

Bay & Day Commerce Center

ENERGY ANALYSIS CITY OF MORENO VALLEY

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13796-05 EA Report

TABLE OF CONTENTS

ТА	BLE OI	F CONTENTS	I
AP	PENDI	ICES	II
-	-	XHIBITS	
		ABLES	
		ABREVIATED TERMS	
EX	ECUTI	VE SUMMARY	1
	ES.1	Summary of Findings	1
	ES.2	Project Requirements	1
1	INT	roduction	3
	1.1	Site Location	3
	1.2	Project Description	3
2	EXI	STING CONDITIONS	7
	2.1	Overview	7
	2.2	Electricity	10
	2.3	Natural Gas	11
	2.4	Transportation Energy Resources	14
3	REC	GULATORY BACKGROUND	17
	3.1	Federal Regulations	17
	3.2	California Regulations	17
4	PRO	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	32
	4.5	Summary	34
-	CO	NCLUSIONS	38
5			
5 6		FERENCES	42



APPENDICES

APPENDIX 4.1: CALEEMOD PROJECT CONSTRUCTION EMISSIONS MODEL OUTPUTS APPENDIX 4.2: CALEEMOD WAREHOUSE OPERATIONAL EMISSIONS MODEL OUTPUTS APPENDIX 4.3: CALEEMOD HIGH-CUBE COLD STORAGE OPERATIONAL EMISSIONS MODEL OUTPUTS APPENDIX 4.4: CALEEMOD WAREHOUSE OPERATIONAL LSTS EMISSIONS MODEL OUTPUTS APPENDIX 4.5: CALEEMOD HIGH-CUBE COLD STORAGE OPERATIONAL LSTS EMISSIONS MODEL OUTPUTS APPENDIX 4.4: EMFAC2021

LIST OF EXHIBITS

EXHIBIT 1-A: LOCATION MAP	4
EXHIBIT 1-B: SITE PLAN	5

LIST OF TABLES

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS	1
TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2021)	9
TABLE 2-2: MVU 2022 POWER CONTENT MIX	11
TABLE 4-1: CONSTRUCTION DURATION	24
TABLE 4-2: CONSTRUCTION POWER COST	25
TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE	25
TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS	26
TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES	27
TABLE 4-6: CONSTRUCTION TRIPS ASSUMPTIONS	28
TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES	29
TABLE 4-8: CONSTRUCTION VENDOR AND HAULING FUEL CONSUMPTION ESTIMATES	30
TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)	32
TABLE 4-10: PROJECT ANNUAL ENERGY DEMAND SUMMARY	33



LIST OF ABREVIATED TERMS

%	Percent
(1)	Reference
AQIA	Bay & Day Commerce Center 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
CEQA Guidelines	2023 CEQA Statute and Guidelines
City	City of Moreno Valley
CPEP	Clean Power and Electrification Pathway
CPUC	California Public Utilities Commission
DMV	Department of Motor Vehicles
EIA	Energy Information Administration
EPA	Environmental Protection Agency
EMFAC	EMissions FACtor
FERC	Federal Energy Regulatory Commission
GHG	Greenhouse Gas
GWh	Gigawatt Hour
HHDT	Heavy-Heavy Duty Trucks
hp-hr-gal	Horsepower Hours Per Gallon
IEPR	Integrated Energy Policy Report
ISO	Independent Service Operator
ISTEA	Intermodal Surface Transportation Efficiency Act
ITE	Institute of Transportation Engineers
kBTU	Thousand-British Thermal Units
kWh	Kilowatt Hour
LDA	Light Duty Auto
LDT1/LDT2	Light-Duty Trucks
LHDT1/LHDT2	Light-Heavy Duty Trucks
MDV	Medium Duty Trucks
MHDT	Medium-Heavy Duty Trucks
MMcfd	Million Cubic Feet Per Day

mpg	Miles Per Gallon
MPO	Metropolitan Planning Organization
PG&E	Pacific Gas and Electric
Project	Bay & Day Commerce Center
SCAB	South Coast Air Basin
SCE	Southern California Edison
sf	Square Feet
SoCalGas	Southern California Gas
TEA-21	Transportation Equity Act for the 21 st Century
U.S.	United States
VMT	Vehicle Miles Traveled



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EXECUTIVE SUMMARY

ES.1 SUMMARY OF FINDINGS

The results of this *Bay & Day Commerce Center 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.

Analysis	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?	5.1	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?	5.2	Less Than Significant	n/a	

TABLE ES-1: SUMMARY OF CEQA SIGNIFICANCE FINDINGS

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 are 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 Bay & Day Commerce Center Project (Project). The purpose of this report is to ensure that energy implication is considered by the City of Moreno Valley (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 southwestern corner of Day Street and Bay Avenue in the City of Moreno Valley as shown on Exhibit 1-A. The March Air Reserve Base/Inland Port Airport (MARB/IPA) boundary is located approximately 0.6 miles south of the Project site. The Project site is bordered to the north, south, and east by residential uses.

1.2 PROJECT DESCRIPTION

The Project is proposed to consist of a 194,775 square foot (sf) warehouse building (75% general warehousing use and 25% high-cube cold storage warehouse use) on 9.951 acres¹. The Project is proposed to be developed in a single phase with an anticipated Opening Year of 2025. The preliminary site plan for the proposed Project is shown on Exhibit 1-B

¹ At the time the underlying analysis was prepared the Project's site plan included a conceptual plan for up to 193, 745 sf. Although the square footage has increased by 1,030 sf from what is included in the underlying modeling, the results of this analysis are still valid and any changes due to the 1,030-sf increase would be negligible.



