

Majestic Thousand Palms (GPA220004, CZ2200013, PPT220022, CEQ220033) ENERGY ANALYSIS COUNTY OF RIVERSIDE

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TABLE OF CONTENTS

TΑ	BLE O	PF CONTENTS	
ΑF	PEND	ICES	
LIS	ST OF I	EXHIBITS	
LIS	T OF	TABLES	II
LIS	T OF	ABBREVIATED TERMS	III
EX	ECUTI	VE SUMMARY	1
	ES.1	Summary of Findings	
	ES.2	Project Requirements	
1	IN	TRODUCTION	3
	1.1	Site Location	3
	1.2	Project Description	
2	EX	ISTING CONDITIONS	7
	2.1	Overview	7
	2.2	Electricity	10
	2.3	Natural Gas	11
	2.4	Transportation Energy Resources	14
3	RE	GULATORY BACKGROUND	17
	3.1	Federal Regulations	17
	3.2	California Regulations	
4	PR	OJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES	23
	4.1	Evaluation Criteria	23
	4.2	Methodology	23
	4.3	Construction Energy Demands	24
	4.4	Operational Energy Demands	34
	4.5	Summary	36
5	co	DNCLUSIONS	41
6	RE	FERENCES	45
7	CF	RTIFICATIONS	48



APPENDICES

APPENDIX 4.1: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS APPENDIX 4.2: CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS

APPENDIX 4.3: EMFAC2021

LIST OF EXHIBITS

XHIBIT 1-A: LOCATION MAPXHIBIT 1-B: SITE PLAN			
LIST OF TABLES			
TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS	1		
TABLE 2-1: TOTAL ELECRICITY SYSTEM POWER (CALIFORNIA 2022)			
TABLE 2-2: IID 2022 POWER CONTENT MIX			
TABLE 4-1: CONSTRUCTION DURATION			
TABLE 4-2: CONSTRUCTION POWER COST			
TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE			
TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS			
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES			
TABLE 4-6: CONSTRUCTION TRIPS AND VMT			
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES			
TABLE 4-8: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES	_		
TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION	_		
TABLE 4-10: ON-SITE CARGO HANDLING EQUIPMENT FUEL CONSUMPTION ESTIMATES	ود		
TABLE 4-10: ON-SITE CARGO HANDLING EQUIPMENT FUEL CONSUMPTION ESTIMATES TABLE 4-11: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY			
TABLE 4-TE PROJECT ANNUAL OPERATIONAL ENERGY DEMIAND SUMMARY	3 b		



LIST OF ABBREVIATED TERMS

% Percent (1) Reference

AQIA Majestic Thousand Palms Air Quality Impact Analysis

BACM Best Available Control Measures

BTU British Thermal Units

CalEEMod California Emissions Estimator Model

CAPCOA California Air Pollution Control Officers Association

CARB California Air Resources Board
CCR California Code of Regulations
CEC California Energy Commission

CEQA California Environmental Quality Act

County County of Riverside

CPEP Clean Power and Electrification Pathway
CPUC California Public Utilities Commission

DMV Department of Motor Vehicles

EIA Energy Information Administration

EPA Environmental Protection Agency

EMFAC EMissions FACtor

FERC Federal Energy Regulatory Commission

Final EIR Renaissance Specific Plan Final Environmental Impact

Report

GHG Greenhouse Gas GWh Gigawatt Hour

HHD Heavy-Heavy Duty Trucks
hp-hr-gal Horsepower Hours Per Gallon
IEPR Integrated Energy Policy Report

IID Imperial Irrigation District
ISO Independent Service Operator

ISTEA Intermodal Surface Transportation Efficiency Act

ITE Institute of Transportation Engineers kBTU Thousand-British Thermal Units

kWh Kilowatt Hour
LDA Light Duty Auto
LDT1/LDT2 Light-Duty Trucks

LHD1/LHD2 Light-Heavy Duty Trucks MDV Medium Duty Trucks



MHD Medium-Heavy Duty Trucks MMcfd Million Cubic Feet Per Day

mpg Miles Per Gallon

MPO Metropolitan Planning Organization

PG&E Pacific Gas and Electric
Project Majestic Thousand Palms

PV Photovoltaic

RSP Renaissance Specific Plan
SCAB South Coast Air Basin
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 *Majestic Thousand Palms Energy Analysis* is 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

Anchoria	Report	Significance Findings		
Analysis	Section	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.



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1 INTRODUCTION

This report presents the results of the energy analysis prepared by Urban Crossroads, Inc., for the proposed Majestic Thousand Palms Project (Project). The purpose of this report is to ensure that energy implication is considered by the County of Riverside (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 proposed Project is located on the northeast corner of Rio Del Sol Road and 30th Avenue in the County of Riverside, as shown on Exhibit 1-A.

1.2 PROJECT DESCRIPTION

A preliminary site plan for the proposed Project is shown on Exhibit 1-B. The Project is proposed to consist of the development of a 1,238,992 square foot warehouse building and is anticipated to be fully developed by 2025. A water quality basin is proposed along the southern boundary of the site and a customer electric substation to be serviced by Imperial Irrigation District (IID) is proposed in the southeastern corner of the site, connected to the IID distribution system by offsite, above-ground, pole-mounted utility lines.



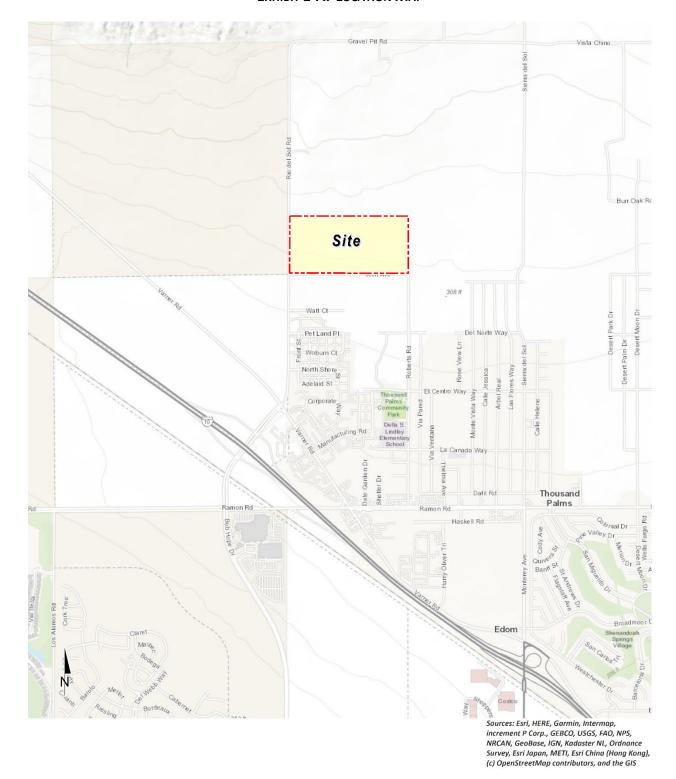
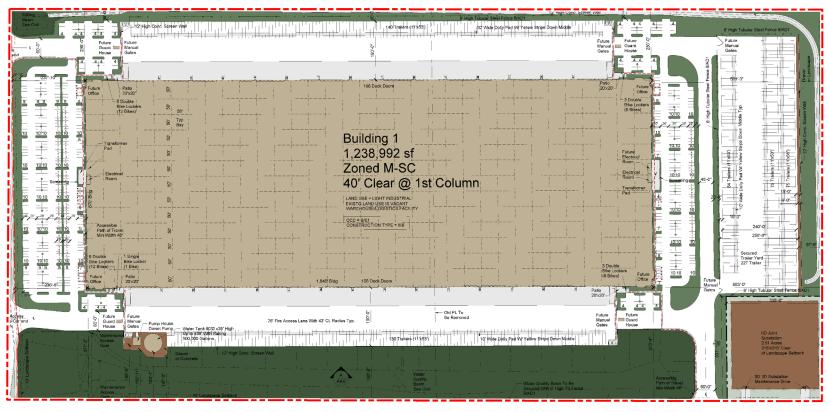


EXHIBIT 1-A: LOCATION MAP



EXHIBIT 1-B: SITE 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 2020, released by the United States (U.S.) Energy Information Administration's (EIA) California State Profile and Energy Estimates in 2021 and included (2):

- As of 2020, approximately 6,923 trillion British Thermal Unit (BTU) of energy was consumed
- As of 2021, approximately 605 million barrels of petroleum
- As of 2021, approximately 2,101 billion cubic feet of natural gas
- As of 2021, approximately 1 million short tons of coal

According to the EIA, in 2021 the U.S. petroleum consumption comprised about 77% of all transportation energy use, excluding fuel consumed for aviation and most marine vessels (3). In 2022, about 251,923 million gallons (or about 5.99 million barrels) of finished petroleum products were consumed in the U.S., an average of about 690 million gallons per day (or about 16.4 million barrels per day) (4). In 2021, California consumed approximately 12,157 million gallons in motor gasoline (33.31 million per day) and approximately 3,541 million gallons of diesel fuel (9.7 million per day) (5).

The most recent data provided by the EIA for energy use in California is reported from 2021 and provided by demand sectors as follows:

- Approximately 37.8% transportation sector
- Approximately 23.2% industrial sector
- Approximately 20.0% residential sector
- Approximately 19.0% commercial sector (6)
- Approximately 19.6% commercial (6)

According to the EIA, California used approximately 247,250 gigawatt hours of electricity in 2021 (7). By sector in 2021, residential uses utilized 36.5% of the state's electricity, followed by 43.9% for commercial uses, 19.2% 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 (7).

According to the EIA, California used approximately 200,871 million therms of natural gas in 2021 (8). In 2021 (the most recent year for which data is available), by sector, industrial uses utilized 33% of the state's natural gas, followed by 30% used as fuel in the electric power sector, 21% from residential, 11% from commercial, 1% from transportation uses and the remaining 3% was utilized for the operations, processing and production of natural gas itself (8). 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 2022, total system electric generation for California was 287,220 gigawatt hours (GWh). California's massive electricity in-state generation system generated approximately 203,257 GWh which accounted for approximately 70% of the electricity it uses; the rest was imported from the Pacific Northwest (12%) and the U.S. Southwest (17%) (10). Natural gas is the main source for electricity generation at 47.46% 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 2022, California was the seventh-largest producer of crude oil among the 50 states, and, as of January 2022, 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.
- In 2020, California was the second-largest total energy consumer among the states, but its per capita energy consumption was less than in all but three other states.
- In 2022, renewable resources, including hydroelectric power and small-scale, customer-sited solar power, accounted for 49% of California's in-state electricity generation. Natural gas fueled another 42%. Nuclear power supplied almost all the rest.
- In 2022, California was the fourth-largest electricity producer in the nation. The state was also the
 nation's third-largest electricity consumer, and additional needed electricity supplies came from
 out-of-state generators.

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 ELECRICITY SYSTEM POWER (CALIFORNIA 2022)

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	273	0.13%	181	5,716	5,897	8,272	2.15%
Natural Gas	96,457	47.46%	44	7,994	8,038	105,356	36.38%
Oil	65	0.03%	-	-	-	37	0.02%
Other (Waste Heat/Petroleum Coke)	315	0.15%	-	-	-	465	0.11%
Unspecified	-	0.00%	12485	7,943	20,428	25,758	7.11%
Total Thermal and Unspecified	97,110	47.78%	12,710	21,653	34,363	25,656	45.77%
Nuclear	17627	8.67%	397	8,342	8,739	18,887	9.18%
Large Hydro	14,607	7.19%	10,803	1,118	11,921	184,431	9.24%
Biomass	5,366	2.64%	771	25	797	6,271	2.15%
Geothermal	11,110	5.47%	253	2,048	2,301	13,214	4.67%
Small Hydro	3,005	1.48%	211	13	225	2,835	1.12%
Solar	40,494	19.92%	231	8,225	8,456	39,458	17.04%
Wind	13,938	6.86%	8,804	8,357	17,161	31,555	10.83%
Total Non-GHG and Renewables	106,147	52.22%	21,471	28,129	49,599	93,333	54.23%
Total Energy	203,257	100.00%	34,180	49,782	83,962	277,764	100.00%

Source: CECs 2022 Total System Electric Generation



2.2 ELECTRICITY

The usage associated with electricity use were 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 South Coast Air Basin (SCAB) 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 (12). Similarly, the subsequent 2022 IEPR's provides information and policy recommendations on advancing a clean, reliable, and affordable energy system.

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 the Imperial Irrigation District (IID). IID provides electric power to more than 158,000 persons in the Imperial Valley and parts of Riverside and San Diego counties. Based on IID's 2022 Power Content Label Mix, IID derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, and solar power generation. IID also purchases from independent power producers and utilities, including out-of-state suppliers (14).

Table 2-2, IID's specific proportional shares of electricity sources in 2022. As indicated in Table 2-2, the 2022 IID Power Mix has renewable energy at 37.7% of the overall energy resources.



Geothermal resources are at 11.3%, wind power is at 0.0%, large hydroelectric sources are at 4.6%, solar energy is at 12.0%, and coal is at 0% (15).

TABLE 2-2: IID 2022 POWER CONTENT MIX

Energy Resources	2022 IID Power Mix
Eligible Renewable	37.7%
Biomass & Waste	7.8%
Geothermal	11.3%
Eligible Hydroelectric	6.6%
Solar	12.0%
Wind	0.0%
Coal	0.0%
Large Hydroelectric	4.6%
Natural Gas	35.3%
Nuclear	3.4%
Other	0.0%
Unspecified Sources of power*	19.0%
Total	100%

^{* &}quot;Unspecified sources of power" means electricity from transactions that are not traceable to specific generation sources

2.3 NATURAL GAS

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

"The CPUC regulates natural gas utility service for approximately 10.8 million customers that receive natural gas from Pacific Gas and Electric (PG&E), Southern California Gas (SoCalGas), San Diego Gas & Electric (SDG&E), Southwest Gas, and several smaller natural gas utilities. The CPUC also regulates independent storage operators: Lodi Gas Storage, Wild Goose Storage, Central Valley Storage and Gill Ranch Storage.

California's natural gas utilities provide service to over 11 million gas meters. SoCalGas and PG&E provide service to about 5.9 million and 4.3 million customers, respectively, while SDG&E provides service to over 800, 000 customers. In 2018, California gas utilities forecasted that they would deliver about 4740 million cubic feet per day (MMcfd) of gas to their customers, on average, under normal weather conditions.

The overwhelming majority of natural gas utility customers in California are residential and small commercials customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers



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

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

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

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines that deliver out-of-state natural gas to California gas utilities 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 California Public Utilities Commission 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 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.

Based on information provided by the Project applicant, no natural gas would be used as a result of the Project, and as such use of natural gas is not considered in the analysis.

2.4 Transportation Energy Resources

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. The Department of Motor Vehicles (DMV) identified 36.2 million registered vehicles in California (6), and those vehicles consume an



estimated 17.2 billion gallons of fuel each year¹. 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 (6). While gasoline consumption has been declining since 2008 it is still by far the dominant fuel. California is the second-largest consumer of petroleum products, after Texas, and accounts for 8% of the nation's total consumption. The State is the largest U.S. consumer of motor gasoline and jet fuel, and 83% of the petroleum consumed in California is used in the transportation sector (17).

California accounts for less than 1% of total U.S. natural gas reserves and production. As with crude oil, California's natural gas production has experienced a gradual decline since 1985. In 2021, about 33% of the natural gas delivered to consumers went to the State's industrial sector, and about 31% was delivered to the electric power sector. Natural gas fueled more than two-fifths of the State's utility-scale electricity generation in 2021. The residential sector, where three-fifths of California households use natural gas for home heating, accounted for 22% of natural gas deliveries. The commercial sector received 12% of the deliveries to end users and the transportation sector consumed the remaining 1% (17).

