8.4	28	37	0.87	0.02	—	65
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	2.4	3.1	0.07	< 0.005	—	5.4
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.9	9.8	13	0.30	0.01	—	22
Total	—	—	—	—	—	—	—	—	—	—	—	1,035	3,542	4,577	106	2.6	—	8,002
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	45	161	206	4.6	0.11	—	355
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	124	419	543	13	0.31	—	954
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	1.4	4.7	6.1	0.14	< 0.005	—	11
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12	0.40	0.51	0.01	< 0.005	—	0.90

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.48	1.6	2.1	0.05	< 0.005	—	3.7
Total	—	—	—	—	—	—	—	—	—	—	—	171	586	758	18	0.42	—	1,325

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	411	0.00	411	41	0.00	—	1,437
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	858	0.00	858	86	0.00	—	3,002
City Park	—	—	—	—	—	—	—	—	—	—	—	3.3	0.00	3.3	0.33	0.00	—	12
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20	0.00	—	713

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.8	0.00	2.8	0.28	0.00	—	9.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31	0.00	31	3.1	0.00	—	109
Total	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	411	0.00	411	41	0.00	—	1,437
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	858	0.00	858	86	0.00	—	3,002
City Park	—	—	—	—	—	—	—	—	—	—	—	3.3	0.00	3.3	0.33	0.00	—	12
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.8	0.00	2.8	0.28	0.00	—	9.9

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31	0.00	31	3.1	0.00	—	109
Total	—	—	—	—	—	—	—	—	—	—	—	1,510	0.00	1,510	151	0.00	—	5,282
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	68	0.00	68	6.8	0.00	—	238
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	142	0.00	142	14	0.00	—	497
City Park	—	—	—	—	—	—	—	—	—	—	—	0.55	0.00	0.55	0.05	0.00	—	1.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	34	0.00	34	3.4	0.00	—	118
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.1	0.00	5.1	0.51	0.00	—	18
Total	—	—	—	—	—	—	—	—	—	—	—	250	0.00	250	25	0.00	—	874

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57	57
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	2.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	57	57
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	2.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	60	60
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9.5	9.5
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.47	0.47
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10.0	10.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Total	1.6	1.4	4.0	3.7	0.01	0.21	0.00	0.21	0.21	0.00	0.21	0.00	739	739	0.03	0.01	0.00	741
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17	17	< 0.005	< 0.005	0.00	17
Total	0.04	0.04	0.10	0.09	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	17	17	< 0.005	< 0.005	0.00	17

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	296	269	226	103,030	17,084	15,525	13,044	5,943,778

Unrefrigerated Warehouse-No Rail	480	163	145	141,253	27,759	9,402	8,379	8,164,409
Unrefrigerated Warehouse-No Rail	154	125	123	53,061	8,878	7,218	7,116	3,062,179
City Park	56	164	185	32,816	918	2,692	3,037	538,024
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	5,090	3,652	3,377	1,693,411	82,837	59,432	54,962	27,561,676
Hospital	753	743	740	273,659	12,487	12,324	12,273	4,538,103
Strip Mall	272	272	269	99,126	1,739	1,737	1,722	633,667
Fast Food Restaurant with Drive Thru	2,241	2,243	2,241	818,046	15,500	15,511	15,500	5,658,065

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Industrial Park	Wood Fireplaces	0	0
Industrial Park	Gas Fireplaces	0	0
Industrial Park	Propane Fireplaces	0	0
Industrial Park	Electric Fireplaces	0	0
Industrial Park	No Fireplaces	0	0
Industrial Park	Conventional Wood Stoves	0	0
Industrial Park	Catalytic Wood Stoves	0	0
Industrial Park	Non-Catalytic Wood Stoves	0	0
Industrial Park	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0

Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Hospital	Wood Fireplaces	0	0
Hospital	Gas Fireplaces	0	0
Hospital	Propane Fireplaces	0	0

Hospital	Electric Fireplaces	0	0
Hospital	No Fireplaces	0	0
Hospital	Conventional Wood Stoves	0	0
Hospital	Catalytic Wood Stoves	0	0
Hospital	Non-Catalytic Wood Stoves	0	0
Hospital	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Gas Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Electric Fireplaces	0	0
Fast Food Restaurant with Drive Thru	No Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Pellet Wood Stoves	0	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)

undefined	0.00	0.00	3,529,800	1,176,600	113,174

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)
Industrial Park	5,897,342	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	2,811,081	346	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,491,656	346	0.0330	0.0040	0.00
City Park	0.00	346	0.0330	0.0040	0.00
Parking Lot	905,960	346	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	346	0.0330	0.0040	0.00
User Defined Industrial	0.00	346	0.0330	0.0040	0.00
Hospital	1,033,091	346	0.0330	0.0040	0.00
Strip Mall	48,642	346	0.0330	0.0040	0.00
Fast Food Restaurant with Drive Thru	175,333	346	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)
Industrial Park	142,080,000	10,965,780
Unrefrigerated Warehouse-No Rail	255,901,250	0.00
Unrefrigerated Warehouse-No Rail	135,790,000	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Hospital	4,391,819	0.00
Strip Mall	370,363	0.00
Fast Food Restaurant with Drive Thru	1,517,669	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	762	0.00
Unrefrigerated Warehouse-No Rail	1,040	0.00
Unrefrigerated Warehouse-No Rail	552	0.00
City Park	6.1	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Hospital	378	0.00
Strip Mall	5.3	0.00
Fast Food Restaurant with Drive Thru	58	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.0	4.0	18
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hospital	Chillers	R-134a	1,430	< 0.005	2.0	2.0	23
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
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	7.5	7.5	20
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.8	4.0	4.0	18
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73

5.16.2. Process Boilers

5.17. User Defined

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	20	annual days of extreme heat
Extreme Precipitation	3.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.8	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	2	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	2	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	77
AQ-PM	93
AQ-DPM	57
Drinking Water	100
Lead Risk Housing	17
Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99
Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635
Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719

Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1
Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72
Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Construction schedule provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
Operations: Energy Use	Project will not use natural gas. Project will install solar to offset 45% of the industrial electrical demand.
Operations: Refrigerants	Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

16285 Eucalyptus BP Ops Ph3 Mitigated Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

1.2. Land Use Types

1.3. User-Selected Emission Reduction Measures by Emissions Sector

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

8.1. Justifications

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	16285 Eucalyptus BP Ops Ph3 Mitigated
Operational Year	2031
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.6
Precipitation (days)	19
Location	33.99285819539165, -117.62442182650997
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5260
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.35

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Industrial Park	777	1000sqft	18	777,000	840,786	—	—	—
Unrefrigerated Warehouse-No Rail	1,270	1000sqft	29	1,270,200	0.00	—	—	Warehousing

Unrefrigerated Warehouse-No Rail	635	1000sqft	15	635,100	0.00	—	—	HCFC Sort
City Park	93	Acre	93	0.00	0.00	0.00	—	—
Parking Lot	3,325	Space	30	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	22	Acre	22	0.00	0.00	—	—	—
User Defined Industrial	2,894	User Defined Unit	0.00	0.00	0.00	—	—	PC
Hospital	35	1000sqft	0.80	35,000	0.00	—	—	—
Strip Mall	5.0	1000sqft	0.11	5,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	5.0	1000sqft	0.11	5,000	0.00	—	—	—
Manufacturing	212	1000sqft	4.9	211,700	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.	143	128	177	581	2.5	3.5	161	165	3.3	42	45	3,162	284,865	288,027	334	32	618	306,518
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	119	105	184	385	2.4	3.3	161	164	3.1	42	45	3,162	277,238	280,400	334	32	109	298,427

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	128	115	163	442	2.2	2.9	143	146	2.7	37	40	3,162	249,913	253,075	333	29	297	270,326
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23	21	30	81	0.40	0.53	26	27	0.50	6.7	7.2	524	41,376	41,899	55	4.8	49	44,755

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	48	34	171	449	2.5	3.0	161	164	2.9	42	45	—	268,785	268,785	13	29	523	278,137
Area	93	92	1.1	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,294	11,294	1.4	0.17	—	11,382
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.2	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95	95
Stationary	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	143	128	177	581	2.5	3.5	161	165	3.3	42	45	3,162	284,865	288,027	334	32	618	306,518
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	46	33	179	381	2.4	3.0	161	164	2.9	42	45	—	261,683	261,683	13	29	14	270,573
Area	71	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,294	11,294	1.4	0.17	—	11,382
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.2	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95	95
Stationary	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	119	105	184	385	2.4	3.3	161	164	3.1	42	45	3,162	277,238	280,400	334	32	109	298,427
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	41	30	162	354	2.2	2.7	143	146	2.6	37	40	—	234,795	234,795	11	26	202	242,910
Area	86	85	0.74	88	0.01	0.16	—	0.16	0.12	—	0.12	—	360	360	0.02	< 0.005	—	361
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	11,294	11,294	1.4	0.17	—	11,382
Water	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.2	—	8,915
Waste	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95	95
Stationary	0.27	0.25	0.69	0.63	< 0.005	0.04	0.00	0.04	0.04	0.00	0.04	0.00	127	127	0.01	< 0.005	0.00	127
Total	128	115	163	442	2.2	2.9	143	146	2.7	37	40	3,162	249,913	253,075	333	29	297	270,326
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.6	5.4	30	65	0.40	0.49	26	27	0.47	6.7	7.2	—	38,873	38,873	1.9	4.2	33	40,217
Area	16	16	0.13	16	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60	60	< 0.005	< 0.005	—	60
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	1,870	1,870	0.24	0.03	—	1,884
Water	—	—	—	—	—	—	—	—	—	—	—	214	552	767	22	0.53	—	1,476
Waste	—	—	—	—	—	—	—	—	—	—	—	309	0.00	309	31	0.00	—	1,082
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16
Stationary	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	21	21	< 0.005	< 0.005	0.00	21
Total	23	21	30	81	0.40	0.53	26	27	0.50	6.7	7.2	524	41,376	41,899	55	4.8	49	44,755