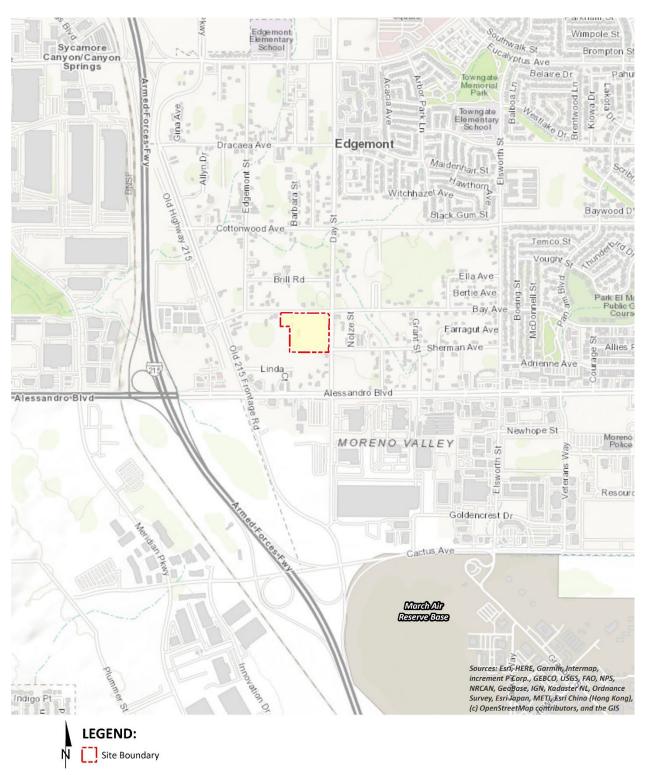


EXHIBIT 1-A: LOCATION MAP

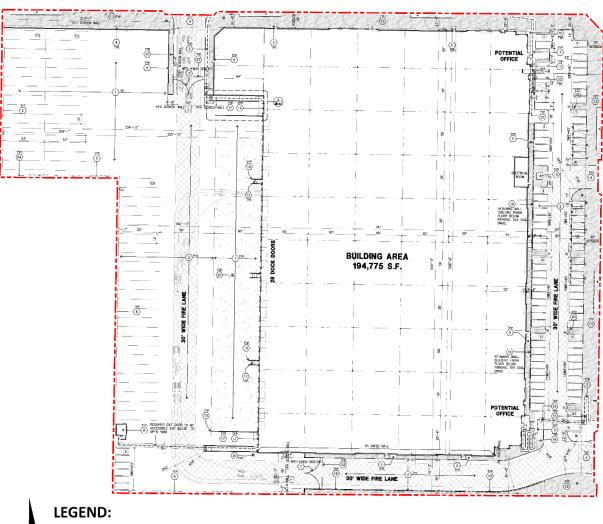


EXHIBIT 1-B: SITE PLAN



Site Boundary



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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 2021, 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 2021, approximately 7,359 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 2022 the U.S. petroleum consumption comprised about 90% 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)

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 (8).



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 71% 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 (10):

- 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.



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	Total California Power Mix
Coal	273	0.13%	181	5,716	5,897	6,170	2.15%
Natural Gas	96,457	47.46%	44	7,994	8,038	104,495	36.38%
Oil	65	0.03%	-	-	-	65	0.2%
Other (Waste Heat/Petroleum Coke)	315	0.15%	-	-	-	315	0.11%
Unspecified	-	0.0%	12,485	7,943	20,428	20,428	7.11%
Total Thermal and Unspecified	97,110	47.78%	12,710	21,653	34,363	121,473	45.77%
Nuclear	17,627	8.67%	397	8,342	8,739	26,366	9.18%
Large Hydro	14,607	7.19%	10,803	1,118	11,921	26,528	9.24%
Biomass	5,366	2.64%	771	25	797	6,162	2.15%
Geothermal	11,110	5.47%	253	2,048	2,301	13,412	4.67%
Small Hydro	3,005	1.48%	211	13	225	3,230	1.12%
Solar	40,494	19.92%	231	8,225	8,456	48,950	17.04%
Wind	13,938	6.86%	8,804	8,357	17,161	31,099	10.83%
Total Non-GHG and Renewables	106,147	52.22%	21,471	28,129	49,599	155,747	54.23%
SYSTEM TOTALS	203,257	100.0%	34,180	49,782	83,962	287,220	100.0%

TABLE 2-1: TOTAL ELECTRICITY SYSTEM POWER (CALIFORNIA 2021)



2.2 ELECTRICITY

The usage associated with electricity use were calculated using CalEEMod Version 2022.1.1.12. 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 (9).

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 by Moreno Valley Utility (MVU). MVU provides electric power to more than MVU serves over 6,500 customers within its service area. MVU provides customer service, meter reading, billing, emergency response and other services to new commercial and residential developments. Based on MVU's 2022 Power Content Label Mix, MVU derives electricity from varied energy resources including: fossil fuels, hydroelectric generators, nuclear power plants, geothermal power plants, solar power generation, and wind farms. MVU also purchases from independent power producers and utilities, including out-of-state suppliers (14). Tables 2-2 identifies MVU's specific proportional shares of electricity sources in 2022 (20).