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¹ Fuel consumptions estimated utilizing information from EMFAC2021.

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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. TEA-21 authorizes highway, highway safety, transit, and other efficient surface transportation programs. 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. 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, 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 2022 IEPR was adopted February 2023, and continues to work towards improving electricity, natural gas, and transportation fuel energy use in California. The 2022 IEPR introduces a new



framework for embedding equity and environmental justice at the CEC and the California Energy Planning Library which allows for easier access to energy data and analytics for a wide range of users. Additionally, energy reliability, western electricity integration, gasoline cost factors and price spikes, the role of hydrogen in California's clean energy future, fossil gas transition and distributed energy resources are topics discussed within the 2022 IEPR (18).

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 Plan calls for the state to assist in the transformation of the transportation system to improve air quality, reduce congestion, and increase the efficient use of fuel supplies with the least environmental and energy costs. To further this policy, the plan identifies several strategies, including assistance to public agencies and fleet operators and encouragement of urban designs that reduce vehicle miles traveled (VMT) and accommodate pedestrian and bicycle access.

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

California Code of Regulations (CCR) Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings, was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.

The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. Energy efficient buildings require less electricity; therefore, increased energy efficiency reduces fossil fuel consumption and decreases greenhouse gas (GHG) emissions. The 2022 version of Title 24 was adopted by the CEC and became effective on January 1, 2023. The 2022 Title 24 standards require solar photovoltaic systems for new homes, establish requirements for newly constructed healthcare facilities, encourage demand responsive technologies for residential buildings, and update indoor and outdoor lighting standards for nonresidential buildings.

The CEC anticipates that the 2022 energy code will provide \$1.5 billion in consumer benefits and reduce GHG emissions by 10 million metric tons (19). The Project would be required to comply with the applicable standards in place at the time building permit document submittals are made. These require, among other items (20):

NONRESIDENTIAL MANDATORY MEASURES

- Short-term bicycle parking. If the new project or an additional alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack (5.106.4.1.1).
- Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5% of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility (5.106.4.1.2).



- Designated parking for clean air vehicles. In new projects or additions to alterations that add 10 or more vehicular parking spaces, provide designated parking for any combination of low-emitting, fuel-efficient and carpool/van pool vehicles as shown in Table 5.106.5.2 (5.106.5.2).
- EV charging stations. New construction shall facilitate the future installation of EV supply equipment. The compliance requires empty raceways for future conduit and documentation that the electrical system has adequate capacity for the future load. The number of spaces to be provided for is contained in Table 5.106. 5.3.3 (5.106.5.3). Additionally, Table 5.106.5.4.1 specifies requirements for the installation of raceway conduit and panel power requirements for medium- and heavy-duty electric vehicle supply equipment for warehouses, grocery stores, and retail stores.
- Outdoor light pollution reduction. Outdoor lighting systems shall be designed to meet the backlight, uplight and glare ratings per Table 5.106.8 (5.106.8).
- Construction waste management. Recycle and/or salvage for reuse a minimum of 65% of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1. 5.405.1.2, or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent (5.408.1).
- Excavated soil and land clearing debris. 100% of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reuse or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed (5.408.3).
- Recycling by Occupants. Provide readily accessible areas that serve the entire building and are
 identified for the depositing, storage, and collection of non-hazardous materials for
 recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic
 waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive
 (5.410.1).
- Water conserving plumbing fixtures and fittings. Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:
 - Water Closets. The effective flush volume of all water closets shall not exceed
 1.28 gallons per flush (5.303.3.1)
 - Urinals. The effective flush volume of wall-mounted urinals shall not exceed
 0.125 gallons per flush (5.303.3.2.1). The effective flush volume of floor- mounted or other urinals shall not exceed 0.5 gallons per flush (5.303.3.2.2).
 - Showerheads. Single showerheads shall have a minimum flow rate of not more than 1.8 gallons per minute and 80 psi (5.303.3.3.1). When a shower is served by more than one showerhead, the combine flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi (5.303.3.3.2).
 - Faucets and fountains. Nonresidential lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi (5.303.3.4.1). Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute of 60 psi (5.303.3.4.2). Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute (5.303.3.4.3). Metering faucets shall not deliver more than 0.20 gallons per cycle (5.303.3.4.4). Metering faucets for wash fountains shall have a maximum flow rate not more than 0.20 gallons per cycle (5.303.3.4.5).



- Outdoor potable water uses in landscaped areas. Nonresidential developments shall comply
 with a local water efficient landscape ordinance or the current California Department of
 Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more
 stringent (5.304.1).
- Water meters. Separate submeters or metering devices shall be installed for new buildings or additions in excess of 50,000 sf or for excess consumption where any tenant within a new building or within an addition that is project to consume more than 1,000 gallons per day (GPD) (5.303.1.1 and 5.303.1.2).
- Outdoor water uses in rehabilitated landscape projects equal or greater than 2,500 sf. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 2,500 sf requiring a building or landscape permit (5.304.3).
- Commissioning. For new buildings 10,000 sf and over, building commissioning shall be
 included in the design and construction processes of the building project to verify that the
 building systems and components meet the owner's or owner representative's project
 requirements (5.410.2)

3.2.4 AB 1493 Pavley Regulations and Fuel Efficiency Standards

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

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 33% of total retail sales by 2020 (21).

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 electrify 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 RIVERSIDE COUNTY CLIMATE ACTION PLAN

The Project is subject to the Riverside County Climate Action Plan (CAP), as shown in the Project's Greenhouse Gas Analysis, the Project would comply with the County's CAP and result in a less than significant impact. The County's CAP is intended to reduce energy consumption through increasing energy efficiency and using alternative sustainable sources of energy. The Project does not conflict with any applicable CAP measures.



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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

Appendix F of the *State CEQA Guidelines* (22), 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* (23), this report analyzes the Project's anticipated energy use during construction and operations to determine if the Project would:

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

4.2 METHODOLOGY

Information from the CalEEMod Version 2022 outputs for the *Majestic Thousand Palms* (*GPA220004, CZ2200013, PPT220022, CEQ220033*) Air Quality Impact Analysis (AQIA) (24) was utilized in this analysis, detailing Project related construction equipment, transportation energy demands, and facility energy demands.

4.2.1 CALEEMOD

In May 2023, the SCAQMD, in conjunction with the California Air Pollution Control Officers Association (CAPCOA) and other California air districts, released the latest version of the CalEEMod Version 2022.1.1.18. 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 (25). Accordingly, the latest version of CalEEMod has been used to determine the proposed Project's anticipated transportation and facility energy demands. Outputs from the annual model runs are provided in Appendices 4.1 through 4.3.

4.2.2 EMISSION FACTORS MODEL

On May 2, 2022, the EPA approved the 2021 version of the EMissions FACtor model (EMFAC2021) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from onroad mobile sources (26). 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 2023 through 2025 analysis years were utilized to determine the average vehicle fuel economy used throughout the duration of the Project. Outputs from the EMFAC2021 model run is provided in Appendix 4.3.

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, construction of Project is expected to commence in June 2024 and would last through May 2025 (24). 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* (27).

Construction Activity Start Date End Date Working Days Site Preparation 6/1/2024 8/23/2024 60 7/1/2024 90 Grading 11/1/2024 **Substation Construction** 8/1/2024 2/28/2025 152 **Building Construction** 10/1/2024 5/1/2025 153 Off-Site 1/1/2025 3/31/2025 64 Utility and Infrastructure 4/1/2025 23 Paving 5/1/2025 **Architectural Coating** 11/1/2024 5/1/2025 130

TABLE 4-1: CONSTRUCTION DURATION

PROJECT CONSTRUCTION POWER COST

The 2023 National Construction Estimator identifies a typical power cost per 1,000 sf of construction per month of \$2.50, which was used to calculate the Project's total construction power cost (28).

As shown on Table 4-2, the total power cost of the on-site electricity usage during the construction of the Project is estimated to be approximately \$82,719.01.



TABLE 4-2: CONSTRUCTION POWER COST

Land Use	Power Cost (per 1,000 SF of construction per month)	Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
High-Cube Fulfillment	\$2.50	991.194	11	\$27,257.84
High-Cube Cold Storage	\$2.50	247.798	11	\$6,814.45
Parking Lot	\$2.50	1,659.636	11	\$45,639.99
IID Substation	\$2.50	109.336	11	\$3,006.74
	\$82,719.01			

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 kilowatt hour (kWh) of electricity.

PROJECT CONSTRUCTION ELECTRICITY USAGE

The IID's general service rate schedule were used to determine the Project's electrical usage. As of January 1, 2015, IID's general service rate is \$0.093 per kilowatt hours (kWh) of electricity for large general service (29). As shown on Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 889,452 kWh.

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
High-Cube Fulfillment	\$0.09	293,095
High-Cube Cold Storage	\$0.09	73,274
Parking Lot	\$0.09	490,753
IID Substation	\$0.09	32,331
CONSTRUCTION	889,452	

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 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 would operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the County Code.

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

Construction Activity	Equipment	Amount	Hours Per Day
Cita Duanavatian	Rubber Tired Dozers	3	8
Site Preparation	Crawler Tractors	4	8
	Excavators	2	8
	Graders	1	8
Grading	Rubber Tired Dozers	1	8
	Scrapers	2	8
	Crawler Tractors	2	8
	Cranes	2	8
	Forklifts	3	8
Substation Construction	Generator Sets 1		8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
	Cranes	1	8
	Forklifts	3	8
Building Construction	Generator Sets	1	8
	Tractors/Loaders/Backhoes	3	8
	Welders	1	8
	Excavators	1	8
Off-Site Utility and Infrastructure Improvements	Off-Highway Trucks	1	8
	Other Construction Equipment	1	8
	Pavers	2	8
Paving	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

PROJECT CONSTRUCTION EQUIPMENT FUEL CONSUMPTION

Project construction activity timeline estimates, construction equipment schedules, equipment power ratings, load factors, and associated fuel consumption estimates are presented in Table 4-



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 (30). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered, which is consistent with industry standards.



TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP- hrs/day	Total Fuel Consumption
Cita Duana nation	60	Rubber Tired Dozers	367	3	8	0.4	3,523	11,427
Site Preparation	60	Crawler Tractors	84	4	8	0.37	995	3,226
		Excavators	36	2	8	0.38	219	1,065
		Graders	148	1	8	0.41	485	2,362
Grading	90	Rubber Tired Dozers	367	1	8	0.4	1,174	5,713
		Scrapers	423	2	8	0.48	3,249	15,804
		Crawler Tractors	84	2	8	0.37	497	2,419
		Cranes	367	2	8	0.29	1,703	3,958
		Forklifts	82	3	8	0.2	394	915
	43	Generator Sets	14	1	8	0.74	83	193
Substation		Tractors/Loaders/Backhoes	84	3	8	0.37	746	1,734
Construction		Welders	46	1	8	0.45	166	385
		Off-Highway Trucks	376	2	8	0.38	2,286	5,314
	100	Cranes	367	1	8	0.29	851	5,017
	109	Off-Highway Trucks	376	2	8	0.38	2,286	13,469
		Cranes	367	1	8	0.29	851	7,042
		Forklifts	82	3	8	0.2	394	3,255
Building Construction	153	Generator Sets	14	1	8	0.74	83	685
		Tractors/Loaders/Backhoes	84	3	8	0.37	746	6,169
		Welders	46	1	8	0.45	166	1,370
Off-Site Utility and		Excavators	36	1	8	0.38	109	379
Infrastructure	64	Off-Highway Trucks	376	1	8	0.38	1,143	3,954
Improvements		Other Construction	82	1	8	0.42	276	953

Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP- hrs/day	Total Fuel Consumption
		Pavers	81	2	8	0.42	544	677
Paving	23	Paving Equipment	89	2	8	0.36	513	637
		Rollers	36	2	8	0.38	219	272
Architectural Coating	130	Air Compressors	37	1	8	0.48	142	998
CONSTRUCTION FUEL DEMAND (GALLONS FUEL)							99,390	

Diesel fuel would be supplied by existing commercial fuel providers serving the Project area and region². As previously presented in Table 4-5, Project construction activities would consume an estimated 99,390 gallons of diesel fuel. Project construction would represent a "single-event" diesel fuel demand and would not require ongoing or permanent commitment of diesel fuel resources for this purpose.

4.3.4 CONSTRUCTION TRIPS AND VMT

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and haul truck commuting to and from the site. The number of workers, vendor, and haul 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.

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day	Hauling Trips Per Day
Site Preparation	18	40	0
Grading	20	60	140
Substation Construction	520	103	0
Building Construction	520	103	0
Off-Site Utility and Infrastructure	8	0	0
Paving	15	0	0
Architectural Coating	104	0	0

TABLE 4-6: CONSTRUCTION TRIPS AND VMT

4.3.5 CONSTRUCTION WORKER FUEL ESTIMATES

With respect to estimated VMT for the Project, the construction worker trips (personal vehicles used by workers commuting to the Project from home) would generate an estimated 1,740,277 VMT during the 11 months of construction (24). Based on CalEEMod methodology, it is assumed that 50% of all construction worker trips are from light-duty-auto vehicles (LDA), 25% are from light-duty-trucks (LDT1³), and 25% are from light-duty-trucks (LDT2⁴). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2021 version of the EMFAC developed by CARB. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the



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.

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.

CARB to project changes in future emissions from on-road mobile sources (26). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the Riverside (SS) sub-area for the 2024 through 2026 calendar years. Data from EMFAC2021 is shown in Appendix 4.3.

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES

Year	Construction Activity	Duration (Days)	Worker Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
				LDA			
	Site Preparation	60	9	18.5	9,990	31.15	321
	Grading	90	10	18.5	16,650	31.15	535
	Substation Const.	109	260	18.5	524,290	31.15	16,832
	Building Construction	66	260	18.5	317,460	31.15	10,192
	Architectural Coating	43	52	18.5	41,366	31.15	1,328
				LDT1			
	Site Preparation	60	5	18.5	4,995	23.65	211
2024	Grading	90	5	18.5	8,325	23.65	352
2024	Substation Const.	109	130	18.5	262,145	23.65	11,084
	Building Construction	66	130	18.5	158,730	23.65	6,711
	Architectural Coating	43	26	18.5	20,683	23.65	874
				LDT2			
	Site Preparation	60	5	18.5	4,995	23.77	210
	Grading	90	5	18.5	8,325	23.77	350
	Substation Const.	109	130	18.5	262,145	23.77	11,028
	Building Construction	66	130	18.5	158,730	23.77	6,677
	Architectural Coating	43	26	18.5	20,683	23.77	870
				LDA			
	Substation Const.	43	260	18.5	206,830	32.28	6,408
	Building Construction	87	260	18.5	418,470	32.28	12,965
	Off-Site Utilities	64	4	18.5	4,736	32.28	147
2025	Paving	23	8	18.5	3,191	32.28	99
2025	Architectural Coating	87	52	18.5	83,694	32.28	2,593
				LDT1			
	Substation Const.	43	130	18.5	103,415	24.44	4,231
	Building Construction	87	130	18.5	209,235	24.14	8,667
	Off-Site Utilities	64	2	18.5	2,368	24.14	98

Year	Construction Activity	Duration (Days)	Worker Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
	Paving	23	4	18.5	1,596	24.14	66
	Architectural Coating	87	26	18.5	41,847	24.14	1,733
				LDT2			
	Substation Const.	109	130	18.5	262,145	24.44	10,726
	Building Construction	87	130	18.5	209,235	24.44	8,561
	Off-Site Utilities	64	2	18.5	2,368	24.44	97
	Paving	23	4	18.5	1,596	24.44	65
	Architectural Coating	87	26	18.5	41,847	24.44	1,712
	-	TO	TAL CONST	RUCTION W	VORKER FUEL	CONSUMPTION	119,302

As previously shown in Table 4-7, the estimated annual fuel consumption resulting from Project construction worker trips is 119,302 gallons during full construction of the Project. It should be noted that construction worker trips would represent a "single-event" gasoline fuel demand and would not require ongoing or permanent commitment of fuel resources for this purpose.