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	4.0	0.88	46	25	0.48	0.81	19	20	0.78	5.1	5.9	—	53,175	53,175	3.0	8.0	105	55,741
Unrefrigerated Warehouse-No Rail	7.6	1.7	89	48	0.92	1.6	37	38	1.5	9.9	11	—	102,283	102,283	5.7	15	202	107,220
City Park	0.91	0.80	0.90	9.8	0.03	0.02	2.8	2.8	0.02	0.71	0.72	—	2,957	2,957	0.10	0.12	6.0	3,001
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	23	21	12	277	0.70	0.24	75	75	0.22	19	19	—	70,337	70,337	1.9	1.4	130	70,932
Hospital	2.9	2.5	2.9	31	0.09	0.05	8.9	8.9	0.05	2.2	2.3	—	9,412	9,412	0.33	0.39	19	9,555
Strip Mall	0.81	0.75	0.52	5.1	0.01	0.01	1.2	1.2	0.01	0.31	0.32	—	1,340	1,340	0.07	0.06	2.7	1,364
Fast Food Restaurant with Drive Thru	6.8	6.3	4.5	44	0.12	0.07	11	11	0.06	2.8	2.9	—	11,923	11,923	0.56	0.56	24	12,129
Manufacturing	1.3	0.28	15	8.1	0.16	0.26	6.2	6.5	0.25	1.7	1.9	—	17,357	17,357	0.97	2.6	34	18,195

Total	48	34	171	449	2.5	3.0	161	164	2.9	42	45	—	268,785	268,785	13	29	523	278,137
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	3.9	0.86	48	25	0.48	0.81	19	20	0.78	5.1	5.9	—	53,183	53,183	3.0	8.0	2.7	55,647
Unrefrigerated Warehouse-No Rail	7.6	1.6	93	48	0.92	1.6	37	38	1.5	9.9	11	—	102,298	102,298	5.7	15	5.2	107,040
City Park	0.87	0.76	0.97	8.0	0.03	0.02	2.8	2.8	0.02	0.71	0.72	—	2,771	2,771	0.11	0.13	0.16	2,811
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	22	20	13	224	0.64	0.24	75	75	0.22	19	19	—	64,800	64,800	1.9	1.5	3.4	65,301
Hospital	2.7	2.4	3.1	25	0.09	0.05	8.9	8.9	0.05	2.2	2.3	—	8,821	8,821	0.33	0.40	0.50	8,949
Strip Mall	0.77	0.71	0.56	4.4	0.01	0.01	1.2	1.2	0.01	0.31	0.32	—	1,258	1,258	0.07	0.07	0.07	1,280
Fast Food Restaurant with Drive Thru	6.4	5.9	4.9	38	0.11	0.07	11	11	0.06	2.8	2.9	—	11,192	11,192	0.59	0.58	0.62	11,381
Manufacturing	1.3	0.28	16	8.1	0.16	0.26	6.2	6.5	0.25	1.7	1.9	—	17,360	17,360	0.97	2.6	0.89	18,165
Total	46	33	179	381	2.4	3.0	161	164	2.9	42	45	—	261,683	261,683	13	29	14	270,573
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industrial Park	0.69	0.15	8.5	4.3	0.08	0.14	3.3	3.4	0.14	0.89	1.0	—	8,394	8,394	0.47	1.3	7.2	8,789
Unrefrigerated Warehouse-No Rail	1.2	0.25	14	7.3	0.14	0.24	5.6	5.8	0.23	1.5	1.7	—	14,193	14,193	0.80	2.1	12	14,862
City Park	0.08	0.07	0.09	0.73	< 0.005	< 0.005	0.24	0.24	< 0.005	0.06	0.06	—	224	224	0.01	0.01	0.21	228
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	3.6	3.3	2.2	38	0.11	0.04	12	12	0.04	3.0	3.1	—	9,695	9,695	0.29	0.23	8.3	9,778
Hospital	0.50	0.43	0.57	4.8	0.02	0.01	1.6	1.6	0.01	0.40	0.41	—	1,469	1,469	0.05	0.07	1.4	1,492
Strip Mall	0.14	0.13	0.10	0.83	< 0.005	< 0.005	0.22	0.22	< 0.005	0.06	0.06	—	210	210	0.01	0.01	0.19	214
Fast Food Restaurant with Drive Thru	1.2	1.1	0.90	7.2	0.02	0.01	2.0	2.0	0.01	0.50	0.52	—	1,871	1,871	0.10	0.10	1.7	1,904
Manufacturing	0.23	0.05	2.8	1.4	0.03	0.05	1.1	1.1	0.05	0.30	0.34	—	2,817	2,817	0.16	0.42	2.4	2,950
Total	7.6	5.4	30	65	0.40	0.49	26	27	0.47	6.7	7.2	—	38,873	38,873	1.9	4.2	33	40,217

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,329	5,329	0.67	0.08	—	5,370
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,458	3,458	0.44	0.05	—	3,485
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	816	816	0.10	0.01	—	822
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	738	738	0.09	0.01	—	744
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	35	35	< 0.005	< 0.005	—	35
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	793	793	0.10	0.01	—	800
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,294	11,294	1.4	0.17	—	11,382

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	5,329	5,329	0.67	0.08	—	5,370
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3,458	3,458	0.44	0.05	—	3,485
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	816	816	0.10	0.01	—	822
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	738	738	0.09	0.01	—	744
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	35	35	< 0.005	< 0.005	—	35
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	125	125	0.02	< 0.005	—	126
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	793	793	0.10	0.01	—	800
Total	—	—	—	—	—	—	—	—	—	—	—	—	11,294	11,294	1.4	0.17	—	11,382
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	882	882	0.11	0.01	—	889

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	573	573	0.07	0.01	—	577
City Park	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	135	135	0.02	< 0.005	—	136
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	122	122	0.02	< 0.005	—	123
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	5.8	5.8	< 0.005	< 0.005	—	5.8
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	21	21	< 0.005	< 0.005	—	21
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	131	131	0.02	< 0.005	—	132
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,870	1,870	0.24	0.03	—	1,884

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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

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
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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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

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
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
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial 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
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
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
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

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Hospital	0.00	0.00	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
Fast Food Restaurant with Drive Thru	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Manufacturing	0.00	0.00	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	63	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.6	7.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	23	21	1.1	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Total	93	92	1.1	128	0.01	0.23	—	0.23	0.17	—	0.17	—	526	526	0.02	< 0.005	—	528
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	63	63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.6	7.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	71	71	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	12	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.4	1.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.8	2.6	0.13	16	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60	60	< 0.005	< 0.005	—	60
Total	16	16	0.13	16	< 0.005	0.03	—	0.03	0.02	—	0.02	—	60	60	< 0.005	< 0.005	—	60

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	925	1,269	35	0.85	—	2,409
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	844	2,143	2,987	87	2.1	—	5,781
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.4	21	30	0.87	0.02	—	58
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	1.8	2.5	0.07	< 0.005	—	4.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.9	7.4	10	0.30	0.01	—	20
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	94	238	332	9.6	0.23	—	642
Total	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.2	—	8,915

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	344	925	1,269	35	0.85	—	2,409
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	844	2,143	2,987	87	2.1	—	5,781
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	8.4	21	30	0.87	0.02	—	58
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.71	1.8	2.5	0.07	< 0.005	—	4.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.9	7.4	10	0.30	0.01	—	20
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	94	238	332	9.6	0.23	—	642
Total	—	—	—	—	—	—	—	—	—	—	—	1,294	3,337	4,631	133	3.2	—	8,915
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	57	153	210	5.9	0.14	—	399

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	140	355	495	14	0.35	—	957
City Park	—	—	—	—	—	—	—	—	—	—	—	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
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	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
Hospital	—	—	—	—	—	—	—	—	—	—	—	1.4	3.5	4.9	0.14	< 0.005	—	9.5
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.12	0.30	0.42	0.01	< 0.005	—	0.80
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.48	1.2	1.7	0.05	< 0.005	—	3.3
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	16	39	55	1.6	0.04	—	106
Total	—	—	—	—	—	—	—	—	—	—	—	214	552	767	22	0.53	—	1,476

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Industria Park	—	—	—	—	—	—	—	—	—	—	—	519	0.00	519	52	0.00	—	1,817
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	965	0.00	965	96	0.00	—	3,377
City Park	—	—	—	—	—	—	—	—	—	—	—	4.3	0.00	4.3	0.43	0.00	—	15
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.8	0.00	2.8	0.28	0.00	—	9.9
Fast Food Restaura nt with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31	0.00	31	3.1	0.00	—	109
Manufac turing	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industria l Park	—	—	—	—	—	—	—	—	—	—	—	519	0.00	519	52	0.00	—	1,817