Energy Resources	2022 MVU Power Mix
Eligible Renewable	33.4%
Biomass & Waste	0%
Geothermal	0%
Eligible Hydroelectric	0%
Solar	33.4%
Wind	0%
Coal	0.0%
Large Hydroelectric	0.0%
Natural Gas	0.0%
Nuclear	0.0%
Other	0.0%
Unspecified Sources of power*	66.6%
Total	100%

TABLE 2-2: MVU 2022 POWER CONTENT MIX

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

2.3 NATURAL GAS

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

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

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

The overwhelming majority of natural gas utility customers in California are residential and small commercial customers, referred to as "core" customers. Larger volume gas customers, like electric generators and industrial customers, are called "noncore" customers. Although very small in number relative to core customers, noncore customers consume about 65% of the natural gas delivered by the state's natural gas utilities, while core customers consume about 35%.



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

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

Natural gas from out-of-state production basins is delivered into California via the interstate natural gas pipeline system. The major interstate pipelines 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 utilityprovided 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." (12)

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

2.4 TRANSPORTATION ENERGY RESOURCES

The Project would generate additional vehicle trips with resulting consumption of energy resources, predominantly gasoline and diesel fuel. The Department of Motor Vehicles (DMV) identified 36.2 million registered vehicles in California (6), and those vehicles consume an estimated 17.2 billion gallons of fuel each year². Gasoline (and other vehicle fuels) are



 $^{^2\,}$ Fuel consumptions estimated utilizing information from EMFAC2021.

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 (16).

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% (16).

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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 (18). 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 (19):

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).
- Electric vehicle (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).
- 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 reused 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 (5.303.3.2).
 - 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 44% of total retail sales by 2024 (17).

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 25% by 2027.
- Double the energy efficiency in existing buildings by 2030. This target will be achieved through the California Public Utility Commission (CPUC), the California Energy Commission (CEC), and local publicly owned utilities.
- Reorganize the Independent System Operator (ISO) to develop more regional electrify transmission markets and to improve accessibility in these markets, which will facilitate the growth of renewable energy markets in the western United States (California Leginfo 2015).

13796-05 EA Report



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4 PROJECT ENERGY DEMANDS AND ENERGY EFFICIENCY MEASURES

4.1 EVALUATION CRITERIA

Per Appendix F of the *State CEQA Guidelines* (18), 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* (19), this report analyzes the project's anticipated energy use during construction and operations to determine if the Project would:

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

4.2 METHODOLOGY

Information from the CalEEMod Version 2022.1.1.12 outputs for the *Bay & Day Commerce Center 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 2022.1.1.12. 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. Output from the annual construction and operational model runs are provided in Appendices 4.1, 4.2 and 4.3.

4.2.2 EMISSION FACTORS MODEL

On May 2, 2022, the EPA approved the 2021 version of the EMissions FACtor model (EMFAC2021) web database for use in State Implementation Plan and transportation conformity analyses. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (22). 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 2024 and 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 Appendices 4.2 and 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 March 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* (28).

Construction Activity	Start Date	End Date	Days
Demolition	6/3/2024	6/28/2024	20
Site Preparation	7/1/2024	7/12/2024	10
Grading	7/15/2024	8/9/2024	20
Building Construction	8/12/2024	4/25/2025	185
Paving	3/31/2025	4/25/2025	20
Architectural Coating	3/31/2025	4/25/2025	20

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 (29).

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 \$10,837.50.



Land Use	Power Cost (per 1,000 SF)	Size (1,000 SF)	Construction Duration (months)	Project Construction Power Cost
Warehousing (75%)	\$2.50	145.31	10	\$3,632.73
High-Cube Cold Storage Warehouse (25%)	\$2.50	48.44	10	\$1,210.90
Parking	\$2.50	59.24	10	\$1,481.05
Other Asphalt Surfaces	\$2.50	180.51	10	\$4,512.83
	CO	NSTRUCTION	I POWER COST	\$10,837.50

TABLE 4-2: CONSTRUCTION POWER COST

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 MVU's general service rate schedule was used to determine the Project's electrical usage. As of December 19, 2023, MVU's general service rate is \$0.15 per kilowatt hours (kWh) of electricity for industrial services (29). As shown on Table 4-3, the total electricity usage from on-site Project construction related activities is estimated to be approximately 72,250 kWh.

Land Use	Cost per kWh	Project Construction Electricity Usage (kWh)
Warehousing (75%)	\$0.15	24,218
High-Cube Cold Storage Warehouse (25%)	\$0.15	8,073
Parking	\$0.15	9,874
Other Asphalt Surfaces	\$0.15	30,086
CONSTRUCTION	72,250	

TABLE 4-3: CONSTRUCTION ELECTRICITY USAGE

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 will 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 City of Moreno Valley Municipal Code.



Construction equipment rated more than 100 horsepower used at the Project site would meet at least CARB Tier 4 Interim emission standards.

Construction Activity	Equipment	Amount	Hours Per Day
	Concrete/Industrial Saws	1	8
Demolition	Excavators	3	8
	Rubber Tired Dozers	2	8
Site Droparation	Crawler Tractors	4	8
Site Preparation	Rubber Tired Dozers	3	8
	Crawler Tractors	3	8
Crading	Excavators	1	8
Grading	Graders	1	8
	Rubber Tired Dozers	1	8
	Cranes	2	8
	Crawler Tractors	5	8
Building Construction	Forklifts	5	8
	Generator Sets	2	8
	Welders	2	8
	Pavers	2	8
Paving	Paving Equipment	2	8
	Rollers	2	8
Architectural Coating	Air Compressors	1	8

TABLE 4-4: CONSTRUCTION EQUIPMENT ASSUMPTIONS

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 (25). For the purposes of this analysis, the calculations are based on all construction equipment being diesel-powered which is consistent with industry standards. Diesel fuel would be supplied by existing commercial fuel providers serving the Project area and region³. As presented in Table 4-5, Project construction activities would consume an estimated 50,787 gallons of diesel fuel.