4.3.6 Construction Vendor/Hauling Fuel Estimates

With respect to estimated VMT, the construction vendor trips (vehicles that deliver materials to the site during construction) would generate an estimated 491,808 VMT along area roadways for the Project over the duration of construction activity (24). It is assumed that 50% of all vendor trips are from medium-heavy duty trucks (MHD), 50% of all vendor trips are from heavy-heavy duty trucks (HHD), and 100% of all hauling trips are from HHD trucks. These assumptions are consistent with the CalEEMod defaults utilized within the within the AQIA (24). Vehicle fuel efficiencies for MHDs and HHDs were estimated using information generated within EMFAC2021. EMFAC2021 was run for the MHD and HHD vehicle classes within the Riverside (SS) sub-area for the 2024 through 2025 calendar years. Data from EMFAC2021 is shown in Appendix 4.3.

TABLE 4-8: CONSTRUCTION VENDOR FUEL CONSUMPTION ESTIMATES

Year	Construction Activity	Duration (Days)	Vendor Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
				MHD			
	Site Preparation	60	20	10.2	12,240	7.58	1,614
	Grading	90	30	10.2	27,540	7.58	3,633
2024	Substation Const.	43	52	10.2	22,807	7.58	3,008
	Building Construction	66	52	10.2	34,670	7.58	4,573
			Н	HD (Vendo	r)		
	Site Preparation	60	20	10.2	12,240	6.19	1,976



Year	Construction Activity	Duration (Days)	Vendor Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)
	Grading	90	30	10.2	27,540	6.19	4,447
	Substation Const.	43	51.5	10.2	22,588	6.19	3,647
	Building Construction	66	52	10.2 34,670		6.19	5,598
Subst Building C			Н	HD (Haulin	g)		
	Grading	90	140	13.9 175,140		6.19	28,278
				MHD			
	Substation Const.	109	52	10.2	57,814	7.67	7,533
	Building Construction	87	52	10.2	45,701	7.67	5,955
2025			Н	HD (Vendo	r)		
	Substation Const.	109	51.5	10.2	57,258	6.32	9,065
	Building Construction	87	51.5	10.2	45,701	6.32	7,236
		TO	OTAL CONST	RUCTION V	ENDOR FUEL	CONSUMPTION	86,563

Based on Table 4-8, it is estimated that 86,563 gallons of fuel will be consumed related to construction vendor trips during full construction of the Project. 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.

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 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 County building officials, and/or in response to citizen complaints.

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

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

4.4 OPERATIONAL ENERGY DEMANDS

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

4.4.1 TRANSPORTATION FUEL DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The VMT per vehicle class can be determined by evaluated in the vehicle fleet mix and the total VMT.

As with worker and vendors trips, operational vehicle fuel efficiencies were estimated using information generated within EMFAC2021 developed by CARB (26). EMFAC2021 was run for the Riverside (SS) sub-area for the 2024 through 2025 calendar years. Data from EMFAC2021 is shown in Appendix 4.3.

In order to account for the possibility of refrigerated uses (cold storage) that would be accommodated by the high-cube cold storage warehouse proposed, it is assumed that all trucks accessing this land use are presumed to also have transport refrigeration units (TRUs). Therefore, for modeling purposes 93 trucks are assumed to be trucks with TRUs. TRUs are also accounted for during on-site and off-site travel. TRU calculations are based on EMFAC2021.



The estimated transportation energy demands were previously summarized on Table 4-9. As summarized on Table 4-9 the Project would result in 29,332,699 annual VMT and an estimated annual fuel consumption of 3,043,533 gallons of fuel.

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

Vehicle Type	Average Vehicle Fuel Economy (mpg)	Annual VMT	Estimated Annual Fuel Consumption (gallons)
LDA	32.28	5,663,846	175,482
LDT1	24.14	508,086	21,046
LDT2	24.44	2,804,524	114,747
MDV	14.96	1,962,604	131,231
MCY	14.96	221,868	14,835
LHDT1	16.40	2,581,298	157,430
LHDT2	14.96	785,635	52,532
MHDT	7.67	1,949,277	253,991
HHDT	6.32	12,855,561	2,035,333
TRUs			86,906
	TOTAL (ALL VEHICLES)	29,332,699	3,043,533

4.4.2 On-Site Cargo Handling Equipment Fuel Demands

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to four (4) 175 horsepower (hp), natural gas-powered cargo handling equipment – port tractors operating at 4 hours a day⁵ for 365 days of the year.

Project operational activity estimates and associated fuel consumption estimates are based on the annual EMFAC2021 offroad emissions for the 2025 operational year and was used to derive the total annual fuel consumption associated on-site equipment. As presented in Table 4-10, Project on-site equipment would consume an estimated 18,567 gallons of natural gas.

TABLE 4-10: ON-SITE CARGO HANDLING EQUIPMENT FUEL CONSUMPTION ESTIMATES

Equipment	Quantity	Usage Hours	Days of Operation	EMFAC2021 Fuel Consumption (gal./yr)	EMFAC2021 Activity (hrs./yr)	Total Fuel Consumption
Cargo Handling Equipment	4	4	365	17,909	5,633	18,567
ON-SITE	CARGO HAN	IDLING EC	UIPMENT FU	EL DEMAND (GA	LLONS FUEL)	18,567

⁵ Based on Table II-3, Port and Rail Cargo Handling Equipment Demographics by Type, from CARB's Technology Assessment: Mobile Cargo Handling Equipment document, a single piece of equipment could operate up to 2 hours per day (Total Average Annual Activity divided by Total Number Pieces of Equipment). As such, the analysis conservatively assumes that the tractor/loader/backhoe would operate up to 4 hours per day.

14174-03 EA Report



35

4.4.3 FACILITY ENERGY DEMANDS

Project building operations activities would result in the consumption of electricity, which would be supplied to the Project by IID. Electricity usage associated with the Project was calculated based on client provided data and includes 20% of the building user's electric power from renewable sources. As summarized on Table 4-11 the Project would result in 8,563,734 kWh/year of electricity.

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.

Land Use	Electricity Demand (kWh/year)
High-Cube Fulfillment Center	4,711,274
High-Cube Cold Storage	2,243,230
Parking Lot	1,609,230
TOTAL PROJECT ENERGY DEMAND	8,563,734

TABLE 4-11: PROJECT ANNUAL OPERATIONAL ENERGY DEMAND SUMMARY

4.4.4 OPERATIONAL ENERGY EFFICIENCY/CONSERVATION MEASURES

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

ENHANCED VEHICLE FUEL EFFICIENCIES

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

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands.

4.5 SUMMARY

4.5.1 CONSTRUCTION ENERGY DEMANDS

The estimated power cost of on-site electricity usage during the construction of the Project is assumed to be approximately \$82,719.01. Additionally, based on the assumed power cost, it is



estimated that the total electricity usage during construction, after full Project buildout, is calculated to be approximately 889,452 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 99,390 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 County 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 119,302 gallons of fuel. Additionally, fuel consumption from construction vendor and hauling trips (MHDs and HHDs) will total approximately 86,563 gallons. Diesel fuel would be supplied by County and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 2022 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 (18). 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 3,043,533 gallons of fuel.

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

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



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

- CARB's Mobile Source Strategy focuses on reducing GHGs through the transition to zero and low emission vehicles and from medium-duty and heavy-duty trucks.
- CARB's Sustainable Freight Action Plan establishes a goal to improve freight efficiency by 25% by 2030, deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
- CARB's Emissions Reduction Plan for Ports and Goods Movement (Goods Movement Plan) in California focuses on reducing heavy-duty truck-related emissions focus on establishment of emissions standards for trucks, fleet turnover, truck retrofits, and restriction on truck idling (CARB 2006). While the focus of Goods Movement Plan is to reduce criteria air pollutant and air toxic emissions, the strategies to reduce these pollutants would also generally have a beneficial effect in reducing GHG emissions.
- CARB's On-Road Truck and Bus Regulation (2010) requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023, nearly all trucks and buses will need to have 2010 model year engines or equivalent (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. Location of the Project proximate to regional and local roadway systems tends to reduce VMT within the region, acting to reduce regional vehicle energy demands. The Project would implement sidewalks, facilitating and encouraging pedestrian access. Facilitating pedestrian and bicycle access would reduce VMT and associated energy consumption. In compliance with the California Green Building Standards Code and County requirements, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

On-Site Cargo Handling Equipment Fuel Demands

As previously stated, it is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. On-site cargo handling equipment used by the Project would result in approximately 18,567 gallons of natural gas. On-site equipment use of fuel would not be atypical for the type of construction proposed because there are no aspects of the Project's proposed operations that are unusual or energy-intensive, and



Project on-site equipment would conform to the applicable CARB emissions standards, acting to promote equipment fuel efficiencies.

FACILITY ENERGY DEMANDS

Project facility operational energy demands are estimated to be: 8,563,734 kWh/year of electricity which would be supplied by IID. Electricity is not currently available at the Project site, requiring installation of the electrical substation that is part of the proposed Project. Based on information provided by the Project Applicant, the Project would not use natural gas. 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.

Implementation of the Project would increase the demand for electricity at the Project site and petroleum consumption in the region during operation. However, the electrical consumption demands of the Project during operation would conform to the state's Title 24 and to CALGreen standards, which implement conservation measures. Further, the proposed Project would not directly require the construction of new energy generation or supply facilities and providers of electricity are in compliance with regulatory requirements that assist in conservation, including requirements that electrical providers achieve state-mandated renewal energy production requirements. With compliance with Title 24 conservation standards and other regulatory requirements, the Project would not be wasteful or inefficient or unnecessarily consume energy resources during construction or operation and would result in a less-than-significant impact with respect to consumption of energy resources. Lastly, the Project will comply with the applicable 2022 Title 24 standards. Compliance 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 files used to estimate GHG emissions associated with future development projects, construction-related vehicle trips would result in approximately 3,581,067 VMT and consume an estimated 205,865 gallons of gasoline and diesel combined during future development projects construction phases. Additionally, on-site construction equipment would consume an estimated 99,390 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 ARB. 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. Building operations would involve energy consumption for multiple purposes including, but not limited to, building heating and cooling, refrigeration, lighting, and electronics. Based on client provided energy use estimations, operations for the Project would result in approximately 8,563,734 kWh of electricity and 0 kBTU/year of natural gas annually.

Future development 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 are 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.

Additionally, the proposed Project would comply with the County of Riverside Climate Action Plan (CAP) and achieve at least 100 CAP screening table points by implementing several energy-saving features, including enhanced insulation, high efficiency lighting and water heating, and electric vehicle charging stations.

Fuel

Operational energy would also be consumed during vehicle trips associated with future development projects envisioned under the proposed project. Fuel consumption would be primarily related to vehicle use by residents, visitors, and employees associated with future development projects. Based on CalEEMod energy use estimations, project-related vehicle trips would result in approximately 29.33 million VMT and consume an estimated 3,043,533 gallons of gasoline and diesel combined, annually (see Appendix 4.3).

The Project is located on an infill site that is surrounded by existing urban uses, the existing transportation facilities and infrastructure would provide future residents, visitors, and employees associated with the Project access to a mix of land uses in close proximity to the Project, thus further reducing fuel consumption demand. Additionally, the Project will also be providing parking and EV infrastructure that would further promote fuel efficient vehicles. 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, 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

California's Renewable Portfolio Standard (RPS) establishes a goal of renewable energy for local providers to be 44 percent by 2040. Similarly, the State is promoting renewable energy targets to meet the 2022 Scoping Plan greenhouse gas emissions reductions. As discussed in Section 5.1, above, the Project would result in approximately 8,563,734 kWh of electricity and 0 kBTU/year of natural gas annually.

Future development 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 are 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 future development projects 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.



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7 CERTIFICATIONS

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EDUCATION

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

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

PROFESSIONAL AFFILIATIONS

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

PROFESSIONAL CERTIFICATIONS

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



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APPENDIX 4.1:

CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS



14174 Thousand Palms Construction without Mitigation 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. Transmission Line (2025) Unmitigated
 - 3.3. Site Preparation (2024) Unmitigated
 - 3.5. Grading (2024) Unmitigated
 - 3.7. Building Construction (2024) Unmitigated
 - 3.9. Building Construction (2025) Unmitigated
 - 3.11. Substation Construction (2024) Unmitigated

- 3.13. Substation Overlap (2024) Unmitigated
- 3.15. Substation Overlap (2025) Unmitigated
- 3.17. Paving (2025) Unmitigated
- 3.19. Architectural Coating (2024) Unmitigated
- 3.21. Architectural Coating (2025) 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

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14174 Thousand Palms Construction without Mitigation
Construction Start Date	6/1/2024
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	10.0
Location	33.83358558681118, -116.4020496214669
County	Riverside-Salton Sea
City	Unincorporated
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5690
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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
Refrigerated Warehouse-No Rail	248	1000sqft	5.69	247,798	0.00	_	_	_

Unrefrigerated Warehouse-No Rail	991	1000sqft	22.8	991,194	718,010	_	_	_
Parking Lot	38.1	Acre	38.1	0.00	0.00	_		_
User Defined Linear	1.64	Mile	1.98	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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	17.1	64.8	124	153	0.29	5.22	19.9	25.1	4.83	6.51	11.3	_	43,283	43,283	1.24	2.87	70.1	44,238
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	15.6	66.3	91.4	144	0.25	3.04	25.5	28.5	2.82	6.47	9.29	_	49,230	49,230	1.59	3.51	3.15	50,320
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	4.74	14.7	30.2	44.0	0.08	1.16	6.63	7.80	1.08	1.90	2.98	_	13,190	13,190	0.41	0.88	12.0	13,474
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.86	2.69	5.51	8.03	0.01	0.21	1.21	1.42	0.20	0.35	0.54	_	2,184	2,184	0.07	0.15	1.99	2,231

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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	17.1	14.6	124	153	0.29	5.22	19.9	25.1	4.83	6.51	11.3	_	43,283	43,283	1.24	2.87	70.1	44,238
2025	7.64	64.8	27.8	108	0.07	0.90	12.0	12.9	0.83	2.84	3.67	_	20,167	20,167	0.71	0.89	52.5	20,503
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	15.6	66.3	91.4	144	0.25	3.04	25.5	28.5	2.82	6.47	9.29	_	49,230	49,230	1.59	3.51	3.15	50,320
2025	10.4	62.4	42.0	108	0.13	1.17	19.5	20.7	1.08	4.66	5.73	_	31,973	31,973	1.24	1.62	2.28	32,488
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	4.74	10.4	30.2	44.0	0.08	1.16	6.63	7.80	1.08	1.90	2.98	_	13,190	13,190	0.41	0.88	12.0	13,474
2025	2.04	14.7	8.04	24.6	0.02	0.24	3.68	3.92	0.22	0.87	1.09	_	6,151	6,151	0.23	0.29	7.12	6,250
Annual	_	_	_	_	<u> </u>	_	_		_	_	_	_	_	_	_	_	_	_
2024	0.86	1.90	5.51	8.03	0.01	0.21	1.21	1.42	0.20	0.35	0.54	_	2,184	2,184	0.07	0.15	1.99	2,231
2025	0.37	2.69	1.47	4.49	< 0.005	0.04	0.67	0.71	0.04	0.16	0.20	_	1,018	1,018	0.04	0.05	1.18	1,035