Unrefrigerated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	965	0.00	965	96	0.00	—	3,377
City Park	—	—	—	—	—	—	—	—	—	—	—	4.3	0.00	4.3	0.43	0.00	—	15
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	204	0.00	204	20	0.00	—	713
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	2.8	0.00	2.8	0.28	0.00	—	9.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	31	0.00	31	3.1	0.00	—	109
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	141	0.00	141	14	0.00	—	495
Total	—	—	—	—	—	—	—	—	—	—	—	1,868	0.00	1,868	187	0.00	—	6,535
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	86	0.00	86	8.6	0.00	—	301
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	160	0.00	160	16	0.00	—	559
City Park	—	—	—	—	—	—	—	—	—	—	—	0.71	0.00	0.71	0.07	0.00	—	2.5

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	34	0.00	34	3.4	0.00	—	118
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.47	0.00	0.47	0.05	0.00	—	1.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.1	0.00	5.1	0.51	0.00	—	18
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	23	0.00	23	2.3	0.00	—	82
Total	—	—	—	—	—	—	—	—	—	—	—	309	0.00	309	31	0.00	—	1,082

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73	73
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	2.8
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95	95
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	73	73
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.05	0.05
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.8	2.8
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	20	20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	95	95
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	12	12

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Hospital	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.47	0.47
Manufacturing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.3	3.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	16	16

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Total	2.0	1.8	5.0	4.6	0.01	0.27	0.00	0.27	0.27	0.00	0.27	0.00	923	923	0.04	0.01	0.00	927
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Fire Pump	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	21	21	< 0.005	< 0.005	0.00	21
Total	0.05	0.05	0.13	0.12	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	0.00	21	21	< 0.005	< 0.005	0.00	21

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Industrial Park	376	342	287	130,863	21,680	19,709	16,574	7,544,278
Unrefrigerated Warehouse-No Rail	553	187	168	162,533	31,926	10,789	9,688	9,391,155
Unrefrigerated Warehouse-No Rail	168	136	135	57,986	9,716	7,846	7,773	3,347,531
City Park	72	212	239	42,285	1,180	3,474	3,922	693,278

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	6,607	4,274	3,936	2,150,647	107,687	69,668	64,150	35,053,111
Hospital	753	743	740	273,659	12,487	12,324	12,273	4,538,103
Strip Mall	272	272	269	99,126	1,739	1,737	1,722	633,667
Fast Food Restaurant with Drive Thru	2,241	2,243	2,241	818,046	15,500	15,511	15,500	5,658,065
Manufacturing	122	117	109	43,625	7,057	6,799	6,334	2,524,562

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Industrial Park	Wood Fireplaces	0	0
Industrial Park	Gas Fireplaces	0	0
Industrial Park	Propane Fireplaces	0	0
Industrial Park	Electric Fireplaces	0	0
Industrial Park	No Fireplaces	0	0
Industrial Park	Conventional Wood Stoves	0	0
Industrial Park	Catalytic Wood Stoves	0	0
Industrial Park	Non-Catalytic Wood Stoves	0	0
Industrial Park	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0

Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Wood Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Gas Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Propane Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Electric Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	No Fireplaces	0	0
Unrefrigerated Warehouse-No Rail	Conventional Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Non-Catalytic Wood Stoves	0	0
Unrefrigerated Warehouse-No Rail	Pellet Wood Stoves	0	0
City Park	Wood Fireplaces	0	0
City Park	Gas Fireplaces	0	0
City Park	Propane Fireplaces	0	0
City Park	Electric Fireplaces	0	0
City Park	No Fireplaces	0	0
City Park	Conventional Wood Stoves	0	0
City Park	Catalytic Wood Stoves	0	0
City Park	Non-Catalytic Wood Stoves	0	0
City Park	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0

Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
User Defined Industrial	Wood Fireplaces	0	0
User Defined Industrial	Gas Fireplaces	0	0
User Defined Industrial	Propane Fireplaces	0	0
User Defined Industrial	Electric Fireplaces	0	0
User Defined Industrial	No Fireplaces	0	0
User Defined Industrial	Conventional Wood Stoves	0	0
User Defined Industrial	Catalytic Wood Stoves	0	0
User Defined Industrial	Non-Catalytic Wood Stoves	0	0
User Defined Industrial	Pellet Wood Stoves	0	0
Hospital	Wood Fireplaces	0	0
Hospital	Gas Fireplaces	0	0
Hospital	Propane Fireplaces	0	0
Hospital	Electric Fireplaces	0	0
Hospital	No Fireplaces	0	0
Hospital	Conventional Wood Stoves	0	0
Hospital	Catalytic Wood Stoves	0	0

Hospital	Non-Catalytic Wood Stoves	0	0
Hospital	Pellet Wood Stoves	0	0
Strip Mall	Wood Fireplaces	0	0
Strip Mall	Gas Fireplaces	0	0
Strip Mall	Propane Fireplaces	0	0
Strip Mall	Electric Fireplaces	0	0
Strip Mall	No Fireplaces	0	0
Strip Mall	Conventional Wood Stoves	0	0
Strip Mall	Catalytic Wood Stoves	0	0
Strip Mall	Non-Catalytic Wood Stoves	0	0
Strip Mall	Pellet Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Wood Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Gas Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Propane Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Electric Fireplaces	0	0
Fast Food Restaurant with Drive Thru	No Fireplaces	0	0
Fast Food Restaurant with Drive Thru	Conventional Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Non-Catalytic Wood Stoves	0	0
Fast Food Restaurant with Drive Thru	Pellet Wood Stoves	0	0
Manufacturing	Wood Fireplaces	0	0
Manufacturing	Gas Fireplaces	0	0
Manufacturing	Propane Fireplaces	0	0
Manufacturing	Electric Fireplaces	0	0
Manufacturing	No Fireplaces	0	0
Manufacturing	Conventional Wood Stoves	0	0
Manufacturing	Catalytic Wood Stoves	0	0
Manufacturing	Non-Catalytic Wood Stoves	0	0

Manufacturing	Pellet Wood Stoves	0	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)
undefined	0.00	0.00	4,408,500	1,469,500	136,260

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Industrial Park	7,458,064	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	3,226,672	261	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	1,613,336	261	0.0330	0.0040	0.00
City Park	0.00	261	0.0330	0.0040	0.00
Parking Lot	1,141,895	261	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	261	0.0330	0.0040	0.00
User Defined Industrial	0.00	261	0.0330	0.0040	0.00
Hospital	1,033,091	261	0.0330	0.0040	0.00
Strip Mall	48,642	261	0.0330	0.0040	0.00

Fast Food Restaurant with Drive Thru	175,333	261	0.0330	0.0040	0.00
Manufacturing	1,110,525	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)
Industrial Park	179,681,250	13,502,286
Unrefrigerated Warehouse-No Rail	293,733,750	0.00
Unrefrigerated Warehouse-No Rail	146,866,875	0.00
City Park	0.00	0.00
Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Hospital	4,391,819	0.00
Strip Mall	370,363	0.00
Fast Food Restaurant with Drive Thru	1,517,669	0.00
Manufacturing	48,955,625	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Industrial Park	963	0.00
Unrefrigerated Warehouse-No Rail	1,194	0.00
Unrefrigerated Warehouse-No Rail	597	0.00
City Park	8.0	0.00

Parking Lot	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00
Hospital	378	0.00
Strip Mall	5.3	0.00
Fast Food Restaurant with Drive Thru	58	0.00
Manufacturing	263	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Industrial Park	Other commercial A/C and heat pumps	User Defined	750	0.30	4.0	4.0	18
City Park	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Hospital	Chillers	R-134a	1,430	< 0.005	2.0	2.0	23
Hospital	Household refrigerators and/or freezers	R-134a	1,430	< 0.005	0.60	0.00	1.00
Hospital	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Hospital	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Strip Mall	Other commercial A/C and heat pumps	User Defined	750	< 0.005	4.0	4.0	18
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	7.5	7.5	20
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	User Defined	750	1.8	4.0	4.0	18
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Manufacturing	Other commercial A/C and heat pumps	User Defined	750	0.30	4.0	4.0	18

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73
Fire Pump	Diesel	1.00	1.00	50	220	0.73

5.16.2. Process Boilers

5.17. User Defined

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	20	annual days of extreme heat
Extreme Precipitation	3.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	6.8	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	2	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	2	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	77
AQ-PM	93
AQ-DPM	57
Drinking Water	100
Lead Risk Housing	17
Pesticides	85
Toxic Releases	68
Traffic	18
Effect Indicators	—
CleanUp Sites	80
Groundwater	98
Haz Waste Facilities/Generators	87
Impaired Water Bodies	87
Solid Waste	99

Sensitive Population	—
Asthma	17
Cardio-vascular	29
Low Birth Weights	49
Socioeconomic Factor Indicators	—
Education	53
Housing	59
Linguistic	69
Poverty	35
Unemployment	36

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	73.60451687
Employed	6.274862056
Median HI	76.55588349
Education	—
Bachelor's or higher	64.85307327
High school enrollment	100
Preschool enrollment	66.93186193
Transportation	—
Auto Access	63.41588605
Active commuting	24.5989991
Social	—
2-parent households	66.95752598
Voting	70.69164635

Neighborhood	—
Alcohol availability	97.0101373
Park access	52.77813422
Retail density	10.02181445
Supermarket access	6.557166688
Tree canopy	8.238162453
Housing	—
Homeownership	60.78532016
Housing habitability	61.41408957
Low-inc homeowner severe housing cost burden	71.53856025
Low-inc renter severe housing cost burden	18.38829719
Uncrowded housing	64.30129603
Health Outcomes	—
Insured adults	73.78416528
Arthritis	95.7
Asthma ER Admissions	84.6
High Blood Pressure	97.7
Cancer (excluding skin)	89.7
Asthma	34.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	94.6
Diagnosed Diabetes	96.0
Life Expectancy at Birth	75.7
Cognitively Disabled	56.3
Physically Disabled	69.8
Heart Attack ER Admissions	68.4
Mental Health Not Good	54.9
Chronic Kidney Disease	97.1