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



Construction Activity	Duration (Days)	Equipment	HP Rating	Quantity	Usage Hours	Load Factor	HP- hrs/day	Total Fuel Consumption
		Concrete/Industrial Saws	33	1	8	0.73	193	208
Demolition	20	Excavators	36	3	8	0.38	328	355
		Rubber Tired Dozers	367	2	8	0.4	hrs/day 193 328 2,349 3,523 995 485 109 746 1,174 656 166 1,703 331 1,243 544 513 219 142	2,539
City Descention	10	Rubber Tired Dozers	367	3	8	0.4	3,523	1,904
Site Preparation	10	Crawler Tractors	84	4	8	0.37	hrs/day 193 328 2,349 3,523 995 485 109 746 1,174 656 166 1,703 331 1,243 544 513 219 142	538
		Graders	148	1	8	Factor 0.73 0.38 0.4 0.37 0.41 0.37 0.41 0.37 0.41 0.37 0.41 0.37 0.41 0.38 0.37 0.4 0.2 0.74 0.2 0.74 0.29 0.45 0.37 0.45 0.37 0.45 0.37 0.45 0.37 0.45 0.37 0.45 0.37 0.45	485	525
Cradina	20	Excavators	36	1	8	0.38	109	118
Grading		Crawler Tractors	84	3	8	0.37	746	806
		Rubber Tired Dozers	367	1	8	0.4	hrs/day 193 193 2,349 3,523 995 485 109 1,174 656 1,174 656 1,174 656 1,174 656 1,174 54 1,243 544 513 219 4142	1,270
	185	Forklifts	82	5	8	0.2	656	6,560
		Generator Sets	14	2	8	0.74	166	1,658
Building Construction		Cranes	367	2	8	0.29	1,703	17,029
		Welders	46	2	8	0.45	331	3,312
		Tractors/Loaders/Backhoes	84	5	8	0.37	1,243	12,432
	20	Pavers	81	2	8	0.42	544	588
Paving		Paving Equipment	89	2	8	0.36	513	554
		Rollers	36	2	8	0.42 544 0.36 513 0.38 219	237	
Architectural Coating	40	Air Compressors	37	1	8	0.48	142	154
CONSTRUCTION FUEL DEMAND (GALLONS DIESEL FUEL)							50,787	

TABLE 4-5: CONSTRUCTION EQUIPMENT FUEL CONSUMPTION ESTIMATES



Project construction would represent a "single-event" diesel fuel demand and would not require on-going or permanent commitment of diesel fuel resources for this purpose.

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	
Demolition	15	3	8	
Site Preparation	18	1	0	
Grading	15	3	490	
Building Construction	81	25	0	
Paving	15	0	0	
Architectural Coating	16	0	0	

TABLE 4-6: CONSTRUCTION TRIPS ASSUMPTIONS

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 311,263 VMT during the 10 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 (LDT1⁴), and 25% are from light-duty-trucks (LDT2⁵). Data regarding Project related construction worker trips were based on CalEEMod defaults utilized within the AQIA.

Vehicle fuel efficiencies for LDA, LDT1, and LDT2 were estimated using information generated within the 2021 version of the EMFAC developed by CARB. EMFAC2021 is a mathematical model that was developed to calculate emission rates, fuel consumption, and VMT from motor vehicles that operate on highways, freeways, and local roads in California and is commonly used by the CARB to project changes in future emissions from on-road mobile sources (22). EMFAC2021 was run for the LDA, LDT1, and LDT2 vehicle class within the Riverside sub-area for the 2024 and 2025 calendar years. Data from EMFAC2021 is shown in Appendix 4.1.

As shown in Table 4-7, the estimated annual fuel consumption resulting from Project construction worker trips is 11,147 gallons during full construction of the Project. It should be

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



⁴ Vehicles under the LDT1 category have a gross vehicle weight rating (GVWR) of less than 6,000 lbs. and equivalent test weight (ETW) of less than or equal to 3,750 lbs.

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.

Year	Construction Activity	Duration (Days)	Worker Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)		
	LDA								
	Demolition	20	8	18.5	2,960	31.51	94		
	Site Preparation	10	9	18.5	1,665	31.51	53		
	Grading	20	8	18.5	2,960	31.51	94		
	Building Construction	102	41	18.5	77,367	31.51	2,456		
	LDT1								
	Demolition	20	4	18.5	1,480	24.62	60		
2024	Site Preparation	10	5	18.5	925	24.62	38		
	Grading	20	4	18.5	1,480	24.62	60		
	Building Construction	102	21	18.5	39,627	24.62	1,609		
	LDT2								
	Demolition	20	4	18.5	1,480	24.57	60		
	Site Preparation	10	5	18.5	925	24.57	38		
	Grading	20	4	18.5	1,480	24.57	60		
	Building Construction	102	21	18.5	39,627	24.57	1,613		
	LDA								
2025	Building Construction	83	41	18.5	62,956	32.49	1,938		
	Paving	20	8	18.5	2,960	32.49	91		
	Architectural Coating	20	8	18.5	2,960	32.49	91		
	LDT1								
	Building Construction	83	21	18.5	32,246	25.14	1,283		
	Paving	20	4	18.5	1,480	25.14	59		
	Architectural Coating	20	4	18.5	1,480	25.14	59		
	LDT2								
	Building Construction	83	21	18.5	32,246	25.29	1,275		
	Paving	20	4	18.5	1,480	25.29	59		
	Architectural Coating	20	4	18.5	1,480	25.29	59		
		тот	AL CONSTRU		RKER FUEL	CONSUMPTION	11,147		

TABLE 4-7: CONSTRUCTION WORKER FUEL CONSUMPTION ESTIMATES



4.3.6 CONSTRUCTION VENDOR AND HAULING FUEL ESTIMATES

With respect to estimated VMT, the construction vendor trips (vehicles that deliver materials to the site during construction) would generate an estimated 249,690 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 HHDs. 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 sub-area for the 2024 and 2025 calendar years. Data from EMFAC2021 is shown in Appendix 4.1.