3. Construction Emissions Details

3.1. Transmission Line (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	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 Equipmen		0.72	5.32	6.11	0.02	0.23	<u> </u>	0.23	0.21	_	0.21	_	1,794	1,794	0.07	0.01	_	1,800
Dust From Material Movemen		_	-	-	_	_	0.00	0.00	-	0.00	0.00	_	_	_	_	_	_	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	-	_	-	-	_	_	-	-	_	_
Off-Road Equipmen		0.13	0.93	1.07	< 0.005	0.04	_	0.04	0.04	_	0.04	_	315	315	0.01	< 0.005	_	316
Dust From Material Movemen	_	_	-		_	_	0.00	0.00	-	0.00	0.00	_	_	_	_	_	_	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.17	0.20	< 0.005	0.01	_	0.01	0.01	_	0.01	-	52.1	52.1	< 0.005	< 0.005	-	52.3
Dust From Material Movemen	<u></u>	_			_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	-	_	_	_	-	-	-	-	-	_	_	_	_	_	_	-

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.04	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	_	94.8	94.8	< 0.005	< 0.005	0.01	96.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	17.8	17.8	< 0.005	< 0.005	0.03	18.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.94	2.94	< 0.005	< 0.005	< 0.005	2.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		4.49	42.5	35.3	0.05	2.25	_	2.25	2.07	_	2.07	_	5,529	5,529	0.22	0.04	_	5,548
Dust From Material Movemen	<u> </u>	_	_	_	_	_	5.66	5.66	_	2.69	2.69	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.74	6.99	5.80	0.01	0.37	_	0.37	0.34	_	0.34	_	909	909	0.04	0.01	_	912
Dust From Material Movement	_	_	-	_	_	_	0.93	0.93	_	0.44	0.44	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.13	1.28	1.06	< 0.005	0.07	_	0.07	0.06	-	0.06	-	150	150	0.01	< 0.005	_	151
Dust From Material Movement	_	_	_	_	_	_	0.17	0.17	_	0.08	0.08	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	-	-	_	_	_	_	_	_
Worker	0.11	0.10	0.10	1.81	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	266	266	0.01	0.01	0.99	269
Vendor	0.07	0.05	1.40	0.63	0.01	0.02	0.34	0.36	0.02	0.09	0.11	_	1,287	1,287	0.02	0.18	3.50	1,344
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	0.02	0.21	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	39.7	39.7	< 0.005	< 0.005	0.07	40.2
Vendor	0.01	0.01	0.24	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	212	212	< 0.005	0.03	0.25	221
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	_	6.57	6.57	< 0.005	< 0.005	0.01	6.66
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	35.0	35.0	< 0.005	< 0.005	0.04	36.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		3.94	37.6	31.4	0.06	1.77	_	1.77	1.63	_	1.63	_	6,715	6,715	0.27	0.05	_	6,738
Dust From Material Movement	_	_	_	_	_	_	2.69	2.69	_	0.98	0.98	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmen		3.94	37.6	31.4	0.06	1.77	_	1.77	1.63	_	1.63	_	6,715	6,715	0.27	0.05	_	6,738
Dust From Material Movemen	_	_	_	_	_	_	2.69	2.69	_	0.98	0.98	_	_	_	_	_	_	_

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	-	-	_	_	_	-	_	-	_	_	_	-	_	-	-	_	-	_
Off-Road Equipmer		0.97	9.26	7.73	0.02	0.44	-	0.44	0.40	_	0.40	-	1,656	1,656	0.07	0.01	-	1,661
Dust From Material Movemen		_	_	_	-	_	0.66	0.66	_	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.18	1.69	1.41	< 0.005	0.08	-	0.08	0.07	_	0.07	-	274	274	0.01	< 0.005	_	275
Dust From Material Movemen	<u> </u>	-	_		_	_	0.12	0.12	-	0.04	0.04	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	-	-	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_
Worker	0.12	0.11	0.11	2.07	0.00	0.00	0.26	0.26	0.00	0.06	0.06	_	304	304	0.01	0.01	1.13	308
Vendor	0.10	0.07	2.10	0.95	0.01	0.03	0.51	0.54	0.03	0.14	0.17	_	1,931	1,931	0.02	0.27	5.25	2,017
Hauling	0.30	0.20	11.0	2.48	0.07	0.19	2.54	2.73	0.19	0.65	0.84	_	9,757	9,757	0.09	1.53	20.8	10,237
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.08	0.12	1.18	0.00	0.00	0.26	0.26	0.00	0.06	0.06	_	258	258	0.01	0.01	0.03	261
Vendor	0.09	0.07	2.27	0.97	0.01	0.03	0.51	0.54	0.03	0.14	0.17	_	1,933	1,933	0.02	0.27	0.14	2,013

Hauling	0.28	0.18	11.8	2.54	0.07	0.19	2.54	2.73	0.19	0.65	0.84	_	9,766	9,766	0.09	1.54	0.54	10,226
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.03	0.36	0.00	0.00	0.06	0.06	0.00	0.02	0.02	_	68.1	68.1	< 0.005	< 0.005	0.12	69.0
Vendor	0.02	0.02	0.55	0.24	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	_	476	476	0.01	0.07	0.56	497
Hauling	0.07	0.05	2.85	0.62	0.02	0.05	0.62	0.67	0.05	0.16	0.21	_	2,407	2,407	0.02	0.38	2.21	2,522
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.3	11.3	< 0.005	< 0.005	0.02	11.4
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	78.9	78.9	< 0.005	0.01	0.09	82.2
Hauling	0.01	0.01	0.52	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	398	398	< 0.005	0.06	0.37	418

3.7. Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	со	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 Equipmen		1.30	12.2	14.2	0.03	0.54	_	0.54	0.49	_	0.49	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.23	2.19	2.56	< 0.005	0.10	_	0.10	0.09	_	0.09	_	474	474	0.02	< 0.005	_	475
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.40	0.47	< 0.005	0.02	_	0.02	0.02	_	0.02	_	78.4	78.4	< 0.005	< 0.005	_	78.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	2.63	2.15	3.17	30.7	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,717	6,717	0.33	0.26	0.76	6,803
Vendor	0.15	0.11	3.89	1.66	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,318	3,318	0.04	0.46	0.23	3,456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.50	0.45	0.53	6.87	0.00	0.00	1.22	1.22	0.00	0.29	0.29	_	1,293	1,293	0.06	0.05	2.29	1,311
Vendor	0.03	0.02	0.68	0.30	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	597	597	0.01	0.08	0.70	623
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.10	1.25	0.00	0.00	0.22	0.22	0.00	0.05	0.05	_	214	214	0.01	0.01	0.38	217
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	98.8	98.8	< 0.005	0.01	0.12	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

Ontona	· onatan	(15,44)	, ioi aan	y,, y.	ioi aiiiio	iai, aria	01100 (1	or aay ioi	adily, iv	17 9 1 101	armaaij							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.21	11.3	14.1	0.03	0.47	_	0.47	0.43	_	0.43	-	2,630	2,630	0.11	0.02	-	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmen		1.21	11.3	14.1	0.03	0.47	_	0.47	0.43	_	0.43	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	-	_	_	_	_	-	-	_	_	_	-	_	-	_	_	-	-
Off-Road Equipmen		0.29	2.68	3.35	0.01	0.11	_	0.11	0.10	_	0.10	-	623	623	0.03	0.01	-	625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	0.49	0.61	< 0.005	0.02	_	0.02	0.02	_	0.02	-	103	103	< 0.005	< 0.005	-	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	-	_	_	_	-	-	_	-	-	_	_	_	_	_	_	_
Worker	2.98	2.74	2.72	49.6	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	7,728	7,728	0.30	0.26	26.7	7,839
Vendor	0.17	0.12	3.44	1.53	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,260	3,260	0.04	0.44	8.98	3,400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_
Worker	2.32	2.05	2.94	28.2	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,575	6,575	0.32	0.26	0.69	6,661
Vendor	0.15	0.11	3.70	1.56	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,263	3,263	0.04	0.44	0.23	3,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_		_	_		_	_	_	_	_	_	_	_	_
Worker	0.57	0.51	0.64	8.36	0.00	0.00	1.60	1.60	0.00	0.37	0.37	_	1,664	1,664	0.07	0.06	2.73	1,686
Vendor	0.04	0.03	0.86	0.37	0.01	0.01	0.21	0.22	0.01	0.06	0.07	_	772	772	0.01	0.10	0.92	804
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.09	0.12	1.53	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	276	276	0.01	0.01	0.45	279
Vendor	0.01	0.01	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	128	128	< 0.005	0.02	0.15	133
Hauling	0.00	0.00	0.00	0.00	0.00	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. Substation Construction (2024) - Unmitigated

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Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		2.62	22.4	23.4	0.06	0.92	_	0.92	0.85	_	0.85	_	6,280	6,280	0.25	0.05	_	6,302
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

A																		
Average Daily	_	_	_			_			_		_	_	_	_	_	_		_
Off-Road Equipmen		0.31	2.64	2.76	0.01	0.11	_	0.11	0.10	_	0.10	_	740	740	0.03	0.01	_	742
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	0.48	0.50	< 0.005	0.02	_	0.02	0.02	_	0.02	_	122	122	< 0.005	< 0.005	_	123
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3.13	2.89	2.96	53.8	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	7,899	7,899	0.30	0.26	29.4	8,013
Vendor	0.17	0.13	3.61	1.63	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,315	3,315	0.04	0.46	9.01	3,462
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	_	_	_	_	_	_	_	<u> </u>	_	-	_	_	_	_	-	_	-	_
Worker	0.33	0.30	0.35	4.50	0.00	0.00	0.80	0.80	0.00	0.19	0.19	_	846	846	0.04	0.03	1.50	858
Vendor	0.02	0.01	0.45	0.19	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	_	391	391	< 0.005	0.05	0.46	407
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.82	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	140	140	0.01	0.01	0.25	142
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.7	64.7	< 0.005	0.01	0.08	67.5
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

3.13. Substation Overlap (2024) - Unmitigated

Location	TOG	ROG	NOx	со	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 Equipmen		1.32	10.2	9.18	0.03	0.38	_	0.38	0.35	_	0.35	_	3,650	3,650	0.15	0.03	_	3,663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.24	1.84	1.65	0.01	0.07	_	0.07	0.06	_	0.06	_	657	657	0.03	0.01	_	659
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.34	0.30	< 0.005	0.01	_	0.01	0.01	_	0.01	_	109	109	< 0.005	< 0.005	-	109
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	2.63	2.15	3.17	30.7	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,717	6,717	0.33	0.26	0.76	6,803
Vendor	0.15	0.11	3.89	1.66	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,318	3,318	0.04	0.46	0.23	3,456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.50	0.45	0.53	6.87	0.00	0.00	1.22	1.22	0.00	0.29	0.29	_	1,293	1,293	0.06	0.05	2.29	1,311
Vendor	0.03	0.02	0.68	0.30	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	597	597	0.01	0.08	0.70	623
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.10	1.25	0.00	0.00	0.22	0.22	0.00	0.05	0.05	_	214	214	0.01	0.01	0.38	217
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	98.8	98.8	< 0.005	0.01	0.12	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Substation Overlap (2025) - Unmitigated

	TOG	ROG	NOx	СО				PM10T				BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		1.27	9.13	9.04	0.03	0.34	_	0.34	0.32	_	0.32	_	3,654	3,654	0.15	0.03	_	3,667
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmer		0.15	1.05	1.04	< 0.005	0.04	_	0.04	0.04	_	0.04	_	422	422	0.02	< 0.005	_	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		0.03	0.19	0.19	< 0.005	0.01	_	0.01	0.01	_	0.01	_	69.9	69.9	< 0.005	< 0.005	_	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.32	2.05	2.94	28.2	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,575	6,575	0.32	0.26	0.69	6,661
Vendor	0.15	0.11	3.70	1.56	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,263	3,263	0.04	0.44	0.23	3,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.28	0.25	0.31	4.08	0.00	0.00	0.78	0.78	0.00	0.18	0.18	_	812	812	0.04	0.03	1.33	822
Vendor	0.02	0.01	0.42	0.18	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	_	377	377	< 0.005	0.05	0.45	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.06	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	134	134	0.01	< 0.005	0.22	136
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	62.3	62.3	< 0.005	0.01	0.07	64.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.80	7.45	9.98	0.01	0.35	_	0.35	0.32	_	0.32	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	4.56	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Off-Road Equipmen		0.05	0.47	0.63	< 0.005	0.02	_	0.02	0.02	_	0.02	_	95.2	95.2	< 0.005	< 0.005	_	95.6
Paving	_	0.29	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.09	0.11	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.8	15.8	< 0.005	< 0.005	_	15.8
Paving	_	0.05	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Worker	0.09	0.08	0.08	1.43	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	223	223	0.01	0.01	0.77	226

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.8	12.8	< 0.005	< 0.005	0.02	12.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2024) - Unmitigated

Location		ROG							PM2.5E			BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.18	1.21	1.53	< 0.005	0.04	_	0.04	0.04	_	0.04	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	-	_
Off-Road Equipmen		0.02	0.14	0.18	< 0.005	0.01	_	0.01	< 0.005	_	< 0.005	-	21.3	21.3	< 0.005	< 0.005	-	21.3
Architect ural Coatings	_	6.38	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.03	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	3.52	3.52	< 0.005	< 0.005	-	3.53
Architect ural Coatings	_	1.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.58	1.29	1.90	18.4	0.00	0.00	4.08	4.08	0.00	0.96	0.96	_	4,030	4,030	0.20	0.15	0.46	4,082
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	-	-	-	_	-	-	_	_	_	_	-	_	_	_	-	-	_
Worker	0.20	0.18	0.21	2.73	0.00	0.00	0.48	0.48	0.00	0.11	0.11	_	514	514	0.02	0.02	0.91	521
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.04	0.03	0.04	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	85.2	85.2	< 0.005	< 0.005	0.15	86.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Architectural Coating (2025) - Unmitigated

01110110		110 (1.07 0.01	,	J, J-			000 (.		<i>y</i> ,	· · · · · · · · · · · · · · · · · · ·	, ,							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_		_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	1.18	1.52	< 0.005	0.04	_	0.04	0.03	_	0.03	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.17	1.18	1.52	< 0.005	0.04	_	0.04	0.03	_	0.03	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.04	0.28	0.36	< 0.005	0.01	_	0.01	0.01	_	0.01	_	42.2	42.2	< 0.005	< 0.005	_	42.3
Architect ural Coatings	_	12.7	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.05	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	6.98	6.98	< 0.005	< 0.005	_	7.00
Architect ural Coatings	_	2.31	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.79	1.64	1.63	29.8	0.00	0.00	4.08	4.08	0.00	0.96	0.96	_	4,637	4,637	0.18	0.15	16.0	4,703
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	-	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	1.39	1.23	1.76	16.9	0.00	0.00	4.08	4.08	0.00	0.96	0.96	-	3,945	3,945	0.19	0.15	0.42	3,996
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.34	0.31	0.38	5.02	0.00	0.00	0.96	0.96	0.00	0.22	0.22	_	999	999	0.04	0.04	1.64	1,012
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.07	0.92	0.00	0.00	0.18	0.18	0.00	0.04	0.04	_	165	165	0.01	0.01	0.27	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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)

Vegetatio n	TOG	ROG		со	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	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	<u> </u>	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

								brady 101										
Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_		_	_	_		_	_	_	_	_	_	_	_	_	_		_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_		_	_	_		_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Sequest	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Transmission Line	Linear, Drainage, Utilities, & Sub-Grade	1/1/2025	3/31/2025	5.00	64.0	_
Site Preparation	Site Preparation	6/1/2024	8/23/2024	5.00	60.0	_
Grading	Grading	7/1/2024	11/1/2024	5.00	90.0	_
Building Construction	Building Construction	10/1/2024	5/01/2025	5.00	153	_
Substation Construction	Building Construction	8/1/2024	9/30/2024	5.00	43.0	_
Substation Overlap	Building Construction	10/1/2024	2/28/2025	5.00	109	_

Paving	Paving	4/1/2025	5/1/2025	5.00	23.0	_
Architectural Coating	Architectural Coating	11/1/2024	5/1/2025	5.00	130	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