Obesity	68.0
Pedestrian Injuries	19.6
Physical Health Not Good	86.2
Stroke	97.8
Health Risk Behaviors	—
Binge Drinking	28.2
Current Smoker	59.6
No Leisure Time for Physical Activity	76.7
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	9.0
Elderly	91.7
English Speaking	35.1
Foreign-born	48.1
Outdoor Workers	88.5
Climate Change Adaptive Capacity	—
Impervious Surface Cover	78.1
Traffic Density	21.6
Traffic Access	23.0
Other Indices	—
Hardship	45.2
Other Decision Support	—
2016 Voting	74.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	72

Healthy Places Index Score for Project Location (b)	55
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

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Construction schedule provided by Project team.
Construction: Off-Road Equipment	Construction equipment list provided by Project team.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	Rule 1113 limits
Operations: Vehicle Data	Trip gen based on Project traffic study.
Operations: Fleet Mix	Fleet mix adjusted to separate passenger vehicles and trucks.
Operations: Energy Use	Project will not use natural gas. Project will install solar to offset 45% of the industrial electrical demand.
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 4.3:

EMFAC2021

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

Region	endar Y	hicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Vehicle Class	Miles per Gallon
San Bernardino (SC)	2027	HHDT	Aggregate	Aggregate	Gasoline	2.031197481	158.444704	0.03545197	35.45197047	324538.1908	158.444704	2066703.214	HHD	6.37
San Bernardino (SC)	2027	HHDT	Aggregate	Aggregate	Diesel	15410.14317	1861290.669	297.8003661	297800.3661		1861290.669			
San Bernardino (SC)	2027	HHDT	Aggregate	Aggregate	Electricity	309.5303952	32362.74223	0	0		32362.74223			
San Bernardino (SC)	2027	HHDT	Aggregate	Aggregate	Natural Gas	2715.575882	172891.3587	26.70237267	26702.37267		172891.3587			
San Bernardino (SC)	2027	LDA	Aggregate	Aggregate	Gasoline	455364.3713	19787637.94	626.1101219	626110.1219	638604.9325	19787637.94	21952221.48	LDA	34.38
San Bernardino (SC)	2027	LDA	Aggregate	Aggregate	Diesel	838.6675897	29298.26032	0.659294609	659.2946086		29298.26032			
San Bernardino (SC)	2027	LDA	Aggregate	Aggregate	Electricity	29132.45727	1375391.516	0	0		1375391.516			
San Bernardino (SC)	2027	LDA	Aggregate	Aggregate	Plug-in Hybrid	15443.22828	759893.7676	11.83551602	11835.51602		759893.7676			
San Bernardino (SC)	2027	LDT1	Aggregate	Aggregate	Gasoline	38336.73013	1338397.254	51.51343959	51513.43959	51606.62039	1338397.254	1351923.889	LDT1	26.20
San Bernardino (SC)	2027	LDT1	Aggregate	Aggregate	Diesel	4.439852634	65.17772521	0.002574711	2.57471119		65.17772521			
San Bernardino (SC)	2027	LDT1	Aggregate	Aggregate	Electricity	144.0545689	7086.678198	0	0		7086.678198			
San Bernardino (SC)	2027	LDT1	Aggregate	Aggregate	Plug-in Hybrid	128.8782043	6374.778863	0.090606087	90.60608738		6374.778863			
San Bernardino (SC)	2027	LDT2	Aggregate	Aggregate	Gasoline	207676.4312	8538774.779	327.3681394	327368.1394	329973.7622	8538774.779	8775845.407	LDT2	26.60
San Bernardino (SC)	2027	LDT2	Aggregate	Aggregate	Diesel	630.9551959	27664.28405	0.782780323	782.7803228		27664.28405			
San Bernardino (SC)	2027	LDT2	Aggregate	Aggregate	Electricity	2524.548375	86861.55106	0	0		86861.55106			
San Bernardino (SC)	2027	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2587.065461	122544.7931	1.822842412	1822.842412		122544.7931			
San Bernardino (SC)	2027	LHDT1	Aggregate	Aggregate	Gasoline	16631.76323	624309.3634	42.99085614	42990.85614	63571.75886	624309.3634	1082917.934	LHD1	17.03
San Bernardino (SC)	2027	LHDT1	Aggregate	Aggregate	Diesel	11353.59669	427724.523	20.58090272	20580.90272		427724.523			
San Bernardino (SC)	2027	LHDT1	Aggregate	Aggregate	Electricity	483.3007095	30884.04755	0	0		30884.04755			
San Bernardino (SC)	2027	LHDT2	Aggregate	Aggregate	Gasoline	2701.097559	94507.35792	7.480744076	7480.744076	18200.52082	94507.35792	289429.504	LHD2	15.90
San Bernardino (SC)	2027	LHDT2	Aggregate	Aggregate	Diesel	4973.210606	187433.7598	10.71977674	10719.77674		187433.7598			
San Bernardino (SC)	2027	LHDT2	Aggregate	Aggregate	Electricity	122.9369508	7488.386288	0	0		7488.386288			
San Bernardino (SC)	2027	MCY	Aggregate	Aggregate	Gasoline	20938.59567	122694.478	2.890537534	2890.537534	2890.537534	122694.478	122694.478	MCY	42.45
San Bernardino (SC)	2027	MDV	Aggregate	Aggregate	Gasoline	147488.8393	5847136.794	277.1736638	277173.6638	281362.1261	5847136.794	6096922.964	MDV	21.67
San Bernardino (SC)	2027	MDV	Aggregate	Aggregate	Diesel	1888.455182	74178.21175	2.946435768	2946.435768		74178.21175			
San Bernardino (SC)	2027	MDV	Aggregate	Aggregate	Electricity	2733.489517	93772.05753	0	0		93772.05753			
San Bernardino (SC)	2027	MDV	Aggregate	Aggregate	Plug-in Hybrid	1684.990864	81835.90048	1.242026531	1242.026531		81835.90048			
San Bernardino (SC)	2027	MH	Aggregate	Aggregate	Gasoline	2916.368599	25737.28381	5.27019968	5270.19968	6397.211655	25737.28381	37228.95733	MH	5.82
San Bernardino (SC)	2027	MH	Aggregate	Aggregate	Diesel	1309.206187	11491.67351	1.127011975	1127.011975		11491.67351			
San Bernardino (SC)	2027	MHDT	Aggregate	Aggregate	Gasoline	1363.931373	73700.39666	13.69794739	13697.94739	88901.23052	73700.39666	776532.1125	MHD	8.73
San Bernardino (SC)	2027	MHDT	Aggregate	Aggregate	Diesel	16024.85269	671004.9398	73.98162813	73981.62813		671004.9398			
San Bernardino (SC)	2027	MHDT	Aggregate	Aggregate	Electricity	415.444894	21284.00609	0	0		21284.00609			
San Bernardino (SC)	2027	MHDT	Aggregate	Aggregate	Natural Gas	231.558042	10542.76998	1.221654995	1221.654995		10542.76998			
San Bernardino (SC)	2027	OBUS	Aggregate	Aggregate	Gasoline	338.4979609	13679.12348	2.606454389	2606.454389	4867.066738	13679.12348	31634.98876	OBUS	6.50
San Bernardino (SC)	2027	OBUS	Aggregate	Aggregate	Diesel	224.28968	15302.2929	2.013017951	2013.017951		15302.2929			
San Bernardino (SC)	2027	OBUS	Aggregate	Aggregate	Electricity	5.327608073	407.9589952	0	0		407.9589952			
San Bernardino (SC)	2027	OBUS	Aggregate	Aggregate	Natural Gas	38.43104481	2245.613392	0.247594398	247.5943984		2245.613392			
San Bernardino (SC)	2027	SBUS	Aggregate	Aggregate	Gasoline	305.3091837	14312.56626	1.584072348	1584.072348	4963.461893	14312.56626	32226.7021	SBUS	6.49
San Bernardino (SC)	2027	SBUS	Aggregate	Aggregate	Diesel	342.2196973	6962.145992	0.937618085	937.6180855		6962.145992			
San Bernardino (SC)	2027	SBUS	Aggregate	Aggregate	Electricity	13.01170465	369.133274	0	0		369.133274			
San Bernardino (SC)	2027	SBUS	Aggregate	Aggregate	Natural Gas	435.6655597	10582.85658	2.44177146	2441.77146		10582.85658			
San Bernardino (SC)	2027	UBUS	Aggregate	Aggregate	Gasoline	55.04919487	5285.495548	0.409776943	409.7769433	7271.552247	5285.495548	40366.41553	UBUS	5.55
San Bernardino (SC)	2027	UBUS	Aggregate	Aggregate	Diesel	4.529432466	447.4667714	0.043453785	43.4537853		447.4667714			
San Bernardino (SC)	2027	UBUS	Aggregate	Aggregate	Electricity	29.13079723	4558.880161	0	0		4558.880161			
San Bernardino (SC)	2027	UBUS	Aggregate	Aggregate	Natural Gas	223.133143	30074.57305	6.818321518	6818.321518		30074.57305			