Based on Table 4-8, it is estimated that 39,596 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.

Year	Phase Name	Duration (Days)	Vendor/ Hauling Trips/Day	Trip Length (miles)	VMT	Average Vehicle Fuel Economy (mpg)	Estimated Fuel Consumption (gallons)		
	MHDT								
	Demolition	20	2	10.2	408	8.49	48		
	Site Preparation	10	1	10.2	102	8.49	12		
	Grading	20	1	10.2	204	8.49	24		
	Building Construction	102	13	10.2	13,525	8.49	1,592		
	HHDT (Vendor)								
2024	Demolition	20	2	10.2	408	6.12	67		
	Site Preparation	10	1	10.2	102	6.12	17		
	Grading	20	1	10.2	204	6.12	33		
	Building Construction	102	13	10.2	13,525	6.12	2,210		
	HHDT (Hauling)								
	Demolition	20	8	20	3,200	6.12	523		
	Grading	20	490	20	196,000	6.12	32,021		
2025	MHDT								
	Building Construction	83	13	10.2	11,006	8.60	1,280		
	HHDT (Vendor)								
	Building Construction	83	13	10.2	11,006	6.22	1,770		
TOTAL CONSTRUCTION VENDOR AND HAULING FUEL CONSUMPTION							39,596		

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



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 turn over 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 City building officials, and/or in response to citizen complaints.

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

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



4.4 **OPERATIONAL ENERGY DEMANDS**

Energy consumption in support of or related to Project operations would include transportation 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 ENERGY DEMANDS

Energy that would be consumed by Project-generated traffic is a function of total VMT and estimated vehicle fuel economies of vehicles accessing the Project site. The VMT per vehicle class can be determined by 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 sub-area for the 2024 and 2025 calendar years. Data from EMFAC2021 is shown in Appendices 4.2 and 4.3.

In order to account for the possibility of refrigerated uses (cold storage) that would be accommodated by the up to 48,440 sf of 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 19 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.

Vehicle Type	Annual VMT	Average Vehicle Fuel Economy (mpg)	Estimated Annual Fuel Consumption (gallons)
LDA	390,857	32.49	12,030
LDT1	30,759	25.14	1,224
LDT2	158,458	25.29	6,265
MDV	125,720	15.75	7,982
MCY	18,450	15.75	1,171
LHDT1	310,508	16.52	18,797
LHDT2	88,175	15.75	5,598
MHDT	222,819	8.60	25,907
HHDT	838,345	6.22	134,833
TRUs			17,724
TOTAL (ALL VEHICLES)	2,184,091		231,531

TABLE 4-9: TOTAL PROJECT-GENERATED TRAFFIC ANNUAL FUEL CONSUMPTION (ALL VEHICLES)

4.4.2 FACILITY ENERGY DEMANDS

Project building operations activities would result in the consumption of natural gas and electricity, which would be supplied to the Project by SoCalGas and MVU, respectively. As



previously stated, the analysis herein assumes compliance with the 2022 Title 24 Standards. As summarized on Table 4-10 the Project would result in 4,055,934 kBTU/year of natural gas and 1,779,894 kWh/year of electricity.

Land Use	Natural Gas Demand (kBTU/year)	Electricity Demand (kWh/year)
Warehousing (75%)	2,774,266	668,763
High-Cube Cold Storage Warehouse (25%)	1,281,668	1,059,274
Parking	0	51,857
TOTAL PROJECT ENERGY DEMAND	4,055,934	1,779,894

TABLE 4-10: PROJECT ANNUAL ENERGY DEMAND SUMMARY

4.4.3 ON-SITE CARGO HANDLING EQUIPMENT FUEL DEMANDS

It is common for industrial buildings to require the operation of exterior cargo handling equipment in the building's truck court areas. For this particular Project, on-site modeled operational equipment includes up to one (1) 175 horsepower (hp), natural gas-powered cargo handling equipment – port tractors operating at 4 hours a day⁶ for 365 days of the year.

Project operational activity estimates and associated fuel consumption estimates are based on the annual EMFAC 2021 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 4,642 gallons of natural gas.

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

Equipment	Quantity	Usage Hours	Days of Operation	EMFAC 2021 Fuel Consumption (gal./yr)	EMFAC 2021 Activity (hrs./yr)	Total Fuel Consumption
Cargo Handling Equipment	2	4	365	17,909	5,633	4,642
ON-SITE	CARGO HAN	IDLING EC	UIPMENT FU	EL DEMAND (GA	LLONS FUEL)	4,642

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

⁶ 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.



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

Enhanced fuel economies realized pursuant to federal and state regulatory actions, and related transition of vehicles to alternative energy sources (e.g., electricity, natural gas, biofuels, hydrogen cells) would likely decrease future gasoline fuel demands per VMT. The 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 \$10,837.50. Additionally, based on the assumed power cost, it is estimated that the total electricity usage during construction, after full Project build-out, is calculated to be approximately 72,250 kWh.