Substation Construction	Tractors/Loaders/Backh	Diesel	Average	3.00	8.00	84.0	0.37
Substation Construction	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Substation Overlap	Cranes	Diesel	Average	1.00	8.00	367	0.29
Substation Overlap	Off-Highway Trucks	Diesel	Average	2.00	8.00	376	0.38
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	40.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	13.9	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	60.0	10.2	HHDT,MHDT
Grading	Hauling	140	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	520	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	103	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	_	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_
Architectural Coating	Worker	312	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	HHDT
Substation Construction	_	_	_	_
Substation Construction	Worker	520	18.5	LDA,LDT1,LDT2
Substation Construction	Vendor	103	10.2	HHDT,MHDT
Substation Construction	Hauling	0.00	20.0	HHDT
Substation Construction	Onsite truck	_	_	HHDT
Substation Overlap	_	_	_	_
Substation Overlap	Worker	520	18.5	LDA,LDT1,LDT2
Substation Overlap	Vendor	103	10.2	HHDT,MHDT
Substation Overlap	Hauling	0.00	20.0	HHDT
Substation Overlap	Onsite truck	_	_	HHDT
Transmission Line	_	_	_	_
Transmission Line	Worker	7.50	18.5	LDA,LDT1,LDT2
Transmission Line	Vendor	0.00	10.2	HHDT,MHDT
Transmission Line	Hauling	0.00	20.0	HHDT
Transmission Line	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	1,858,488	619,496	260,053

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Transmission Line	_	_	1.98	0.00	_
Site Preparation	_	_	210	0.00	_
Grading	101,140	0.00	360	0.00	_
Paving	0.00	0.00	0.00	0.00	40.1

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Refrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%

Parking Lot	38.1	100%
User Defined Linear	1.98	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	457	0.03	< 0.005
2025	0.00	457	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
regeration Earlie 555 Type	regeration con type		

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Diomass cover type	Initial 70103	i iidi 7000

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	23.3	annual days of extreme heat
Extreme Precipitation	0.40	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.09	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, 1.41 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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	88.7

6.81
53.7
45.4
34.0
0.00
4.18
87.4
_
0.00
22.1
4.94
0.00
84.7
_
43.6
73.5
8.69
_
59.3
47.6
55.6
61.6
64.5

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	
Economic	_
Above Poverty	15.42409855
Employed	6.480174516
Median HI	24.1498781
Education	_
Bachelor's or higher	29.56499423
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	_
Auto Access	39.18901578
Active commuting	18.54228153
Social	_
2-parent households	98.8836135
Voting	37.73899654
Neighborhood	_
Alcohol availability	70.39650969
Park access	14.37187219
Retail density	33.04247402
Supermarket access	15.79622738
Tree canopy	0.487617092
Housing	_
Homeownership	64.04465546
Housing habitability	62.59463621
Low-inc homeowner severe housing cost burden	10.07314256
Low-inc renter severe housing cost burden	86.00025664
Uncrowded housing	44.45014757
Health Outcomes	_

15.50109072
0.0
57.9
0.0
0.0
0.0
0.0
0.0
0.0
31.3
6.7
2.8
52.6
0.0
0.0
0.0
43.7
0.0
0.0
_
0.0
0.0
0.0
_
0.0
0.0
33.8

Elderly	19.6
English Speaking	66.9
Foreign-born	47.5
Outdoor Workers	11.8
Climate Change Adaptive Capacity	_
Impervious Surface Cover	70.2
Traffic Density	65.2
Traffic Access	23.0
Other Indices	_
Hardship	60.4
Other Decision Support	_
2016 Voting	51.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	41.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

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.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule based on input from the Project team.
Construction: Off-Road Equipment	Crawler tractors will be used in lieu of tractors/loaders/backhoes during site preparation and grading. All equipment will operate for 8 hours per day.
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. Haul truck distance based on data provided by the Project team.
Construction: Architectural Coatings	SCAQMD Rule 1113 limits

14174 Thousand Palms Construction with Mitigation 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. Transmission Line (2025) Unmitigated
 - 3.3. Site Preparation (2024) Unmitigated
 - 3.5. Grading (2024) Unmitigated
 - 3.7. Building Construction (2024) Unmitigated
 - 3.9. Building Construction (2025) Unmitigated
 - 3.11. Substation Construction (2024) Unmitigated

- 3.13. Substation Overlap (2024) Unmitigated
- 3.15. Substation Overlap (2025) Unmitigated
- 3.17. Paving (2025) Unmitigated
- 3.19. Architectural Coating (2024) Unmitigated
- 3.21. Architectural Coating (2025) 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

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	14174 Thousand Palms Construction with Mitigation
Construction Start Date	6/1/2024
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	10.0
Location	33.83358558681118, -116.4020496214669
County	Riverside-Salton Sea
City	Unincorporated
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5690
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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
Refrigerated Warehouse-No Rail	248	1000sqft	5.69	247,798	0.00	_	_	_

Unrefrigerated Warehouse-No Rail	991	1000sqft	22.8	991,194	718,010	_	_	_
Parking Lot	38.1	Acre	38.1	0.00	0.00	_	_	_
User Defined Linear	1.64	Mile	1.98	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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	6.25	63.2	75.3	163	0.29	0.73	19.9	20.7	0.72	6.51	7.23	_	43,283	43,283	1.24	2.87	70.1	44,238
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	9.22	61.2	69.9	159	0.25	0.69	25.5	26.1	0.68	6.47	7.15	_	49,230	49,230	1.59	3.51	3.15	50,320
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.29	14.3	20.3	47.3	0.08	0.19	6.63	6.83	0.19	1.90	2.09	_	13,190	13,190	0.41	0.88	12.0	13,474
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.42	2.60	3.70	8.64	0.01	0.04	1.21	1.25	0.03	0.35	0.38	_	2,184	2,184	0.07	0.15	1.99	2,231

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	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	6.25	5.80	75.3	163	0.29	0.73	19.9	20.7	0.72	6.51	7.23	_	43,283	43,283	1.24	2.87	70.1	44,238
2025	5.63	63.2	26.0	110	0.07	0.26	12.0	12.2	0.25	2.84	3.09	_	20,167	20,167	0.71	0.89	52.5	20,503
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	9.22	61.2	69.9	159	0.25	0.69	25.5	26.1	0.68	6.47	7.15	_	49,230	49,230	1.59	3.51	3.15	50,320
2025	7.39	60.1	40.6	122	0.13	0.36	19.5	19.9	0.35	4.66	5.00	_	31,973	31,973	1.24	1.62	2.28	32,488
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	2.29	8.47	20.3	47.3	0.08	0.19	6.63	6.83	0.19	1.90	2.09	_	13,190	13,190	0.41	0.88	12.0	13,474
2025	1.46	14.3	7.69	26.6	0.02	0.07	3.68	3.75	0.07	0.87	0.94	_	6,151	6,151	0.23	0.29	7.12	6,250
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.42	1.55	3.70	8.64	0.01	0.04	1.21	1.25	0.03	0.35	0.38	_	2,184	2,184	0.07	0.15	1.99	2,231
2025	0.27	2.60	1.40	4.86	< 0.005	0.01	0.67	0.68	0.01	0.16	0.17	_	1,018	1,018	0.04	0.05	1.18	1,035

3. Construction Emissions Details

3.1. Transmission Line (2025) - Unmitigated

Location	TOG	ROG	NOx	со	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		0.22	5.65	9.79	0.02	0.06	_	0.06	0.06	_	0.06	_	1,794	1,794	0.07	0.01	_	1,800
Dust From Material Movement	_	_	_	-	_	_	0.00	0.00	_	0.00	0.00	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.04	0.99	1.72	< 0.005	0.01	_	0.01	0.01	_	0.01	_	315	315	0.01	< 0.005	_	316
Dust From Material Movement	_	_	_	-	_	_	0.00	0.00	_	0.00	0.00	_	-	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.01	0.18	0.31	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	52.1	52.1	< 0.005	< 0.005	_	52.3
Dust From Material Movement	_	_	_	-	_	_	0.00	0.00	_	0.00	0.00	_	-	-	-	_	_	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.03	0.04	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	_	94.8	94.8	< 0.005	< 0.005	0.01	96.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	17.8	17.8	< 0.005	< 0.005	0.03	18.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.94	2.94	< 0.005	< 0.005	< 0.005	2.98
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.68	15.7	30.0	0.05	0.10	_	0.10	0.10	_	0.10	_	5,529	5,529	0.22	0.04	_	5,548
Dust From Material Movemen	_	_	_	_	_	_	5.66	5.66	_	2.69	2.69	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.11	2.58	4.92	0.01	0.02	_	0.02	0.02	_	0.02	_	909	909	0.04	0.01	_	912
Dust From Material Movement	_	_	-	_	_	_	0.93	0.93	_	0.44	0.44	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment		0.02	0.47	0.90	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	_	150	150	0.01	< 0.005	-	151
Dust From Material Movement	_	_	_	_	_	_	0.17	0.17	_	0.08	0.08	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	-	-	_	_	-	_	_	_
Worker	0.11	0.10	0.10	1.81	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	266	266	0.01	0.01	0.99	269
Vendor	0.07	0.05	1.40	0.63	0.01	0.02	0.34	0.36	0.02	0.09	0.11	_	1,287	1,287	0.02	0.18	3.50	1,344
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.02	0.01	0.02	0.21	0.00	0.00	0.04	0.04	0.00	0.01	0.01	_	39.7	39.7	< 0.005	< 0.005	0.07	40.2
Vendor	0.01	0.01	0.24	0.11	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	212	212	< 0.005	0.03	0.25	221
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	_	6.57	6.57	< 0.005	< 0.005	0.01	6.66
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	35.0	35.0	< 0.005	< 0.005	0.04	36.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.82	19.9	36.2	0.06	0.18	_	0.18	0.18	_	0.18	_	6,715	6,715	0.27	0.05	_	6,738
Dust From Material Movement	_	_	_	_	_	_	2.69	2.69	_	0.98	0.98	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmen		0.82	19.9	36.2	0.06	0.18	_	0.18	0.18	_	0.18	_	6,715	6,715	0.27	0.05	_	6,738
Dust From Material Movement	_	_	_	_	_	_	2.69	2.69	_	0.98	0.98	_	_	_	_	_	_	_

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	-	_	_	_	-	_	_	_	-	_	_	_	_	_	_
Off-Road Equipmen		0.20	4.91	8.92	0.02	0.05	-	0.05	0.04	-	0.04	-	1,656	1,656	0.07	0.01	-	1,661
Dust From Material Movemen		-	-		_	_	0.66	0.66	_	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.90	1.63	< 0.005	0.01	_	0.01	0.01	_	0.01	-	274	274	0.01	< 0.005	_	275
Dust From Material Movemen	_	-	_	-	_	_	0.12	0.12	_	0.04	0.04	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.12	0.11	0.11	2.07	0.00	0.00	0.26	0.26	0.00	0.06	0.06	_	304	304	0.01	0.01	1.13	308
Vendor	0.10	0.07	2.10	0.95	0.01	0.03	0.51	0.54	0.03	0.14	0.17	_	1,931	1,931	0.02	0.27	5.25	2,017
Hauling	0.30	0.20	11.0	2.48	0.07	0.19	2.54	2.73	0.19	0.65	0.84	_	9,757	9,757	0.09	1.53	20.8	10,237
Daily, Winter (Max)	_	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	0.10	0.08	0.12	1.18	0.00	0.00	0.26	0.26	0.00	0.06	0.06	_	258	258	0.01	0.01	0.03	261
Vendor	0.09	0.07	2.27	0.97	0.01	0.03	0.51	0.54	0.03	0.14	0.17	_	1,933	1,933	0.02	0.27	0.14	2,013

Hauling	0.28	0.18	11.8	2.54	0.07	0.19	2.54	2.73	0.19	0.65	0.84	_	9,766	9,766	0.09	1.54	0.54	10,226
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.03	0.36	0.00	0.00	0.06	0.06	0.00	0.02	0.02	_	68.1	68.1	< 0.005	< 0.005	0.12	69.0
Vendor	0.02	0.02	0.55	0.24	< 0.005	0.01	0.13	0.13	0.01	0.03	0.04	_	476	476	0.01	0.07	0.56	497
Hauling	0.07	0.05	2.85	0.62	0.02	0.05	0.62	0.67	0.05	0.16	0.21	_	2,407	2,407	0.02	0.38	2.21	2,522
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.3	11.3	< 0.005	< 0.005	0.02	11.4
Vendor	< 0.005	< 0.005	0.10	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	78.9	78.9	< 0.005	0.01	0.09	82.2
Hauling	0.01	0.01	0.52	0.11	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	_	398	398	< 0.005	0.06	0.37	418

3.7. Building Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	со	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 Equipmen		0.35	9.48	15.7	0.03	0.09	_	0.09	0.09	_	0.09	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.06	1.71	2.82	< 0.005	0.02	_	0.02	0.02	_	0.02	_	474	474	0.02	< 0.005	_	475
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.31	0.51	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	78.4	78.4	< 0.005	< 0.005	_	78.7
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.63	2.15	3.17	30.7	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,717	6,717	0.33	0.26	0.76	6,803
Vendor	0.15	0.11	3.89	1.66	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,318	3,318	0.04	0.46	0.23	3,456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.50	0.45	0.53	6.87	0.00	0.00	1.22	1.22	0.00	0.29	0.29	_	1,293	1,293	0.06	0.05	2.29	1,311
Vendor	0.03	0.02	0.68	0.30	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	597	597	0.01	0.08	0.70	623
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.10	1.25	0.00	0.00	0.22	0.22	0.00	0.05	0.05	_	214	214	0.01	0.01	0.38	217
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	98.8	98.8	< 0.005	0.01	0.12	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

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

Daily,	_												_					
Summer (Max)																		
Off-Road Equipmen		0.35	9.48	15.7	0.03	0.09	_	0.09	0.09	_	0.09	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmen		0.35	9.48	15.7	0.03	0.09	_	0.09	0.09	_	0.09	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	-	_	_	_	-	_	_	-	_	_	_
Off-Road Equipmen		0.08	2.25	3.71	0.01	0.02	_	0.02	0.02	_	0.02	-	623	623	0.03	0.01	_	625
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.41	0.68	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	103	103	< 0.005	< 0.005	_	103
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	2.98	2.74	2.72	49.6	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	7,728	7,728	0.30	0.26	26.7	7,839
Vendor	0.17	0.12	3.44	1.53	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,260	3,260	0.04	0.44	8.98	3,400
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.32	2.05	2.94	28.2	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,575	6,575	0.32	0.26	0.69	6,661
Vendor	0.15	0.11	3.70	1.56	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,263	3,263	0.04	0.44	0.23	3,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.57	0.51	0.64	8.36	0.00	0.00	1.60	1.60	0.00	0.37	0.37	_	1,664	1,664	0.07	0.06	2.73	1,686
Vendor	0.04	0.03	0.86	0.37	0.01	0.01	0.21	0.22	0.01	0.06	0.07	_	772	772	0.01	0.10	0.92	804
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.09	0.12	1.53	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	276	276	0.01	0.01	0.45	279
Vendor	0.01	0.01	0.16	0.07	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	128	128	< 0.005	0.02	0.15	133
Hauling	0.00	0.00	0.00	0.00	0.00	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. Substation Construction (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.76	18.4	33.7	0.06	0.16	_	0.16	0.16	_	0.16	_	6,280	6,280	0.25	0.05	_	6,302
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmen		0.09	2.17	3.97	0.01	0.02	_	0.02	0.02	_	0.02	_	740	740	0.03	0.01	_	742
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.40	0.72	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	122	122	< 0.005	< 0.005	-	123
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	3.13	2.89	2.96	53.8	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	7,899	7,899	0.30	0.26	29.4	8,013
Vendor	0.17	0.13	3.61	1.63	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,315	3,315	0.04	0.46	9.01	3,462
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.33	0.30	0.35	4.50	0.00	0.00	0.80	0.80	0.00	0.19	0.19	_	846	846	0.04	0.03	1.50	858
Vendor	0.02	0.01	0.45	0.19	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	_	391	391	< 0.005	0.05	0.46	407
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.82	0.00	0.00	0.15	0.15	0.00	0.03	0.03	_	140	140	0.01	0.01	0.25	142
Vendor	< 0.005	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	64.7	64.7	< 0.005	0.01	0.08	67.5
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