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

Region	endar Y	hicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Vehicle Class	Miles per Gallon
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Gasoline	1.780647909	159.894357	0.034873179	34.87317916	324335.8557	159.894357	2113898.459	HHD	6.52
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Diesel	15679.98359	1888808.555	297.4847985	297484.7985		1888808.555			
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Electricity	474.5346277	49461.3568	0	0		49461.3568			
San Bernardino (SC)	2028	HHDT	Aggregate	Aggregate	Natural Gas	2769.619615	175468.6527	26.81618398	26816.18398		175468.6527			
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Gasoline	454722.5927	19710842.23	612.0965926	612096.5926	624772.4583	19710842.23	22018606.74	LDA	35.24
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Diesel	767.4467464	26815.31548	0.594852513	594.8525127		26815.31548			
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Electricity	32123.14788	1493302.61	0	0		1493302.61			
San Bernardino (SC)	2028	LDA	Aggregate	Aggregate	Plug-in Hybrid	16240.61689	787646.5895	12.0810132	12081.0132		787646.5895			
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Gasoline	37700.23318	1319681.01	49.85152068	49851.52068	49964.34545	1319681.01	1336616.301	LDT1	26.75
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Diesel	2.821964723	43.04105961	0.001642856	1.642855869		43.04105961			
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Electricity	183.9520598	9005.906033	0	0		9005.906033			
San Bernardino (SC)	2028	LDT1	Aggregate	Aggregate	Plug-in Hybrid	161.2238729	7886.344168	0.111181916	111.1819162		7886.344168			
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Gasoline	212758.1402	8723423.998	327.6284447	327628.4447	330446.0838	8723423.998	8991750.075	LDT2	27.21
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Diesel	665.8961422	28944.33842	0.805541947	805.5419469		28944.33842			
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Electricity	3025.579639	102545.769	0	0		102545.769			
San Bernardino (SC)	2028	LDT2	Aggregate	Aggregate	Plug-in Hybrid	2929.302852	136835.9699	2.012097086	2012.097086		136835.9699			
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Gasoline	16459.97705	617197.2052	41.70672464	41706.72464	61947.842	617197.2052	1086558.4	LHD1	17.54
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Diesel	11288.52429	422115.637	20.24111736	20241.11736		422115.637			
San Bernardino (SC)	2028	LHDT1	Aggregate	Aggregate	Electricity	759.7330617	47245.5578	0	0		47245.5578			
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Gasoline	2638.326704	91702.27003	7.150479162	7150.479162	17745.71182	91702.27003	289411.7007	LHD2	16.31
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Diesel	4995.292971	186257.2608	10.59523266	10595.23266		186257.2608			
San Bernardino (SC)	2028	LHDT2	Aggregate	Aggregate	Electricity	193.0251886	11452.16988	0	0		11452.16988			
San Bernardino (SC)	2028	MCY	Aggregate	Aggregate	Gasoline	20989.54353	122430.1942	2.874373015	2874.373015	2874.373015	122430.1942	122430.1942	MCY	42.59
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Gasoline	147888.3135	5861132.314	271.9577147	271957.7147	276174.8617	5861132.314	6134318.793	MDV	22.21
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Diesel	1872.670495	73174.95507	2.851564271	2851.564271		73174.95507			
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Electricity	3222.822489	108755.4714	0	0		108755.4714			
San Bernardino (SC)	2028	MDV	Aggregate	Aggregate	Plug-in Hybrid	1904.277757	91256.05166	1.365582646	1365.582646		91256.05166			
San Bernardino (SC)	2028	MH	Aggregate	Aggregate	Gasoline	2774.490262	24529.40935	5.022117905	5022.117905	6131.303372	24529.40935	35834.97039	MH	5.84
San Bernardino (SC)	2028	MH	Aggregate	Aggregate	Diesel	1296.752484	11305.56104	1.109185467	1109.185467		11305.56104			
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Gasoline	1329.379307	71750.62125	13.20141951	13201.41951	88223.37897	71750.62125	789228.7537	MHD	8.95
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Diesel	16255.69397	672378.2079	73.77383347	73773.83347		672378.2079			
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Electricity	671.7166486	34328.79599	0	0		34328.79599			
San Bernardino (SC)	2028	MHDT	Aggregate	Aggregate	Natural Gas	241.4362378	10771.12859	1.248125991	1248.125991		10771.12859			
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Gasoline	328.7028414	13014.57879	2.457876704	2457.876704	4708.806802	13014.57879	31311.11353	OBUS	6.65
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Diesel	227.7457123	15365.96653	2.000406602	2000.406602		15365.96653			
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Electricity	8.339739934	632.53186	0	0		632.53186			
San Bernardino (SC)	2028	OBUS	Aggregate	Aggregate	Natural Gas	39.81877934	2298.036342	0.250523496	250.5234957		2298.036342			
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Gasoline	307.1039273	14368.18869	1.586828862	1586.828862	4950.163274	14368.18869	32351.51208	SBUS	6.54
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Diesel	328.9689478	6677.802406	0.896171972	896.1719723		6677.802406			
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Electricity	20.28860984	582.0518958	0	0		582.0518958			
San Bernardino (SC)	2028	SBUS	Aggregate	Aggregate	Natural Gas	446.675507	10723.46909	2.46716244	2467.16244		10723.46909			
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Gasoline	55.15736847	5295.928288	0.410528473	410.5284731	7250.443086	5295.928288	40447.40177	UBUS	5.58
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Diesel	4.529432466	447.4667714	0.043453785	43.4537853		447.4667714			
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Electricity	29.32085321	4588.620079	0	0		4588.620079			
San Bernardino (SC)	2028	UBUS	Aggregate	Aggregate	Natural Gas	223.4605562	30115.38663	6.796460827	6796.460827		30115.38663			

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

Region	endar Y	hicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Vehicle Class	Miles per Gallon
San Bernardino (SC)	2029	HHDT	Aggregate	Aggregate	Gasoline	1.612506616	161.6232684	0.03433997	34.33996981	323605.2848	161.6232684	2162217.032	HHD	6.68
San Bernardino (SC)	2029	HHDT	Aggregate	Aggregate	Diesel	15883.22406	1913504.349	296.7646578	296764.6578		1913504.349			
San Bernardino (SC)	2029	HHDT	Aggregate	Aggregate	Electricity	690.5518271	71383.92196	0	0		71383.92196			
San Bernardino (SC)	2029	HHDT	Aggregate	Aggregate	Natural Gas	2808.325935	177167.1377	26.80628703	26806.28703		177167.1377			
San Bernardino (SC)	2029	LDA	Aggregate	Aggregate	Gasoline	454088.9717	19644319.88	599.4664448	599466.4448	612274.5077	19644319.88	22085820.91	LDA	36.07
San Bernardino (SC)	2029	LDA	Aggregate	Aggregate	Diesel	703.6547872	24517.48804	0.536350415	536.3504151		24517.48804			
San Bernardino (SC)	2029	LDA	Aggregate	Aggregate	Electricity	35060.92623	1605898.405	0	0		1605898.405			
San Bernardino (SC)	2029	LDA	Aggregate	Aggregate	Plug-in Hybrid	16957.11664	811085.1352	12.27171248	12271.71248		811085.1352			
San Bernardino (SC)	2029	LDT1	Aggregate	Aggregate	Gasoline	37105.49718	1302831.539	48.3359533	48335.9533	48470.81094	1302831.539	1323605.569	LDT1	27.31
San Bernardino (SC)	2029	LDT1	Aggregate	Aggregate	Diesel	1.509618811	25.67322595	0.000964722	0.964721909		25.67322595			
San Bernardino (SC)	2029	LDT1	Aggregate	Aggregate	Electricity	230.1589152	11195.85043	0	0		11195.85043			
San Bernardino (SC)	2029	LDT1	Aggregate	Aggregate	Plug-in Hybrid	197.3790909	9552.506643	0.133892913	133.8929135		9552.506643			
San Bernardino (SC)	2029	LDT2	Aggregate	Aggregate	Gasoline	217712.355	8896370.242	328.0042081	328004.2081	331032.9595	8896370.242	9196886.929	LDT2	27.78
San Bernardino (SC)	2029	LDT2	Aggregate	Aggregate	Diesel	698.208123	30108.84018	0.825534448	825.534448		30108.84018			
San Bernardino (SC)	2029	LDT2	Aggregate	Aggregate	Electricity	3565.850903	119152.3874	0	0		119152.3874			
San Bernardino (SC)	2029	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3281.310595	151255.4593	2.203216926	2203.216926		151255.4593			
San Bernardino (SC)	2029	LHDT1	Aggregate	Aggregate	Gasoline	16254.38776	608145.0174	40.39508291	40395.08291	60250.70046	608145.0174	1090855.604	LHD1	18.11
San Bernardino (SC)	2029	LHDT1	Aggregate	Aggregate	Diesel	11198.29521	415353.5044	19.85561755	19855.61755		415353.5044			
San Bernardino (SC)	2029	LHDT1	Aggregate	Aggregate	Electricity	1111.894031	67357.08277	0	0		67357.08277			
San Bernardino (SC)	2029	LHDT2	Aggregate	Aggregate	Gasoline	2571.889211	88815.0914	6.827358628	6827.358628	17268.02877	88815.0914	289585.3206	LHD2	16.77
San Bernardino (SC)	2029	LHDT2	Aggregate	Aggregate	Diesel	5003.844634	184447.3643	10.44067014	10440.67014		184447.3643			
San Bernardino (SC)	2029	LHDT2	Aggregate	Aggregate	Electricity	282.1626328	16322.8649	0	0		16322.8649			
San Bernardino (SC)	2029	MCY	Aggregate	Aggregate	Gasoline	21072.82926	122267.6958	2.862018239	2862.018239	2862.018239	122267.6958	122267.6958	MCY	42.72
San Bernardino (SC)	2029	MDV	Aggregate	Aggregate	Gasoline	148400.0912	5877360.073	267.3641924	267364.1924	271614.4356	5877360.073	6173923.295	MDV	22.73
San Bernardino (SC)	2029	MDV	Aggregate	Aggregate	Diesel	1854.669027	72200.06824	2.762248068	2762.248068		72200.06824			
San Bernardino (SC)	2029	MDV	Aggregate	Aggregate	Electricity	3727.089352	123802.8406	0	0		123802.8406			
San Bernardino (SC)	2029	MDV	Aggregate	Aggregate	Plug-in Hybrid	2126.765086	100560.3127	1.487995067	1487.995067		100560.3127			
San Bernardino (SC)	2029	MH	Aggregate	Aggregate	Gasoline	2639.526624	23420.84329	4.79431376	4794.31376	5886.879263	23420.84329	34552.77259	MH	5.87
San Bernardino (SC)	2029	MH	Aggregate	Aggregate	Diesel	1284.198449	11131.9293	1.092565503	1092.565503		11131.9293			
San Bernardino (SC)	2029	MHDT	Aggregate	Aggregate	Gasoline	1293.806268	69527.9405	12.67263286	12672.63286	87051.23488	69527.9405	802363.7787	MHD	9.22
San Bernardino (SC)	2029	MHDT	Aggregate	Aggregate	Diesel	16384.62895	669593.6548	73.11028658	73110.28658		669593.6548			
San Bernardino (SC)	2029	MHDT	Aggregate	Aggregate	Electricity	1026.286557	52299.22942	0	0		52299.22942			
San Bernardino (SC)	2029	MHDT	Aggregate	Aggregate	Natural Gas	249.9093802	10942.95402	1.26831544	1268.31544		10942.95402			
San Bernardino (SC)	2029	OBUS	Aggregate	Aggregate	Gasoline	317.2460474	12314.05609	2.305826847	2305.826847	4548.040401	12314.05609	31025.873	OBUS	6.82
San Bernardino (SC)	2029	OBUS	Aggregate	Aggregate	Diesel	230.6478607	15437.17137	1.989268791	1989.268791		15437.17137			
San Bernardino (SC)	2029	OBUS	Aggregate	Aggregate	Electricity	12.41079525	932.293785	0	0		932.293785			
San Bernardino (SC)	2029	OBUS	Aggregate	Aggregate	Natural Gas	40.98749324	2342.351743	0.252944763	252.9447633		2342.351743			
San Bernardino (SC)	2029	SBUS	Aggregate	Aggregate	Gasoline	307.7961747	14372.47365	1.5840045	1584.0045	4920.705953	14372.47365	32447.96443	SBUS	6.59
San Bernardino (SC)	2029	SBUS	Aggregate	Aggregate	Diesel	313.6368565	6369.946847	0.851411807	851.4118068		6369.946847			
San Bernardino (SC)	2029	SBUS	Aggregate	Aggregate	Electricity	30.30266904	877.3589055	0	0		877.3589055			
San Bernardino (SC)	2029	SBUS	Aggregate	Aggregate	Natural Gas	456.6704675	10828.18503	2.485289647	2485.289647		10828.18503			
San Bernardino (SC)	2029	UBUS	Aggregate	Aggregate	Gasoline	54.19615679	5226.591161	0.391859569	391.8595691	6816.973461	5226.591161	40528.38801	UBUS	5.95
San Bernardino (SC)	2029	UBUS	Aggregate	Aggregate	Diesel	4.052539405	405.0450985	0.039679877	39.67987704		405.0450985			
San Bernardino (SC)	2029	UBUS	Aggregate	Aggregate	Electricity	39.21110302	6088.197173	0	0		6088.197173			
San Bernardino (SC)	2029	UBUS	Aggregate	Aggregate	Natural Gas	215.6340539	28808.55458	6.385434015	6385.434015		28808.55458			