Construction equipment used by the Project would result in single event consumption of approximately 50,787 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, Motor Vehicles, section 2449(d)(3) Idling, limits idling times of construction vehicles to no more than 5 minutes, thereby precluding unnecessary and wasteful consumption of fuel due to unproductive idling of construction equipment. BACMs inform construction equipment operators of this requirement. Enforcement of idling limitations is realized through periodic site inspections conducted by City building officials, and/or in response to citizen complaints.

Construction worker trips for full construction of the Project would result in the estimated fuel consumption of 11,147 gallons of fuel. Additionally, fuel consumption from construction vendor trips (MHDs and HHDs) will total approximately 39,596 gallons. Diesel fuel would be supplied by City and regional commercial vendors. Indirectly, construction energy efficiencies and energy conservation would be achieved using bulk purchases, transport and use of construction materials. The 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 (33). 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 231,531 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 commercial 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 heavyduty trucks is focused on making trucks more efficient and expediting truck turnover rather than reducing VMT from trucks. This is in contrast to the passenger vehicle component of the transportation sector where both per-capita VMT reductions and an increase in vehicle efficiency are forecasted to be needed to achieve the overall state emissions reductions goals.

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

- CARB's Mobile Source Strategy focuses on reducing GHGs through the transition to zero and low emission vehicles and from medium-duty and heavy-duty trucks.
- CARB's Sustainable Freight Action Plan establishes a goal to improve freight efficiency by 25 percent by 2030, deploy over 100,000 freight vehicles and equipment capable of zero emission operation and maximize both zero and near-zero emission freight vehicles and equipment powered by renewable energy by 2030.
- CARB's Emissions Reduction Plan for Ports and Goods Movement (Goods Movement Plan) in California focuses on reducing heavy-duty truck-related emissions focus on establishment of emissions standards for trucks, fleet turnover, truck retrofits, and restriction on truck idling (CARB 2006). While the focus of Goods Movement Plan is to reduce criteria air pollutant and air toxic emissions, the strategies to reduce these pollutants would also generally have a beneficial effect in reducing GHG emissions.
- CARB's On-Road Truck and Bus Regulation (2010) requires diesel trucks and buses that operate in California to be upgraded to reduce emissions. Newer heavier trucks and buses must meet particulate matter filter requirements beginning January 1, 2012. Lighter and older heavier trucks must be replaced starting January 1, 2015. By January 1, 2023 nearly all trucks and buses will need to have 2010 model year engines or equivalent (26).
- 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 City requirements, the Project would promote the use of bicycles as an alternative mean of transportation by providing short-term and/or long-term bicycle parking accommodations. As supported by the preceding discussions, Project transportation energy consumption would not be considered inefficient, wasteful, or otherwise unnecessary.

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 4,642 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 at: 4,055,934 kBTU/year of natural gas; and 1,779,894 kWh/year of electricity. Natural gas would be supplied to the Project by SoCalGas; electricity would be supplied by MVU. The Project proposes conventional commercial 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 commercial uses of similar scale and configuration.

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



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5 CONCLUSIONS

5.1 ENERGY IMPACT 1

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

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 350,859 VMT and consume an estimated 50,743 gallons of gasoline and diesel combined during future development projects construction phases. Additionally, on-site construction equipment would consume an estimated 50,787 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 CalEEMod energy use estimations, operations for the Project would result in approximately 1,779,894 kWh of electricity and 4,055,934 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.

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 2.18 million VMT and consume an estimated 231,531 gallons of gasoline and diesel combined, annually (see Appendix 4.4).

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 1,779,894 kWh of electricity and 4,055,934 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

The contents of this energy analysis report represent an accurate depiction of the environmental impacts associated with the proposed Bay & Day Commerce Center. The information contained in this energy analysis report is based on the best available data at the time of preparation. If you have any questions, please contact me directly at <u>hqureshi@urbanxroads.com</u>.

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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 Planners 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



13796 - Edgemont LDC (Construction) Detailed Report

Table of Contents

- 1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
- 2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2024) 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. Paving (2025) Unmitigated

3.13. 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	13796 - Edgemont LDC (Construction)
Construction Start Date	6/3/2024
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.920178, -117.279269
County	Riverside-South Coast
City	Moreno Valley
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5531
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.16

1.2. Land Use Types

Land Use	e Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrige Warehou	erated use-No Rail	145	1000sqft	3.34	145,309	0.00			

Refrigerated Warehouse-No Rail	48.4	1000sqft	1.11	48,436	0.00	—	—	—
Parking Lot	151	Space	1.36	0.00	0.00		<u> </u>	_
Other Asphalt Surfaces	4.14	Acre	4.14	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

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.	1.90	50.4	49.2	49.1	0.24	0.73	11.4	12.1	0.73	3.48	4.21	—	36,088	36,088	0.70	5.56	73.6	37,835
Daily, Winter (Max)	—	-	-		_		—	_	_		-	_	_	—	-	_	_	
Unmit.	1.45	50.3	27.2	47.0	0.07	0.31	1.69	2.00	0.30	0.40	0.70	—	8,732	8,732	0.35	0.22	0.21	8,808
Average Daily (Max)	—	-	-		—	—		-	_	—	-	-	_	-	-	-	-	
Unmit.	0.45	2.93	9.06	12.8	0.03	0.11	1.19	1.30	0.10	0.36	0.46	—	3,573	3,573	0.10	0.36	2.62	3,686
Annual (Max)	_	_	_		_	_	_	_		_	_	_		_	_	_	_	
Unmit.	0.08	0.53	1.65	2.34	< 0.005	0.02	0.22	0.24	0.02	0.07	0.08	_	591	591	0.02	0.06	0.43	610