3.13. Substation Overlap (2024) - Unmitigated

Location	TOG	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 Equipmen		0.42	8.92	18.0	0.03	0.07	_	0.07	0.07	_	0.07	_	3,650	3,650	0.15	0.03	_	3,663
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	1.61	3.24	0.01	0.01	_	0.01	0.01	_	0.01	_	657	657	0.03	0.01	_	659
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.29	0.59	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	109	109	< 0.005	< 0.005	_	109
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_

Worker	2.63	2.15	3.17	30.7	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,717	6,717	0.33	0.26	0.76	6,803
Vendor	0.15	0.11	3.89	1.66	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,318	3,318	0.04	0.46	0.23	3,456
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_		_	_	_	_	_	_	_	_	_		_	_	_	_
Worker	0.50	0.45	0.53	6.87	0.00	0.00	1.22	1.22	0.00	0.29	0.29	_	1,293	1,293	0.06	0.05	2.29	1,311
Vendor	0.03	0.02	0.68	0.30	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	597	597	0.01	0.08	0.70	623
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.09	0.08	0.10	1.25	0.00	0.00	0.22	0.22	0.00	0.05	0.05	_	214	214	0.01	0.01	0.38	217
Vendor	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	98.8	98.8	< 0.005	0.01	0.12	103
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Substation Overlap (2025) - Unmitigated

				, ,														
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_		_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.42	8.92	18.0	0.03	0.07	_	0.07	0.07	_	0.07	_	3,654	3,654	0.15	0.03	_	3,667
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.05	1.03	2.08	< 0.005	0.01	_	0.01	0.01	_	0.01	_	422	422	0.02	< 0.005	_	423
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.19	0.38	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	69.9	69.9	< 0.005	< 0.005	_	70.1
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	2.32	2.05	2.94	28.2	0.00	0.00	6.80	6.80	0.00	1.59	1.59	_	6,575	6,575	0.32	0.26	0.69	6,661
Vendor	0.15	0.11	3.70	1.56	0.03	0.05	0.88	0.93	0.05	0.24	0.29	_	3,263	3,263	0.04	0.44	0.23	3,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	-	-	_	_	_	-	_	-	_	-	_	_	_
Worker	0.28	0.25	0.31	4.08	0.00	0.00	0.78	0.78	0.00	0.18	0.18	_	812	812	0.04	0.03	1.33	822
Vendor	0.02	0.01	0.42	0.18	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	_	377	377	< 0.005	0.05	0.45	392
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.05	0.05	0.06	0.74	0.00	0.00	0.14	0.14	0.00	0.03	0.03	_	134	134	0.01	< 0.005	0.22	136
Vendor	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	62.3	62.3	< 0.005	0.01	0.07	64.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Paving (2025) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.23	7.21	10.6	0.01	0.09	_	0.09	0.08	_	0.08	_	1,511	1,511	0.06	0.01	_	1,517
Paving	_	4.56	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Off-Road Equipmen		0.01	0.45	0.67	< 0.005	0.01	_	0.01	0.01	_	0.01	_	95.2	95.2	< 0.005	< 0.005	_	95.6
Paving	_	0.29	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.08	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	15.8	15.8	< 0.005	< 0.005	_	15.8
Paving	_	0.05	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Worker	0.09	0.08	0.08	1.43	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	223	223	0.01	0.01	0.77	226

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	12.8	12.8	< 0.005	< 0.005	0.02	12.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	_	2.11	2.11	< 0.005	< 0.005	< 0.005	2.14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Architectural Coating (2024) - Unmitigated

Location	TOG	ROG	NOx	СО		PM10E		PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	1.43	1.28	< 0.005	0.04	_	0.04	0.04	_	0.04	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	-	_	_	_	-	_	_	_	_	-	_	_	_	-	-	_
Off-Road Equipmen		< 0.005	0.17	0.15	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	21.3	21.3	< 0.005	< 0.005	-	21.3
Architect ural Coatings	_	6.38	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.03	0.03	< 0.005	< 0.005	-	< 0.005	< 0.005	_	< 0.005	-	3.52	3.52	< 0.005	< 0.005	-	3.53
Architect ural Coatings	_	1.16	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	1.58	1.29	1.90	18.4	0.00	0.00	4.08	4.08	0.00	0.96	0.96	_	4,030	4,030	0.20	0.15	0.46	4,082
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	-	-	_	_	-	-	_	-	_	-	_	-	_	-	-	_
Worker	0.20	0.18	0.21	2.73	0.00	0.00	0.48	0.48	0.00	0.11	0.11	_	514	514	0.02	0.02	0.91	521
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	<u> </u>	_
Worker	0.04	0.03	0.04	0.50	0.00	0.00	0.09	0.09	0.00	0.02	0.02	_	85.2	85.2	< 0.005	< 0.005	0.15	86.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Architectural Coating (2025) - Unmitigated

O		1.0 ()	,	J, J-					. ,	, ,	, ,							
Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	1.43	1.28	< 0.005	0.04	_	0.04	0.04	_	0.04	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	1.43	1.28	< 0.005	0.04	_	0.04	0.04	_	0.04	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	53.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipmen		0.01	0.34	0.30	< 0.005	0.01	_	0.01	0.01	_	0.01	_	42.2	42.2	< 0.005	< 0.005	_	42.3
Architect ural Coatings	_	12.7	_	-	_	_	_	_	_	_	-	_	-	-	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		< 0.005	0.06	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	-	6.98	6.98	< 0.005	< 0.005	-	7.00
Architect ural Coatings	_	2.31	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	1.79	1.64	1.63	29.8	0.00	0.00	4.08	4.08	0.00	0.96	0.96	_	4,637	4,637	0.18	0.15	16.0	4,703
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Worker	1.39	1.23	1.76	16.9	0.00	0.00	4.08	4.08	0.00	0.96	0.96	_	3,945	3,945	0.19	0.15	0.42	3,996
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.34	0.31	0.38	5.02	0.00	0.00	0.96	0.96	0.00	0.22	0.22	_	999	999	0.04	0.04	1.64	1,012
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.06	0.07	0.92	0.00	0.00	0.18	0.18	0.00	0.04	0.04	_	165	165	0.01	0.01	0.27	168
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	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)

Vegetatio n	TOG	ROG		со	SO2	PM10E			PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_		_	_	_	<u> </u>	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Sequest	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_		_	_		_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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
Transmission Line	Linear, Drainage, Utilities, & Sub-Grade	1/1/2025	3/31/2025	5.00	64.0	_
Site Preparation	Site Preparation	6/1/2024	8/23/2024	5.00	60.0	_
Grading	Grading	7/1/2024	11/1/2024	5.00	90.0	_
Building Construction	Building Construction	10/1/2024	5/01/2025	5.00	153	_
Substation Construction	Building Construction	8/1/2024	9/30/2024	5.00	43.0	_
Substation Overlap	Building Construction	10/1/2024	2/28/2025	5.00	109	_

Paving	Paving	4/1/2025	5/1/2025	5.00	23.0	_
Architectural Coating	Architectural Coating	11/1/2024	5/1/2025	5.00	130	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

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

Substation Construction	Tractors/Loaders/Backh	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Substation Construction	Off-Highway Trucks	Diesel	Tier 4 Interim	2.00	8.00	376	0.38
Substation Overlap	Cranes	Diesel	Tier 4 Interim	1.00	8.00	367	0.29
Substation Overlap	Off-Highway Trucks	Diesel	Tier 4 Interim	2.00	8.00	376	0.38
Paving	Pavers	Diesel	Tier 4 Interim	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Interim	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Interim	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 4 Interim	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	40.0	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	13.9	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	60.0	10.2	HHDT,MHDT
Grading	Hauling	140	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	520	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	103	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	_	_	HHDT
Paving	_	_	_	_
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	_	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	_	_	HHDT
Architectural Coating	_	_	_	_
Architectural Coating	Worker	312	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	_	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	_	_	HHDT
Substation Construction	_	_	_	_
Substation Construction	Worker	520	18.5	LDA,LDT1,LDT2
Substation Construction	Vendor	103	10.2	HHDT,MHDT
Substation Construction	Hauling	0.00	20.0	HHDT
Substation Construction	Onsite truck	_	_	HHDT
Substation Overlap	_	_	_	_
Substation Overlap	Worker	520	18.5	LDA,LDT1,LDT2
Substation Overlap	Vendor	103	10.2	HHDT,MHDT
Substation Overlap	Hauling	0.00	20.0	HHDT
Substation Overlap	Onsite truck	_	_	HHDT
Transmission Line	_	_	_	_
Transmission Line	Worker	7.50	18.5	LDA,LDT1,LDT2
Transmission Line	Vendor	0.00	10.2	HHDT,MHDT
Transmission Line	Hauling	0.00	20.0	HHDT
Transmission Line	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	1,858,488	619,496	260,053

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Transmission Line	_	_	1.98	0.00	_
Site Preparation	_	_	210	0.00	_
Grading	101,140	0.00	360	0.00	_
Paving	0.00	0.00	0.00	0.00	40.1

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Refrigerated Warehouse-No Rail	0.00	0%
Unrefrigerated Warehouse-No Rail	0.00	0%

Parking Lot	38.1	100%
User Defined Linear	1.98	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	457	0.03	< 0.005
2025	0.00	457	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
	regeration con type		

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
Biomaco coror iyo	11111at 7 to 100	Tillal / toros

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	23.3	annual days of extreme heat
Extreme Precipitation	0.40	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.09	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, 1.41 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	1	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	0	0	0	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	88.7

6.81
53.7
45.4
34.0
0.00
4.18
87.4
_
0.00
22.1
4.94
0.00
84.7
_
43.6
73.5
8.69
_
59.3
47.6
55.6
61.6
64.5

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	15.42409855
Employed	6.480174516
Median HI	24.1498781
Education	_
Bachelor's or higher	29.56499423
High school enrollment	100
Preschool enrollment	1.873476197
Transportation	_
Auto Access	39.18901578
Active commuting	18.54228153
Social	_
2-parent households	98.8836135
Voting	37.73899654
Neighborhood	_
Alcohol availability	70.39650969
Park access	14.37187219
Retail density	33.04247402
Supermarket access	15.79622738
Tree canopy	0.487617092
Housing	_
Homeownership	64.04465546
Housing habitability	62.59463621
Low-inc homeowner severe housing cost burden	10.07314256
Low-inc renter severe housing cost burden	86.00025664
Uncrowded housing	44.45014757
Health Outcomes	_

Asthma ER Admissions 57.9 High Blood Pressure 0.0 Cancer (excluding skin) 0.0 Asthma 0.0 Coronary Heart Disease 0.0 Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 3.3 Cognitively Disabled 6.7 Physically Disabled 2.6 Heart Attack ER Admissions 5.6 Merital Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 3.7 Prefestrian Injuries 3.7 Prefestrian Injuries 0.0 Stroke 0.0 Bingo Dinking 0.0 Current Skidser Disease 0.0 Current Richard Factorius 0.0 Stroke 0.0 Bingo Dinking 0.0 Current Smoker 0.0 Current Smoker 0.0 Current Smoker 0.0 Current Smoker 0.0	Insured adults	15.50109072
Fligh Blood Pressure 0.0 Cancer (excluding skin) 0.0 Asthma 0.0 Coronary Heart Disease 0.0 Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Physically Disabled 2.8 Heart Attack ER Admissions 5.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 4.3.7 Prylscall Health Not Good 0.0 Stroke 0.0 Prylscal Health Not Good 0.0 Stroke 0.0 Prylscal Health Not Good 0.0 Stroke 0.0 Stroke 0.0 Health Risk Behaviors 0.0 Binge Drinking 0.0 Outer Inne for Physical Activity 0.0 Current Snoker 0.0 Cultimate Change Exposures 0.0 Cultimate Change Exposu	Arthritis	0.0
Cancer (excluding skin) 0.0 Asthma 0.0 Coronary Heart Disease 0.0 Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Podestrian Injuries 4.7 Podestrian Injuries 4.7 Polysical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors 0.0 Binge Drinking 0.0 Current Smoker 0.0 Current Smoker 0.0 Current Smoker 0.0 Clinate Change Exposures 0.0 Wilding Risk 0.0 Stronger Line of Physical Activity 0.0 Clinate Change Exposures — Wilding Risk 0.0	Asthma ER Admissions	57.9
Astinia 0.0 Coronary Heart Disease 0.0 Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 3.3 Cognitively Disabled 6.7 Hysically Disabled 8.8 Heart Attack ER Admissions 5.26 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 4.3.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors 0.0 Health Risk Behaviors 0.0 Binge Drinking 0.0 Notesiar Time for Physical Activity 0.0 Notesiar Time for Physical Activity 0.0 Climate Change Exposures — Wilding Risk 0.0 St Rundation Area 0.0	High Blood Pressure	0.0
Coronary Heart Disease 0.0 Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Physically Disabled 2.8 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Prysical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors 0.0 Bringe Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures 0.0 Wildfire Risk 0.0 Stroke 0.0 No Leisure Time for Physical Activity 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures 0.0 Will fine Risk 0.0 Stroke 0.0 On Stroke 0.0 On Stroke 0.0 On Stro	Cancer (excluding skin)	0.0
Chronic Obstructive Pulmonary Disease 0.0 Diagnosed Diabetes 0.0 Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Physically Disabled 2.8 Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors — Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 Str Inundation Area 0.0	Asthma	0.0
Diagnosed Diabetes 0.0 Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Physically Disabled 2.8 Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Storke 0.0 Health Risk Behaviors - Health Risk Behaviors - Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures - Wildfire Risk 0.0 St. Inundation Area 0.0	Coronary Heart Disease	0.0
Life Expectancy at Birth 31.3 Cognitively Disabled 6.7 Physically Disabled 2.8 Heart Attack ER Admissions 5.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 Str Inundation Area 0.0	Chronic Obstructive Pulmonary Disease	0.0
Cognitively Disabled 6.7 Physically Disabled 2.8 Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 Stel Inundation Area 0.0	Diagnosed Diabetes	0.0
Physically Disabled 2.8 Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 Nc Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 StR Inundation Area 0.0	Life Expectancy at Birth	31.3
Heart Attack ER Admissions 52.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Vildfire Risk 0.0 St Inundation Area 0.0	Cognitively Disabled	6.7
Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0	Physically Disabled	2.8
Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0	Heart Attack ER Admissions	52.6
Obesity 0.0 Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0	Mental Health Not Good	0.0
Pedestrian Injuries 43.7 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0	Chronic Kidney Disease	0.0
Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors - Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures - Wildfire Risk 0.0 SLR Inundation Area 0.0	Obesity	0.0
Stroke0.0Health Risk Behaviors—Binge Drinking0.0Current Smoker0.0No Leisure Time for Physical Activity0.0Climate Change Exposures—Wildfire Risk0.0SLR Inundation Area0.0	Pedestrian Injuries	43.7
Health Risk Behaviors Binge Drinking Current Smoker No Leisure Time for Physical Activity Climate Change Exposures Wildfire Risk SLR Inundation Area	Physical Health Not Good	0.0
Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0	Stroke	0.0
Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0	Health Risk Behaviors	_
No Leisure Time for Physical Activity Climate Change Exposures Wildfire Risk SLR Inundation Area 0.0 0.0 0.0 0.0	Binge Drinking	0.0
Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0	Current Smoker	0.0
Wildfire Risk 0.0 SLR Inundation Area 0.0	No Leisure Time for Physical Activity	0.0
SLR Inundation Area 0.0	Climate Change Exposures	_
	Wildfire Risk	0.0
	SLR Inundation Area	0.0
Children 33.8	Children	33.8