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

Region	endar Y	hicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Vehicle Class	Miles per Gallon
San Bernardino (SC)	2030	HHDT	Aggregate	Aggregate	Gasoline	1.460110562	162.4040425	0.033874913	33.87491264	322508.4627	162.4040425	2211662.127	HHD	6.86
San Bernardino (SC)	2030	HHDT	Aggregate	Aggregate	Diesel	16027.94784	1935687.138	295.785571	295785.571		1935687.138			
San Bernardino (SC)	2030	HHDT	Aggregate	Aggregate	Electricity	953.2587709	97853.67764	0	0		97853.67764			
San Bernardino (SC)	2030	HHDT	Aggregate	Aggregate	Natural Gas	2831.014	177958.9068	26.68901685	26689.01685		177958.9068			
San Bernardino (SC)	2030	LDA	Aggregate	Aggregate	Gasoline	453464.552	19584196.39	588.0805414	588080.5414	600976.7121	19584196.39	22152772.28	LDA	36.86
San Bernardino (SC)	2030	LDA	Aggregate	Aggregate	Diesel	630.1586205	22339.62612	0.480558723	480.5587229		22339.62612			
San Bernardino (SC)	2030	LDA	Aggregate	Aggregate	Electricity	37981.85919	1715593.061	0	0		1715593.061			
San Bernardino (SC)	2030	LDA	Aggregate	Aggregate	Plug-in Hybrid	17597.75046	830643.2017	12.41561198	12415.61198		830643.2017			
San Bernardino (SC)	2030	LDT1	Aggregate	Aggregate	Gasoline	36547.00969	1287740.232	46.95934349	46959.34349	47118.58872	1287740.232	1312818.385	LDT1	27.86
San Bernardino (SC)	2030	LDT1	Aggregate	Aggregate	Diesel	0.431507234	11.92061732	0.000427043	0.427043325		11.92061732			
San Bernardino (SC)	2030	LDT1	Aggregate	Aggregate	Electricity	283.4152987	13687.84366	0	0		13687.84366			
San Bernardino (SC)	2030	LDT1	Aggregate	Aggregate	Plug-in Hybrid	237.5299518	11378.38861	0.158818196	158.8181957		11378.38861			
San Bernardino (SC)	2030	LDT2	Aggregate	Aggregate	Gasoline	222464.2695	9055227.436	328.3690986	328369.0986	331608.4967	9055227.436	9388963.637	LDT2	28.31
San Bernardino (SC)	2030	LDT2	Aggregate	Aggregate	Diesel	728.9548391	31178.90161	0.843610573	843.6105734		31178.90161			
San Bernardino (SC)	2030	LDT2	Aggregate	Aggregate	Electricity	4148.571904	136790.3978	0	0		136790.3978			
San Bernardino (SC)	2030	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3641.856025	165766.9015	2.395787488	2395.787488		165766.9015			
San Bernardino (SC)	2030	LHDT1	Aggregate	Aggregate	Gasoline	16040.64045	597709.8988	39.10255895	39102.55895	58529.03341	597709.8988	1096209.205	LHD1	18.73
San Bernardino (SC)	2030	LHDT1	Aggregate	Aggregate	Diesel	11086.65806	407515.4453	19.42647446	19426.47446		407515.4453			
San Bernardino (SC)	2030	LHDT1	Aggregate	Aggregate	Electricity	1540.16209	90983.86079	0	0		90983.86079			
San Bernardino (SC)	2030	LHDT2	Aggregate	Aggregate	Gasoline	2502.699009	85837.67559	6.5113299	6511.3299	16765.25242	85837.67559	289849.7425	LHD2	17.29
San Bernardino (SC)	2030	LHDT2	Aggregate	Aggregate	Diesel	4995.22327	181969.3788	10.25392252	10253.92252		181969.3788			
San Bernardino (SC)	2030	LHDT2	Aggregate	Aggregate	Electricity	390.3627689	22042.68813	0	0		22042.68813			
San Bernardino (SC)	2030	MCY	Aggregate	Aggregate	Gasoline	21123.14226	122133.6529	2.850142403	2850.142403	2850.142403	122133.6529	122133.6529	MCY	42.85
San Bernardino (SC)	2030	MDV	Aggregate	Aggregate	Gasoline	149011.9555	5894944.46	263.3389095	263338.9095	267628.2179	5894944.46	6215029.842	MDV	23.22
San Bernardino (SC)	2030	MDV	Aggregate	Aggregate	Diesel	1838.792085	71305.47459	2.680370946	2680.370946		71305.47459			
San Bernardino (SC)	2030	MDV	Aggregate	Aggregate	Electricity	4249.324563	139043.7203	0	0		139043.7203			
San Bernardino (SC)	2030	MDV	Aggregate	Aggregate	Plug-in Hybrid	2351.433889	109736.1868	1.608937509	1608.937509		109736.1868			
San Bernardino (SC)	2030	MH	Aggregate	Aggregate	Gasoline	2518.799033	22456.84263	4.596332347	4596.332347	5673.530708	22456.84263	33428.4216	MH	5.89
San Bernardino (SC)	2030	MH	Aggregate	Aggregate	Diesel	1271.490688	10971.57897	1.07719836	1077.19836		10971.57897			
San Bernardino (SC)	2030	MHDT	Aggregate	Aggregate	Gasoline	1256.069993	66995.71347	12.10520613	12105.20613	85372.14404	66995.71347	815878.2587	MHD	9.56
San Bernardino (SC)	2030	MHDT	Aggregate	Aggregate	Diesel	16410.38345	662685.5028	71.98566707	71985.66707		662685.5028			
San Bernardino (SC)	2030	MHDT	Aggregate	Aggregate	Electricity	1476.349226	75149.44614	0	0		75149.44614			
San Bernardino (SC)	2030	MHDT	Aggregate	Aggregate	Natural Gas	257.1604215	11047.59633	1.281270831	1281.270831		11047.59633			
San Bernardino (SC)	2030	OBUS	Aggregate	Aggregate	Gasoline	304.6637887	11608.32546	2.156177582	2156.177582	4392.841706	11608.32546	30802.90682	OBUS	7.01
San Bernardino (SC)	2030	OBUS	Aggregate	Aggregate	Diesel	232.6570124	15514.03146	1.981916922	1981.916922		15514.03146			
San Bernardino (SC)	2030	OBUS	Aggregate	Aggregate	Electricity	17.50457452	1301.262352	0	0		1301.262352			
San Bernardino (SC)	2030	OBUS	Aggregate	Aggregate	Natural Gas	41.91559326	2379.287553	0.254747203	254.7472027		2379.287553			
San Bernardino (SC)	2030	SBUS	Aggregate	Aggregate	Gasoline	306.8403636	14299.60962	1.572485997	1572.485997	4871.632109	14299.60962	32490.16456	SBUS	6.67
San Bernardino (SC)	2030	SBUS	Aggregate	Aggregate	Diesel	296.4257338	6041.369059	0.803636483	803.6364832		6041.369059			
San Bernardino (SC)	2030	SBUS	Aggregate	Aggregate	Electricity	42.78665693	1254.386472	0	0		1254.386472			
San Bernardino (SC)	2030	SBUS	Aggregate	Aggregate	Natural Gas	465.6894655	10894.79941	2.495509628	2495.509628		10894.79941			
San Bernardino (SC)	2030	UBUS	Aggregate	Aggregate	Gasoline	54.27883861	5234.705277	0.392055103	392.055103	6057.849634	5234.705277	40609.37425	UBUS	6.70
San Bernardino (SC)	2030	UBUS	Aggregate	Aggregate	Diesel	3.429071804	344.8256765	0.034431933	34.43193322		344.8256765			
San Bernardino (SC)	2030	UBUS	Aggregate	Aggregate	Electricity	56.68088603	8966.110722	0	0		8966.110722			
San Bernardino (SC)	2030	UBUS	Aggregate	Aggregate	Natural Gas	199.3306995	26063.73258	5.631362598	5631.362598		26063.73258			