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

2.2. Construction Emissions by Year, Unmitigated

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	1.90	1.07	49.2	35.3	0.24	0.73	11.4	12.1	0.73	3.48	4.21	-	36,088	36,088	0.70	5.56	73.6	37,835
2025	1.52	50.4	27.1	49.1	0.07	0.31	1.69	2.00	0.30	0.40	0.70	_	8,860	8,860	0.35	0.22	8.00	8,944
Daily - Winter (Max)	-	_	-	-	-	-	_	_		_		_	_	_	-	-		-
2024	1.09	1.04	18.6	33.7	0.03	0.19	1.28	1.46	0.18	0.31	0.49	_	4,456	4,456	0.17	0.18	0.18	4,514
2025	1.45	50.3	27.2	47.0	0.07	0.31	1.69	2.00	0.30	0.40	0.70	-	8,732	8,732	0.35	0.22	0.21	8,808
Average Daily	-	—	-	—	—	-	-	-	-	-	-	-	-	_	_	-	-	-
2024	0.45	0.39	9.06	12.8	0.03	0.11	1.19	1.30	0.10	0.36	0.46	_	3,573	3,573	0.10	0.36	2.62	3,686
2025	0.26	2.93	4.64	8.30	0.01	0.05	0.31	0.36	0.05	0.07	0.12	_	1,612	1,612	0.06	0.05	0.66	1,628
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	-	_	_
2024	0.08	0.07	1.65	2.34	< 0.005	0.02	0.22	0.24	0.02	0.07	0.08	_	591	591	0.02	0.06	0.43	610
2025	0.05	0.53	0.85	1.52	< 0.005	0.01	0.06	0.07	0.01	0.01	0.02	_	267	267	0.01	0.01	0.11	269

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

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	TOG	ROG	NOx	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		0.41	11.9	18.2	0.03	0.20	—	0.20	0.19	—	0.19	—	3,425	3,425	0.14	0.03	—	3,437
Demolitio n		—		—		—	0.67	0.67	—	0.10	0.10	—			—	—	_	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Daily, Winter (Max)			-	_	-	_	_	_	_	_	-	-	-	_	-	-	_	_
Average Daily	—	—	—	—	—	—	-	-	-	-	-	-	—	-	—	-	-	-
Off-Road Equipmen		0.02	0.65	1.00	< 0.005	0.01	-	0.01	0.01	-	0.01	-	188	188	0.01	< 0.005	-	188
Demolitio n	_	-	-	-	—	-	0.04	0.04	-	0.01	0.01	-	—	-	-	-	-	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Annual	_	-	-	_	-	_	-	-	-	_	_	-	-	_	-	_	-	_
Off-Road Equipmen		< 0.005	0.12	0.18	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	31.1	31.1	< 0.005	< 0.005	-	31.2
Demolitio n	_	_	-	—	—	-	0.01	0.01	-	< 0.005	< 0.005	-	—	-	-	-	-	-
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Offsite	_	-	-	_	-	—	-	—	—	—	_	-	-	—	—	—	-	—
Daily, Summer (Max)		_	-	_	—	_	_		_	-		-	—	_	-	_	_	_
Worker	0.08	0.08	0.07	1.25	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	216	216	0.01	0.01	0.86	—
Vendor	< 0.005	< 0.005	0.11	0.03	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	_	93.1	93.1	< 0.005	0.01	0.26	_
Hauling	0.02	0.01	0.62	0.15	< 0.005	0.01	0.14	0.15	0.01	0.04	0.05	_	546	546	0.01	0.09	1.16	_

Daily, Winter (Max)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average Daily	_	_	_	_	_	_	_	-	_	_	-	_	_	_	-	_	-	_
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	0.02	_
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	-	5.11	5.11	< 0.005	< 0.005	0.01	-
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	-	29.9	29.9	< 0.005	< 0.005	0.03	_
Annual	-	-	_	-	_	_	_	_	_	_	_	-	_	_	_	-	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	-	1.82	1.82	< 0.005	< 0.005	< 0.005	_
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.85	0.85	< 0.005	< 0.005	< 0.005	_
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	4.96	4.96	< 0.005	< 0.005	< 0.005	_

3.3. Site Preparation (2024) - Unmitigated

				<u>, , , , , , , , , , , , , , , , , , , </u>		,			,									
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		0.64	14.7	28.3	0.04	0.10		0.10	0.10		0.10	—	4,134	4,134	0.17	0.03		4,148
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	—
Daily, Winter (Max)																		—

13796 - Edgemont LDC (Construction) Detailed Report, 8/2/2023

Average Daily		-	-	-	-	_	-	_	_	_	_	-	_	_	_	-	_	_
Off-Road Equipmen		0.02	0.40	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	_	113	113	< 0.005	< 0.005	-	114
Dust From Material Movemen	 :					_	0.16	0.16		0.07	0.07					_		
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—
Annual	_	_	_	_	—	—	_	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipmen		< 0.005	0.07	0.14	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	18.8	18.8	< 0.005	< 0.005	_	18.8
Dust From Material Movemen		_	_	_		_	0.03	0.03		0.01	0.01					_	_	
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Daily, Summer (Max)	_	-	-	-	-	-	-	-	_				_	_	_	_	_	_
Worker	0.10	0.09	0.08	1.46	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	252	252	0.01	0.01	1.00	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.42	6.42	< 0.005	< 0.005	0.01	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Annual	—	—	—	-	—	-	—	—	—	—	—	—	—	-	—	—	—	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.06	1.06	< 0.005	< 0.005	< 0.005	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Hauling	0.00	0.00	0.00	0.00	0.00	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