Elderly	19.6
English Speaking	66.9
Foreign-born	47.5
Outdoor Workers	11.8
Climate Change Adaptive Capacity	_
Impervious Surface Cover	70.2
Traffic Density	65.2
Traffic Access	23.0
Other Indices	
Hardship	60.4
Other Decision Support	_
2016 Voting	51.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract		
CalEnviroScreen 4.0 Score for Project Location (a)	41.0		
Healthy Places Index Score for Project Location (b)	16.0		
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No		
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes		
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No		

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

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.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Construction schedule based on input from the Project team.
Construction: Off-Road Equipment	Crawler tractors will be used in lieu of tractors/loaders/backhoes during site preparation and grading. All equipment will operate for 8 hours per day.
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. Haul truck distance based on data provided by the Project team.
Construction: Architectural Coatings	SCAQMD Rule 1113 limits

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APPENDIX 4.2:

CALEEMOD PROJECT OPERATIONAL EMISSIONS MODEL OUTPUTS



14174 Thousand Palms Ops 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	14174 Thousand Palms Ops
Operational Year	2025
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	3.30
Precipitation (days)	10.0
Location	33.833382637667754, -116.40211615660678
County	Riverside-Salton Sea
City	Unincorporated
Air District	South Coast AQMD
Air Basin	Salton Sea
TAZ	5690
EDFZ	19
Electric Utility	Imperial Irrigation District
Gas Utility	Southern California Gas
App Version	2022.1.1.18

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
Refrigerated Warehouse-No Rail	248	1000sqft	5.69	247,798	0.00	_	_	_

Unrefrigerated Warehouse-No Rail	991	1000sqft	22.8	991,194	718,010	_	_	_
User Defined Industrial	1,239	User Defined Unit	0.00	0.00	0.00	_	_	_
Parking Lot	38.1	Acre	38.1	0.00	0.00	_	_	_

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	24.1	51.1	148	211	1.67	3.39	68.4	71.8	3.22	17.9	21.2	1,177	181,651	182,827	122	23.8	770	193,743
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	13.0	40.8	159	112	1.63	3.29	68.4	71.7	3.15	17.9	21.1	1,177	177,916	179,093	122	23.9	266	189,524
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	16.5	44.1	146	144	1.56	3.06	64.6	67.6	2.92	16.9	19.9	1,177	170,454	171,631	122	22.8	465	181,922
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.01	8.05	26.7	26.2	0.29	0.56	11.8	12.3	0.53	3.09	3.63	195	28,221	28,415	20.1	3.77	77.0	30,119

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	-	-	_	_	_
Mobile	13.4	11.4	145	154	1.66	3.15	68.4	71.6	3.01	17.9	21.0	_	174,843	174,843	1.68	22.4	517	182,073
Area	9.58	38.8	0.45	53.9	< 0.005	0.10	_	0.10	0.07	_	0.07	_	222	222	0.01	< 0.005	_	222
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	5,228	5,228	0.77	0.09	_	5,275
Water	_	_	_	_	_	_	_	_	_	_	_	549	855	1,404	56.4	1.35	_	3,218
Waste	_	_	_	_	_	_	_	_	_	_	_	628	0.00	628	62.7	0.00	_	2,196
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Stationar y	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	24.1	51.1	148	211	1.67	3.39	68.4	71.8	3.22	17.9	21.2	1,177	181,651	182,827	122	23.8	770	193,743
Daily, Winter (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Mobile	11.9	9.86	156	109	1.63	3.15	68.4	71.6	3.01	17.9	21.0	_	171,330	171,330	1.70	22.5	13.4	178,077
Area	_	29.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	5,228	5,228	0.77	0.09	_	5,275
Water	_	_	_	_	_	_	_	_	_	_	_	549	855	1,404	56.4	1.35	_	3,218
Waste	_	_	_	_	_	_	_	_	_	_	_	628	0.00	628	62.7	0.00	_	2,196
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Stationar y	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Total	13.0	40.8	159	112	1.63	3.29	68.4	71.7	3.15	17.9	21.1	1,177	177,916	179,093	122	23.9	266	189,524
Average Daily	_	-	_	-	_	-	_	_	_	_	_	_	_	_	_	-	-	_
Mobile	11.6	9.70	146	117	1.56	2.99	64.6	67.6	2.86	16.9	19.8	_	164,193	164,193	1.59	21.3	212	170,802
Area	4.72	34.3	0.22	26.6	< 0.005	0.05	_	0.05	0.04	_	0.04	_	109	109	< 0.005	< 0.005	_	110

Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	5,228	5,228	0.77	0.09	_	5,275
Water	_	_	_	_	_	_	_	_	_	_	_	549	855	1,404	56.4	1.35	_	3,218
Waste	_	_	_	_	_	_	_	_	_	_	_	628	0.00	628	62.7	0.00	_	2,196
Refrig.	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Stationar y	0.15	0.13	0.38	0.34	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	0.00	69.0	69.0	< 0.005	< 0.005	0.00	69.2
Total	16.5	44.1	146	144	1.56	3.06	64.6	67.6	2.92	16.9	19.9	1,177	170,454	171,631	122	22.8	465	181,922
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
Mobile	2.12	1.77	26.6	21.3	0.28	0.55	11.8	12.3	0.52	3.09	3.62	_	27,184	27,184	0.26	3.53	35.2	28,278
Area	0.86	6.26	0.04	4.85	< 0.005	0.01	_	0.01	0.01	_	0.01	_	18.1	18.1	< 0.005	< 0.005	_	18.2
Energy	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	865	865	0.13	0.02	_	873
Water	_	_	_	_	_	_	_	_	_	_	_	90.9	142	232	9.34	0.22	_	533
Waste	_	_	_	_	_	_	_	_	_	_	_	104	0.00	104	10.4	0.00	_	364
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	41.8	41.8
Stationar y	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5
Total	3.01	8.05	26.7	26.2	0.29	0.56	11.8	12.3	0.53	3.09	3.63	195	28,221	28,415	20.1	3.77	77.0	30,119

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Refrigera Warehouse Rail		1.40	0.94	20.2	0.04	0.02	3.68	3.70	0.01	0.93	0.94	_	4,087	4,087	0.12	0.09	13.2	4,131
Unrefrige rated Warehou se-No Rail	7.81	7.15	4.79	103	0.21	0.08	18.8	18.9	0.07	4.74	4.81	_	20,866	20,866	0.59	0.47	67.2	21,088
User Defined Industrial	4.09	2.82	139	31.2	1.42	3.05	45.9	49.0	2.92	12.3	15.2	-	149,889	149,889	0.97	21.8	437	156,855
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	13.4	11.4	145	154	1.66	3.15	68.4	71.6	3.01	17.9	21.0	_	174,843	174,843	1.68	22.4	517	182,073
Daily, Winter (Max)	_	_	_	_	_	-	-	_	_	_	_	-	_	_	-	_	_	_
Refrigera ted Warehou se-No Rail	1.29	1.17	1.04	12.9	0.03	0.02	3.68	3.70	0.01	0.93	0.94	_	3,508	3,508	0.12	0.10	0.34	3,541
Unrefrige rated Warehou se-No Rail	6.61	5.97	5.31	65.7	0.18	0.08	18.8	18.9	0.07	4.74	4.81	_	17,909	17,909	0.62	0.50	1.74	18,075
User Defined Industrial	3.99	2.72	150	30.8	1.42	3.05	45.9	49.0	2.92	12.3	15.2	_	149,913	149,913	0.97	21.9	11.3	156,461
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	11.9	9.86	156	109	1.63	3.15	68.4	71.6	3.01	17.9	21.0	_	171,330	171,330	1.70	22.5	13.4	178,077
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Refrigera ted Warehou Rail	0.22	0.20	0.15	2.41	0.01	< 0.005	0.58	0.59	< 0.005	0.15	0.15	_	540	540	0.02	0.01	0.82	546
Unrefrige rated Warehou se-No Rail	1.21	1.09	0.87	13.5	0.03	0.01	3.27	3.28	0.01	0.82	0.84	_	3,026	3,026	0.09	0.08	4.60	3,056
User Defined Industrial	0.70	0.48	25.6	5.40	0.25	0.53	7.94	8.47	0.51	2.12	2.63	_	23,618	23,618	0.15	3.44	29.7	24,677
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.12	1.77	26.6	21.3	0.28	0.55	11.8	12.3	0.52	3.09	3.62	_	27,184	27,184	0.26	3.53	35.2	28,278

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,369	1,369	0.20	0.02	_	1,382
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	2,876	2,876	0.43	0.05	_	2,902

User	_												0.00	0.00	0.00	0.00	_	0.00
Defined Industrial	_		_	_	_		_	_		_	_		0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	-	_	_	_	982	982	0.15	0.02	_	991
Total	_	_	_	_	_	_	_	_	_	_	_	_	5,228	5,228	0.77	0.09	_	5,275
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	1,369	1,369	0.20	0.02	_	1,382
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	2,876	2,876	0.43	0.05	_	2,902
User Defined Industrial	_	_	_	-		_	-	-	_	_	_	-	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	982	982	0.15	0.02	_	991
Total	_	_	_	_	_	_	_	_	_	_	_	_	5,228	5,228	0.77	0.09	_	5,275
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	-	_	_	227	227	0.03	< 0.005	-	229
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	476	476	0.07	0.01	_	480

User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	163	163	0.02	< 0.005	_	164
Total	_	_	_	_	_	_	_	_	_	_	_	_	865	865	0.13	0.02	_	873

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-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
Unrefrige rated Warehou se-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
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Refrigera ted Warehou	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Rail Unrefrige rated Warehou se-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
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-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
Unrefrige rated Warehou se-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
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	-	0.00
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

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	26.6	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	3.27	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	9.58	8.84	0.45	53.9	< 0.005	0.10	_	0.10	0.07	_	0.07	_	222	222	0.01	< 0.005	_	222
Total	9.58	38.8	0.45	53.9	< 0.005	0.10	_	0.10	0.07	_	0.07	_	222	222	0.01	< 0.005	_	222
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	26.6	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	3.27	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	29.9	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	4.86	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.60	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Landsca Equipmer	0.86 nt	0.80	0.04	4.85	< 0.005	0.01	_	0.01	0.01	_	0.01	_	18.1	18.1	< 0.005	< 0.005	_	18.2
Total	0.86	6.26	0.04	4.85	< 0.005	0.01	_	0.01	0.01	_	0.01	_	18.1	18.1	< 0.005	< 0.005	_	18.2

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail		_	_	-	_	_	_	_	_	_	_	110	166	276	11.3	0.27	-	638
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	439	689	1,129	45.1	1.08	_	2,580
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	-	-	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	549	855	1,404	56.4	1.35	_	3,218
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Refrigera ted Warehou se-No	_	_		_	_		_	_	_	_	_	110	166	276	11.3	0.27	_	638
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	439	689	1,129	45.1	1.08	_	2,580
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot		_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	<u> </u>	_	_	_	_	_	_	_	549	855	1,404	56.4	1.35	_	3,218
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	18.2	27.4	45.6	1.87	0.04	_	106
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	72.7	114	187	7.47	0.18	_	427
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot		_	_	_	_	_	_			_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	90.9	142	232	9.34	0.22	_	533

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T		PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	126	0.00	126	12.5	0.00	_	439
Unrefrige rated Warehou se-No Rail	_		_			_	_	_	_	_	_	502	0.00	502	50.2	0.00	_	1,757
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	628	0.00	628	62.7	0.00	_	2,196
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_		_				_	_	_	_	_	126	0.00	126	12.5	0.00	_	439
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	502	0.00	502	50.2	0.00	_	1,757

User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	628	0.00	628	62.7	0.00	_	2,196
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	20.8	0.00	20.8	2.08	0.00	_	72.7
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	83.1	0.00	83.1	8.31	0.00	_	291
User Defined Industrial	_	_	_	_	_	_	_	_	_	-	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	104	0.00	104	10.4	0.00	_	364

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Refrigera ted	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	253	253
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	41.8	41.8
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	41.8	41.8

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	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	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipme nt Type	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	0.00
undefine d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	505
Total	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Fire Pump	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	0.00
undefine d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	505
Total	1.08	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	0.00	504	504	0.02	< 0.005	0.00	505
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>
Fire Pump	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	0.00
undefine d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	11.5

Total	0.03	0.02	0.07	0.06	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	0.00	11.4	11.4	< 0.005	< 0.005	0.00	11.5

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)

Equipme nt Type		ROG		со	SO2	PM10E		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

Vegetatio n	TOG	ROG	NOx	со	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			СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total		_	<u> </u>	_			_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	<u> </u>	_	_	_	_	_	<u> </u>	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Sequest	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequest ered	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Remove d	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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
Refrigerated Warehouse-No Rail	340	193	185	108,368	5,304	3,015	2,888	1,690,534
Unrefrigerated Warehouse-No Rail	1,736	1,489	1,476	607,077	27,075	23,225	23,024	9,470,395
User Defined Industrial	564	471	466	195,816	52,315	43,692	43,232	18,171,770
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,858,488	619,496	99,578

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	2,243,230	223	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	4,711,274	223	0.0330	0.0040	0.00
User Defined Industrial	0.00	223	0.0330	0.0040	0.00
Parking Lot	1,609,230	223	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)
Refrigerated Warehouse-No Rail	57,303,288	0.00
Unrefrigerated Warehouse-No Rail	229,213,613	13,473,898
User Defined Industrial	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	233	_
Unrefrigerated Warehouse-No Rail	932	_
User Defined Industrial	0.00	_

Parking Lot 0.00	_
------------------	---

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Refrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Equipinionic Type	i dei Type	Lingino rici	radificer per bay	riodis i di Day	1 lolocpowel	Load I doloi

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
Fire Pump	Diesel	1.00	1.00	50.0	300	0.73

5.16.2. Process Boilers

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

Equipment Type	Fuel Type
=qaipmont Typo	1 401 1) 10

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	23.3	annual days of extreme heat
Extreme Precipitation	0.40	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.09	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

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

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

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

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

6.3. Adjusted Climate Risk Scores

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

Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	1	1	1	2
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	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 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	88.7
AQ-PM	6.81
AQ-DPM	53.7
Drinking Water	45.4
Lead Risk Housing	34.0
Pesticides	0.00
Toxic Releases	4.18
Traffic	87.4
Effect Indicators	_

CleanUp Sites	0.00
Groundwater	22.1
Haz Waste Facilities/Generators	4.94
Impaired Water Bodies	0.00
Solid Waste	84.7
Sensitive Population	_
Asthma	43.6
Cardio-vascular	73.5
Low Birth Weights	8.69
Socioeconomic Factor Indicators	_
Education	59.3
Housing	47.6
Linguistic	55.6
Poverty	61.6
Unemployment	64.5

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	15.42409855
Employed	6.480174516
Median HI	24.1498781
Education	_
Bachelor's or higher	29.56499423
High school enrollment	100
Preschool enrollment	1.873476197

Transportation	_
Auto Access	39.18901578
Active commuting	18.54228153
Social	
2-parent households	98.8836135
Voting	37.73899654
Neighborhood	
Alcohol availability	70.39650969
Park access	14.37187219
Retail density	33.04247402
Supermarket access	15.79622738
Tree canopy	0.487617092
Housing	_
Homeownership	64.04465546
Housing habitability	62.59463621
Low-inc homeowner severe housing cost burden	10.07314256
Low-inc renter severe housing cost burden	86.00025664
Uncrowded housing	44.45014757
Health Outcomes	_
Insured adults	15.50109072
Arthritis	0.0
Asthma ER Admissions	57.9
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0

Diagnosed Diabetes	0.0
Life Expectancy at Birth	31.3
Cognitively Disabled	6.7
Physically Disabled	2.8
Heart Attack ER Admissions	52.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	43.7
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	33.8
Elderly	19.6
English Speaking	66.9
Foreign-born	47.5
Outdoor Workers	11.8
Climate Change Adaptive Capacity	_
Impervious Surface Cover	70.2
Traffic Density	65.2
Traffic Access	23.0

Other Indices	_
Hardship	60.4
Other Decision Support	_
2016 Voting	51.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	41.0
Healthy Places Index Score for Project Location (b)	16.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip rate and trip length based on Project traffic and VMT analysis.
	Fleet mix adjusted in order to separate passenger vehicles and heavy duty trucks using the User Defined Industrial land use.