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

Region	endar Y	hicle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Vehicle Class	Miles per Gallon
San Bernardino (SC)	2031	HHDT	Aggregate	Aggregate	Gasoline	1.350920156	163.2529965	0.033536585	33.53658461	323479.0389	163.2529965	2279726.212	HHD	7.05
San Bernardino (SC)	2031	HHDT	Aggregate	Aggregate	Diesel	16190.61534	1972032.04	296.8966948	296896.6948		1972032.04			
San Bernardino (SC)	2031	HHDT	Aggregate	Aggregate	Electricity	1259.577577	129065.9583	0	0		129065.9583			
San Bernardino (SC)	2031	HHDT	Aggregate	Aggregate	Natural Gas	2844.683798	178464.9597	26.5488075	26548.8075		178464.9597			
San Bernardino (SC)	2031	LDA	Aggregate	Aggregate	Gasoline	452952.8367	19533232.43	577.9510151	577951.0151	590910.7373	19533232.43	22218286.99	LDA	37.60
San Bernardino (SC)	2031	LDA	Aggregate	Aggregate	Diesel	584.0694335	20497.78494	0.434645054	434.6450544		20497.78494			
San Bernardino (SC)	2031	LDA	Aggregate	Aggregate	Electricity	40791.02699	1817301.917	0	0		1817301.917			
San Bernardino (SC)	2031	LDA	Aggregate	Aggregate	Plug-in Hybrid	18174.09309	847254.8626	12.52507715	12525.07715		847254.8626			
San Bernardino (SC)	2031	LDT1	Aggregate	Aggregate	Gasoline	36026.90516	1274585.23	45.72161674	45721.61674	45904.9148	1274585.23	1303847.115	LDT1	28.40
San Bernardino (SC)	2031	LDT1	Aggregate	Aggregate	Diesel	0.207935693	9.399681795	0.000325198	0.325198132		9.399681795			
San Bernardino (SC)	2031	LDT1	Aggregate	Aggregate	Electricity	337.0205854	16106.75207	0	0		16106.75207			
San Bernardino (SC)	2031	LDT1	Aggregate	Aggregate	Plug-in Hybrid	277.6354281	13145.73283	0.18297286	182.9728597		13145.73283			
San Bernardino (SC)	2031	LDT2	Aggregate	Aggregate	Gasoline	226973.3277	9200507.122	328.6828656	328682.8656	332120.1273	9200507.122	9565829.922	LDT2	28.80
San Bernardino (SC)	2031	LDT2	Aggregate	Aggregate	Diesel	757.8268474	32156.06977	0.859754287	859.7542867		32156.06977			
San Bernardino (SC)	2031	LDT2	Aggregate	Aggregate	Electricity	4727.434004	153690.8049	0	0		153690.8049			
San Bernardino (SC)	2031	LDT2	Aggregate	Aggregate	Plug-in Hybrid	3993.270765	179475.9257	2.577507422	2577.507422		179475.9257			
San Bernardino (SC)	2031	LHDT1	Aggregate	Aggregate	Gasoline	15800.31467	585493.3685	37.78785731	37787.85731	56741.08687	585493.3685	1101986.143	LHD1	19.42
San Bernardino (SC)	2031	LHDT1	Aggregate	Aggregate	Diesel	10952.33522	398604.3309	18.95322956	18953.22956		398604.3309			
San Bernardino (SC)	2031	LHDT1	Aggregate	Aggregate	Electricity	2044.082115	117888.4436	0	0		117888.4436			
San Bernardino (SC)	2031	LHDT2	Aggregate	Aggregate	Gasoline	2430.566889	82757.86125	6.200221131	6200.221131	16243.12171	82757.86125	290277.3034	LHD2	17.87
San Bernardino (SC)	2031	LHDT2	Aggregate	Aggregate	Diesel	4975.465819	178964.2493	10.04290058	10042.90058		178964.2493			
San Bernardino (SC)	2031	LHDT2	Aggregate	Aggregate	Electricity	517.4833969	28555.19292	0	0		28555.19292			
San Bernardino (SC)	2031	MCY	Aggregate	Aggregate	Gasoline	21183.40206	122059.3075	2.840505886	2840.505886	2840.505886	122059.3075	122059.3075	MCY	42.97
San Bernardino (SC)	2031	MDV	Aggregate	Aggregate	Gasoline	149742.1855	5914420.485	259.8783582	259878.3582	264207.1296	5914420.485	6256819.345	MDV	23.68
San Bernardino (SC)	2031	MDV	Aggregate	Aggregate	Diesel	1822.411758	70482.27766	2.605117918	2605.117918		70482.27766			
San Bernardino (SC)	2031	MDV	Aggregate	Aggregate	Electricity	4763.397399	153504.7582	0	0		153504.7582			
San Bernardino (SC)	2031	MDV	Aggregate	Aggregate	Plug-in Hybrid	2571.759087	118411.8238	1.723653438	1723.653438		118411.8238			
San Bernardino (SC)	2031	MH	Aggregate	Aggregate	Gasoline	2407.55152	21588.48896	4.418413075	4418.413075	5481.467083	21588.48896	32411.8142	MH	5.91
San Bernardino (SC)	2031	MH	Aggregate	Aggregate	Diesel	1259.23151	10823.32524	1.063054007	1063.054007		10823.32524			
San Bernardino (SC)	2031	MHDT	Aggregate	Aggregate	Gasoline	1217.056512	64360.85247	11.53302999	11533.02999	83776.07116	64360.85247	835914.143	MHD	9.98
San Bernardino (SC)	2031	MHDT	Aggregate	Aggregate	Diesel	16418.95117	656863.1522	70.95124656	70951.24656		656863.1522			
San Bernardino (SC)	2031	MHDT	Aggregate	Aggregate	Electricity	2048.40798	103557.552	0	0		103557.552			
San Bernardino (SC)	2031	MHDT	Aggregate	Aggregate	Natural Gas	263.5745946	11132.58627	1.291794605	1291.794605		11132.58627			
San Bernardino (SC)	2031	OBUS	Aggregate	Aggregate	Gasoline	292.8787206	10928.39338	2.014575975	2014.575975	4247.495846	10928.39338	30628.29594	OBUS	7.21
San Bernardino (SC)	2031	OBUS	Aggregate	Aggregate	Diesel	233.6020859	15586.92489	1.976219561	1976.219561		15586.92489			
San Bernardino (SC)	2031	OBUS	Aggregate	Aggregate	Electricity	23.11185418	1696.018792	0	0		1696.018792			
San Bernardino (SC)	2031	OBUS	Aggregate	Aggregate	Natural Gas	42.84534172	2416.958872	0.25670031	256.70031		2416.958872			
San Bernardino (SC)	2031	SBUS	Aggregate	Aggregate	Gasoline	304.644673	14167.66881	1.554267819	1554.267819	4805.464586	14167.66881	32484.73598	SBUS	6.76
San Bernardino (SC)	2031	SBUS	Aggregate	Aggregate	Diesel	277.8293759	5690.995724	0.752803694	752.8036943		5690.995724			
San Bernardino (SC)	2031	SBUS	Aggregate	Aggregate	Electricity	57.68111511	1698.231337	0	0		1698.231337			
San Bernardino (SC)	2031	SBUS	Aggregate	Aggregate	Natural Gas	473.6357668	10927.84011	2.498393073	2498.393073		10927.84011			
San Bernardino (SC)	2031	UBUS	Aggregate	Aggregate	Gasoline	54.26617558	5233.65673	0.376257646	376.2576462	5201.066356	5233.65673	40690.3605	UBUS	7.82
San Bernardino (SC)	2031	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971098	0.002623972	2.623971906		30.10971098			
San Bernardino (SC)	2031	UBUS	Aggregate	Aggregate	Electricity	79.87274041	12448.94906	0	0		12448.94906			
San Bernardino (SC)	2031	UBUS	Aggregate	Aggregate	Natural Gas	179.8944889	22977.645	4.822184738	4822.184738		22977.645			