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.

Operations: Energy Use	Project will not use natural gas. Electricity usage estimates provided by Project team and assume 20% of Project electrical demand will be met by solar.						
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater.						

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APPENDIX 4.3:

EMFAC2021



Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area Region: Riverside (SS) Calendar Year: 2024 Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar \eh	icle Categc	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SS)	2024	HHDT	Aggregate	Aggregate	Gasoline	1.694970735	323.4783748	0.086446128	86.44612819	222609.0511	323.4783748	1378732.637	6.19	HHDT
Riverside (SS)	2024	HHDT	Aggregate	Aggregate	Diesel	7165.670505	1364722.681	220.7753998	220775.3998		1364722.681			
Riverside (SS)	2024	HHDT	Aggregate	Aggregate	Electricity	19.52575568	2989.108891	0	0		2989.108891			
Riverside (SS)	2024	HHDT	Aggregate	Aggregate	Natural Gas	133.9314321	10697.36825	1.747205086	1747.205086		10697.36825			
Riverside (SS)	2024	LDA	Aggregate	Aggregate	Gasoline	129411.5712	4345619.721	150.9355556	150935.5556	153659.1337	4345619.721	4786244.636	31.15	LDA
Riverside (SS)	2024	LDA	Aggregate	Aggregate	Diesel	376.3624609	9902.273882	0.229115808	229.1158082		9902.273882			
Riverside (SS)	2024	LDA	Aggregate	Aggregate	Electricity	6001.099881	279235.0425	0	0		279235.0425			
Riverside (SS)	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	3735.708861	151487.5992	2.494462287	2494.462287		151487.5992			
Riverside (SS)	2024	LDT1	Aggregate	Aggregate	Gasoline	12678.72514	449801.1364	19.07600777	19076.00777	19094.25845	449801.1364	451604.7505	23.65	LDT1
Riverside (SS)	2024	LDT1	Aggregate	Aggregate	Diesel	6.043919794	141.5572296	0.005673758	5.673757581		141.5572296			
Riverside (SS)	2024	LDT1	Aggregate	Aggregate	Electricity	17.11596488	831.2049649	0	0		831.2049649			
Riverside (SS)	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	18.39559274	830.8518891	0.012576921	12.57692107		830.8518891			
Riverside (SS)	2024	LDT2	Aggregate	Aggregate	Gasoline	65701.08074	2572111.481	109.6138728	109613.8728	110305.51	2572111.481	2622106.694	23.77	LDT2
Riverside (SS)	2024	LDT2	Aggregate	Aggregate	Diesel	237.4831158	9576.401702	0.290350384	290.3503844		9576.401702			
Riverside (SS)	2024	LDT2	Aggregate	Aggregate	Electricity	435.5197806	15142.38002	0	0		15142.38002			
Riverside (SS)	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	575.57264	25276.43056	0.40128681	401.28681		25276.43056			
Riverside (SS)	2024	LHDT1	Aggregate	Aggregate	Gasoline	4958.5701	185628.5819	13.44003017	13440.03017	19015.43783	185628.5819	302934.5694	15.93	LHDT1
Riverside (SS)	2024	LHDT1	Aggregate	Aggregate	Diesel	2972.622209	115954.0229	5.575407664	5575.407664		115954.0229			
Riverside (SS)	2024	LHDT1	Aggregate	Aggregate	Electricity	18.80735131	1351.964611	0	0		1351.964611			
Riverside (SS)	2024	LHDT2	Aggregate	Aggregate	Gasoline	1058.386283	35678.69083	3.061100595	3061.100595	6050.667554	35678.69083	88285.87522	14.59	LHDT2
Riverside (SS)	2024	LHDT2	Aggregate	Aggregate	Diesel	1374.214004	52275.63483	2.989566959	2989.566959		52275.63483			
Riverside (SS)	2024	LHDT2	Aggregate	Aggregate	Electricity	4.867930642	331.5495561	0	0		331.5495561			
Riverside (SS)	2024	MCY	Aggregate	Aggregate	Gasoline	5362.75917	33193.79366	0.777887593	777.8875927	777.8875927	33193.79366	33193.79366	42.67	MCY
Riverside (SS)	2024	MDV	Aggregate	Aggregate	Gasoline	46508.53518	1809141.418	94.57524433	94575.24433	95687.56714	1809141.418	1862721.405	19.47	MDV
Riverside (SS)	2024	MDV	Aggregate	Aggregate	Diesel	511.855903	20915.33225	0.846465042	846.4650417		20915.33225			
Riverside (SS)	2024	MDV	Aggregate	Aggregate	Electricity	472.7411123	16463.44954	0	0		16463.44954			
Riverside (SS)	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	355.2430454	16201.20469	0.265857768	265.8577684		16201.20469			
Riverside (SS)	2024	MH	Aggregate	Aggregate	Gasoline	874.8575896	7917.110329	1.63877354	1638.77354	2101.535014	7917.110329	12726.4515	6.06	MH
Riverside (SS)	2024	MH	Aggregate	Aggregate	Diesel	530.1935862	4809.341169	0.462761475	462.7614746		4809.341169			
Riverside (SS)	2024	MHDT	Aggregate	Aggregate	Gasoline	593.3401071	44910.84293	8.6669245	8666.9245	22461.226	44910.84293	170285.5359	7.58	MHDT
Riverside (SS)	2024	MHDT	Aggregate	Aggregate	Diesel	2434.068308	123232.2009	13.62244171	13622.44171		123232.2009			
Riverside (SS)	2024	MHDT	Aggregate	Aggregate	Electricity	9.063849127	601.932743	0	0		601.932743			
Riverside (SS)	2024	MHDT	Aggregate	Aggregate	Natural Gas	34.38039422	1540.559274	0.171859781	171.859781		1540.559274			
Riverside (SS)	2024	OBUS	Aggregate	Aggregate	Gasoline	115.2262318	8507.162402	1.644215831	1644.215831	2297.613172	8507.162402	13089.73139	5.70	OBUS
Riverside (SS)	2024	OBUS	Aggregate	Aggregate	Diesel	52.07146797	4239.217141	0.622212746	622.2127457		4239.217141			
Riverside (SS)	2024	OBUS	Aggregate	Aggregate	Electricity	0.288763506	36.99915584	0	0		36.99915584			
Riverside (SS)	2024	OBUS	Aggregate	Aggregate	Natural Gas	5.738015022	306.3526924	0.031184595	31.18459493		306.3526924			
Riverside (SS)	2024	SBUS	Aggregate	Aggregate	Gasoline	88.59079155	6633.806683	0.718561302	718.5613017	2041.728667	6633.806683	13543.88345	6.63	SBUS
Riverside (SS)	2024	SBUS	Aggregate	Aggregate	Diesel	149.1836183	3115.426108	0.425112862	425.1128624		3115.426108			
Riverside (SS)	2024	SBUS	Aggregate	Aggregate	Electricity	0.731557601	26.35215916	0	0		26.35215916			
Riverside (SS)	2024	SBUS	Aggregate	Aggregate	Natural Gas	150.4685446	3768.2985	0.898054503	898.0545025		3768.2985			
Riverside (SS)	2024	UBUS	Aggregate	Aggregate	Electricity	22.20573053	812.7748029	0	0	3893.917141	812.7748029	16341.47028	4.20	UBUS
Riverside (SS)	2024	UBUS	Aggregate	Aggregate	Natural Gas	116.8520109	15528.69548	3.893917141	3893.917141		15528.69548			

Source: EMFAC2021 (v1.0.2) Emissions Inventory

Region Type: Sub-Area Region: Riverside (SS) Calendar Year: 2025 Season: Annual

Vehicle Classification: EMFAC2007 Categories

Units: miles/day for CVMT and EVMT, trips/day for Trips, kWh/day for Energy Consumption, tons/day for Emissions, 1000 gallons/day for Fuel Consumption

Region	endar \\	nicle Catego	Model Year	Speed	Fuel	Population	Total VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SS)	2025	HHDT	Aggregate	Aggregate	Gasoline	1.738670363	315.5777359	0.083654026	83.65402613	223623.4549	315.5777359	1412449.225	6.32	HHDT
Riverside (SS)	2025	HHDT	Aggregate	Aggregate	Diesel	7387.545816	1394439.606	221.7595315	221759.5315		1394439.606			
Riverside (SS)	2025	HHDT	Aggregate	Aggregate	Electricity	40.8902936	6691.549844	0	0		6691.549844			
Riverside (SS)	2025	HHDT	Aggregate	Aggregate	Natural Gas	141.5240901	11002.49216	1.780269363	1780.269363		11002.49216			
Riverside (SS)	2025	LDA	Aggregate	Aggregate	Gasoline	128813.5656	4293886.826	145.9017666	145901.7666	148703.8796	4293886.826	4799568.659	32.28	LDA
Riverside (SS)	2025	LDA	Aggregate	Aggregate	Diesel	350.4560259	8955.46383	0.205286822	205.2868221		8955.46383			
Riverside (SS)	2025	LDA	Aggregate	Aggregate	Electricity	7072.521617	334891.7525	0	0		334891.7525			
Riverside (SS)	2025	LDA	Aggregate	Aggregate	Plug-in Hybrid	4051.991735	161834.616	2.596826159	2596.826159		161834.616			
Riverside (SS)	2025	LDT1	Aggregate	Aggregate	Gasoline	12526.97195	442743.1717	18.42400625	18424.00625	18446.54633	442743.1717	445337.0183	24.14	LDT1
Riverside (SS)	2025	LDT1	Aggregate	Aggregate	Diesel	5.403906711	124.1909651	0.004975822	4.975821731		124.1909651			
Riverside (SS)	2025	LDT1	Aggregate	Aggregate	Electricity	25.70285487	1275.456569	0	0		1275.456569			
Riverside (SS)	2025	LDT1	Aggregate	Aggregate	Plug-in Hybrid	26.77385241	1194.199153	0.017564261	17.56426115		1194.199153			
Riverside (SS)	2025	LDT2	Aggregate	Aggregate	Gasoline	67927.42298	2642156.909	109.8065669	109806.5669	110568.0539	2642156.909	2702396.347	24.44	LDT2
Riverside (SS)	2025	LDT2	Aggregate	Aggregate	Diesel	249.1813217	9931.690761	0.295107964	295.1079642		9931.690761			
Riverside (SS)	2025	LDT2	Aggregate	Aggregate	Electricity	591.9610922	20181.21713	0	0		20181.21713			
Riverside (SS)	2025	LDT2	Aggregate	Aggregate	Plug-in Hybrid	697.0666985	30126.53093	0.466379002	466.3790021		30126.53093			
Riverside (SS)	2025	LHDT1	Aggregate	Aggregate	Gasoline	4977.62585	186761.6835	13.15434809	13154.34809	18782.52406	186761.6835	307967.1264	16.40	LHDT1
Riverside (SS)	2025	LHDT1	Aggregate	Aggregate	Diesel	3039.535608	117720.154	5.628175977	5628.175977		117720.154			
Riverside (SS)	2025	LHDT1	Aggregate	Aggregate	Electricity	52.61905184	3485.288879	0	0		3485.288879			
Riverside (SS)	2025	LHDT2	Aggregate	Aggregate	Gasoline	1032.988781	34486.83468	2.9005526	2900.5526	5918.297848	34486.83468	88510.07112	14.96	LHDT2
Riverside (SS)	2025	LHDT2	Aggregate	Aggregate	Diesel	1409.681403	53178.02104	3.017745248	3017.745248		53178.02104			
Riverside (SS)	2025	LHDT2	Aggregate	Aggregate	Electricity	13.42085508	845.215405	0	0		845.215405			
Riverside (SS)	2025	MCY	Aggregate	Aggregate	Gasoline	5495.478525	33838.99591	0.789166027	789.1660271	789.1660271	33838.99591	33838.99591	42.88	MCY
Riverside (SS)	2025	MDV	Aggregate	Aggregate	Gasoline	47008.1694	1820036.65	92.82930845	92829.30845	93980.86046	1820036.65	1882765.328	20.03	MDV
Riverside (SS)	2025	MDV	Aggregate	Aggregate	Diesel	524.0209195	21097.10846	0.838513329	838.513329		21097.10846			
Riverside (SS)	2025	MDV	Aggregate	Aggregate	Electricity	642.5958619	21918.96047	0	0		21918.96047			
Riverside (SS)	2025	MDV	Aggregate	Aggregate	Plug-in Hybrid		19712.6086	0.313038674	313.0386744		19712.6086			
Riverside (SS)	2025	MH	Aggregate	Aggregate	Gasoline	840.9059347	7564.783522	1.565661263	1565.661263	2015.162343	7564.783522	12235.08303	6.07	MH
Riverside (SS)	2025	MH	Aggregate	Aggregate	Diesel	527.5594314	4670.299508	0.449501079	449.5010795		4670.299508			
Riverside (SS)	2025	MHDT	Aggregate	Aggregate	Gasoline	607.5308099	45898.57023	8.764483248	8764.483248	22656.87139	45898.57023	173882.0797	7.67	MHDT
Riverside (SS)	2025	MHDT	Aggregate	Aggregate	Diesel	2488.159403	124731.247	13.71086011	13710.86011		124731.247			
Riverside (SS)	2025	MHDT	Aggregate	Aggregate	Electricity	24.67140399	1622.30978	0	0		1622.30978			
Riverside (SS)	2025	MHDT	Aggregate	Aggregate	Natural Gas	36.88783793	1629.952746	0.181528027	181.5280265		1629.952746			
Riverside (SS)	2025	OBUS	Aggregate	Aggregate	Gasoline	112.4809417	8087.483773	1.547475848	1547.475848	2200.096097	8087.483773	12756.24782	5.80	OBUS
Riverside (SS)	2025	OBUS	Aggregate	Aggregate	Diesel	54.30854928	4258.87876	0.620273256	620.2732564		4258.87876			
Riverside (SS)	2025	OBUS	Aggregate	Aggregate	Electricity	0.710626991	88.74376403	0	0		88.74376403			
Riverside (SS)	2025	OBUS	Aggregate	Aggregate	Natural Gas	6.303348957	321.1415255	0.032346993	32.34699253		321.1415255			
Riverside (SS)	2025	SBUS	Aggregate	Aggregate	Gasoline	90.1050451	6702.874323	0.724212744	724.2127441	2047.446128	6702.874323	13626.8468	6.66	SBUS
Riverside (SS)	2025	SBUS	Aggregate	Aggregate	Diesel	146.0792796	3020.494338	0.411409838	411.4098383		3020.494338			
Riverside (SS)	2025	SBUS	Aggregate	Aggregate	Electricity	1.651404579	60.05182383	0	0		60.05182383			
Riverside (SS)	2025	SBUS	Aggregate	Aggregate	Natural Gas	155.2280767	3843.426317	0.911823545	911.8235453		3843.426317			
Riverside (SS)	2025	UBUS	Aggregate	Aggregate	Electricity	22.20573053	812.7748029	0	0	3901.028601	812.7748029	16374.45434	4.20	UBUS
Riverside (SS)	2025	UBUS	Aggregate	Aggregate	Natural Gas	117.1326887	15561.67953	3.901028601	3901.028601		15561.67953			

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