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APPENDIX 4.4:

CCAP SCREENING TABLES

Table 5. Screening Table for Implementing GHG Performance Standards for Warehouse Non-residential Development, 2030 (Circle Applicable Project Points, 100 points minimum)

Description	Feature	Project Points
Reduction Measure 1: Building Electrification		
Replacement of gas appliance with electric appliance (select all that apply)	Electric space heater	5
	Electric water heater	8
	Electric stove (if applicable)	2
Lack of natural gas infrastructure	Project site does not have any natural gas infrastructure	8
	Total for measure	*23*
Reduction Measure 2: Solar Energy Systems for New Warehouse Development only *(solar energy system required for warehouse development)*		
Installation of rooftop solar energy systems at new warehouse/logistics facilities. (select one option)	Installation of rooftop solar energy system which generates enough electricity to meet 45% of annual warehouse electricity demand.	22
	Installation of rooftop solar energy system which generates enough electricity to meet 90% of annual warehouse electricity demand.	44
	Installation of rooftop solar energy system which generates enough electricity to meet 100% of annual warehouse electricity demand.	48
Installation of battery storage at new warehouse/logistics facilities (select one option)	Solar battery storage installation with a capacity of 200-599 kW (DC).	3
	Solar battery storage installation with a capacity of 600-799 kW (DC).	6
	Solar battery storage installation with a capacity of 800-1200 kW (DC).	11
	Total for measure	*59*
Reduction Measure 3: Green Roofs		
Installation of a roof with a planted layer of vegetation over a waterproof surface for non-residential buildings (select one option)	Medium Green Roof – Total vegetated area makes up 50% of combined non-residential floor area (in square feet).	1
	Large Green Roof – Total vegetated area makes up 100% or more of combined non-residential floor area (in square feet).	2
	Total for measure	*2*
Reduction Measure 4: Urban Cooling		
On-site tree planting	1 tree per each required on-site employee/visitor vehicle parking space.	4
	2 trees per each required on-site employee/visitor vehicle parking space.	8

Description	Feature	Project Points
(select one option)[13]	3 trees per each required on-site employee/visitor vehicle parking space.	15
	Total for measure	*15*
Reduction Measure 5: Transit Oriented Communities (TOCs)		
New development is located in a transit-oriented community (TOC)	The development site is located within ½ mile radius of one or more of the following: a Bus Rapid Transit (BRT) stop, bus transit center, light rail station, the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods, and/or High-Quality Transit Corridor defined as a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.[14]	7
	Total for measure	*7*
Reduction Measure 6: Increase Transit Ridership		
Provision of free transit passes in a quantity equivalent to the expected number of employees at the non-residential building. Transit passes shall be provided for a period of 5 years after completion of construction. [15]	One free annual transit pass for every employee.	6

[13] This strategy specifies the ratio of additional trees per required employee/visitor vehicle parking spaces. Based upon total on-site vehicle parking spaces required per the City of Ontario Development Code for the project, the Applicant will calculate the number of trees required to meet this measure and obtain points. The landscape plan will show onsite trees and the tree matrix shall identify all trees associated with the Urban Cooling Measure compliance. The City code requires trees onsite and within paved areas to reduce the associated heat build-up from development. The Landscape Planning Division will consider these trees and/or potential upsizing of trees on-site to be counted toward the Urban Cooling Measure.

[14] A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor.

[15] Provision for annual transit passes to be incorporated into CC&R's bylaws, as appropriate.

Description	Feature	Project Points
	Total for measure	*6*
Reduction Measure 7: Vehicle Electrification[16]		
Installation of EV charging stations for truck parking spaces (select one option)[17]	Installation of Level 2 or higher EV charging stations at a rate of 5-9% of planned truck parking spaces.	2
	Installation of Level 2 or higher EV charging stations at a rate of 10-19% of planned truck parking spaces.	4
	Installation of Level 2 or higher EV charging stations at a rate of 20-29% of planned truck parking spaces.	6
	Installation of Level 2 or higher EV charging stations at a rate of 30-49% of planned truck parking spaces.	10
	Installation of Level 2 or higher EV charging stations at a rate of 50% or more of planned truck parking spaces.	15
	Total for measure	*15*
Reduction Measure 8: Active Transportation		
Installation or improvement of bicycle facilities (select all that apply)	Bicycle parking facilities with 1:20 ratio of bicycle parking to employee vehicle parking space.	2
	Construct or improve a single bicycle lane facility (only Class I, II, or IV) that 1) connects to a larger existing bikeway network or 2) closes an existing bikeway network gap that is at least 0.5 miles long.	3
Installation or improvement of pedestrian facilities (select one option)	Two or three pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	2
	Four or more pedestrian infrastructure improvements to street design on private streets, including, but not limited to private property curb extensions, raised crosswalks, speed humps/bumps, elevated pavement markings, and public property street tree plantings in parkways or street medians.	4
	Total for measure	*9*

[16] EV charging station levels 1-3 are defined in the California Green Building Standards or CALGreen Code, accessed at https://www.dgs.ca.gov/BSC/CALGreen.

[17] Reduction Measure 7 refers to EV charging stations for two-axle trucks.

Description	Feature	Project Points
Reduction Measure 9: Parking Policy		
Require that employee vehicle parking spaces be purchased at an additional cost. This does not include client/visitor vehicle parking spaces [18]	Unbundle, or separate, 100% of non-residential project's parking costs from property costs, requiring those who wish to purchase parking spaces to do so at an additional cost.	1
	Total for measure	*1*
Reduction Measure 10: Electric construction equipment[19]		
Use electric construction equipment for a portion of the construction project (select one option)	One-third (33%) of construction equipment used for construction (during building phase, not including grading phase), measured by number of hours of operation, is zero emission equipment.	3
	Half (50%) of construction equipment used for construction (during the building phase, not including the grading phase), measured by the number of hours of operation, is zero emission equipment.	5
	Two-thirds (66%) or more of construction equipment used for construction (during the building phase, not including the grading phase), measured by number of hours of operation, is zero emission equipment.	8
	Total for measure	*8*
Reduction Measure 11: Waste diversion		
Site design for non-residential warehouse development includes site(s) for green waste/ organics and recycling collection bins	Site design allocates sufficient space for storage and collection of green waste, organic waste, and recyclables.	20
	Total for measure	*20*
Reduction Measure 12: Water conservation		
Implement indoor water efficiency measures (select all	Install water-efficient faucets and showerheads.	1
	Install on-demand water circulators on commercial sinks or dishwashing equipment.[20]	2

[18] Provision for unbundling parking to be incorporated into CC&R's bylaws or separate parking agreement, as appropriate.

[19] Electric construction equipment includes electric compact excavators, electric motors, electric generators, and mobile charging equipment.

[20] According to CALGreen, a hot water recirculation system is one which includes "a thermostat that will automatically shut off the recirculation pump when the water temperature reaches a preset level at the point of use."

Description	Feature	Project Points
that apply)		
Incorporate outdoor water efficiency measures	Design and plan outdoor landscapes planted with drought-tolerant, low maintenance plants with a 1) drip irrigation system or 2) sprinkler irrigation system with a weather-based irrigation controller.	4
	Total for measure	*7*
	Warehouse Total for measures	***172***
	Warehouse Project Points Subtotal	
Additional Recommended Measures		
AR-1: Charging stations for large trucks (select one option)	Installation of conduit for charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks) so that facilities are prepared for the transition to electric trucks.	4
	Installation of 1-4 charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	8
	Installation of 5-9 charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	12
	Installation of 10 or more charging stations zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	24
AR-2: Meet CalGreen voluntary tiers (select one option)	CalGreen Tier 1 compliance	5
	CalGreen Tier 2 compliance	10
AR-3: Installation of EV charging stations for employee vehicle parking spaces (select one option)	Installation of Level 2 or higher EV charging stations at a rate of 5-9% of planned employee vehicle parking spaces.	4
	Installation of Level 2 or higher EV charging stations at a rate of 10-19% of planned employee vehicle parking spaces with Level 2 EV charging stations.	6
	Installation of Level 2 or higher EV charging stations at a rate of 20% or more of planned employee vehicle parking spaces Level 2 EV charging stations.	12
AR-4: Recycled Water	Use recycled water for at least 80% of outdoor water needs.	2
AR-5: Reflective Paving	Use high-reflectivity pavement for all hardscaped areas, including parking areas, walking paths, and patios.	4
AR-6: Zero Emission Cargo Equipment	Use of zero emission cargo handling equipment for a minimum of 50% of all operations.	4
AR-7: Alternative Fueling	Installation of alternative fuel facilities, such as CNG, biofuels, or hydrogen fueling stations.	10
	Total additional recommended measures	***66***

Description	Feature	Project Points
	Warehouse Project Points Subtotal	
	Total Warehouse Points Possible	***238***
	WAREHOUSE PROJECT POINTS TOTAL	101

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