			, .e. a.a	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		0.39	10.3	17.8	0.01	0.08	-	0.08	0.08	_	0.08	-	1,520	1,520	0.06	0.01	_	1,525
Dust From Material Movemen	 !	_	—	—	_	_	2.31	2.31	—	0.94	0.94	_	—	—	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Daily, Winter (Max)		_	_		_	_	_	_	_		_	_	_	_	_	_	_	_
Average Daily		-	-	—	_	_	-	_	—	—	-	_	—	—	_	_	_	—
Off-Road Equipmen		0.02	0.56	0.97	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	83.3	83.3	< 0.005	< 0.005	—	83.6
Dust From Material Movemen	 T	_			_	_	0.13	0.13		0.05	0.05	_			_	_	_	

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	_
Annual	-	—	—	-	-	-	-	_	-	-	_	—	—	_	_	_	-	_
Off-Road Equipmer		< 0.005	0.10	0.18	< 0.005	< 0.005	_	< 0.005	< 0.005		< 0.005	-	13.8	13.8	< 0.005	< 0.005	—	13.8
Dust From Material Movemen	 ::	_	_	_	_	_	0.02	0.02		0.01	0.01	_	_	_	_			_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Offsite	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	-	-	_				_	_	-	-	-	_	-	-	_	_	_
Worker	0.08	0.08	0.07	1.25	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	216	216	0.01	0.01	0.86	_
Vendor	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	62.1	62.1	< 0.005	0.01	0.17	-
Hauling	1.41	0.54	38.7	9.34	0.23	0.65	8.86	9.51	0.65	2.49	3.13	_	34,291	34,291	0.63	5.53	72.5	—
Daily, Winter (Max)	—	_	-	-				_	_	-	-	-	_	—	-	_	_	_
Average Daily	—	-	_	—	—	—	—	-	—	—	-	-	-	—	_	-	—	-
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.0	11.0	< 0.005	< 0.005	0.02	-
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.40	3.40	< 0.005	< 0.005	< 0.005	—
Hauling	0.08	0.03	2.23	0.52	0.01	0.04	0.48	0.52	0.04	0.14	0.17	—	1,879	1,879	0.03	0.30	1.71	—
Annual	_	—	_	-	_	_	_	-	-	-	_	_	—	—	—	—	-	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.82	1.82	< 0.005	< 0.005	< 0.005	-
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.56	0.56	< 0.005	< 0.005	< 0.005	-
Hauling	0.01	0.01	0.41	0.09	< 0.005	0.01	0.09	0.09	0.01	0.02	0.03	_	311	311	0.01	0.05	0.28	—

3.7. Building 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	_	—	—	-	-	—	—	-	—	—	-	—	—	—	—	—	—	_
Daily, Summer (Max)	—	_	-	_	-	_	_	-	_	_	_	—	_	—	_	_	-	-
Off-Road Equipmen		0.63	17.2	28.2	0.03	0.17	—	0.17	0.17	—	0.17	—	2,603	2,603	0.11	0.02	_	2,612
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.63	17.2	28.2	0.03	0.17	-	0.17	0.17	_	0.17	-	2,603	2,603	0.11	0.02	-	2,612
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.17	4.77	7.85	0.01	0.05	-	0.05	0.05	_	0.05	-	723	723	0.03	0.01	-	726
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Annual	_	_	_	-	-	_	_	-	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.87	1.43	< 0.005	0.01	—	0.01	0.01	-	0.01	_	120	120	< 0.005	< 0.005	-	120
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	_
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)	_		_	_	-	_	_	-		-	_	_	_	_	-	-	_	_
Worker	0.46	0.42	0.39	6.79	0.00	0.00	1.06	1.06	0.00	0.25	0.25	-	1,171	1,171	0.05	0.04	4.65	—
Vendor	0.04	0.02	0.88	0.27	0.01	0.01	0.21	0.23	0.01	0.06	0.07	-	776	776	0.02	0.12	2.19	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Daily, Winter (Max)	—		—	—	—		_	-		-	—	_	_	—	-	-	_	—
Worker	0.43	0.39	0.46	5.14	0.00	0.00	1.06	1.06	0.00	0.25	0.25	—	1,076	1,076	0.05	0.04	0.12	—
Vendor	0.03	0.02	0.92	0.28	0.01	0.01	0.21	0.23	0.01	0.06	0.07	—	777	777	0.02	0.12	0.06	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	—
Average Daily	-	-	-	—	—	-	-	-	—	—	-	-	—	-	—	—	-	-
Worker	0.12	0.11	0.13	1.50	0.00	0.00	0.29	0.29	0.00	0.07	0.07	_	303	303	0.01	0.01	0.56	_
Vendor	0.01	0.01	0.26	0.08	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	_	216	216	< 0.005	0.03	0.26	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Annual	-	_	_	_	_	-	_	_	-	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.02	0.27	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	50.2	50.2	< 0.005	< 0.005	0.09	_
Vendor	< 0.005	< 0.005	0.05	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	35.7	35.7	< 0.005	0.01	0.04	_
Hauling	0.00	0.00	0.00	0.00	0.00	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

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		0.63	17.2	28.2	0.05	0.17	—	0.17	0.17		0.17	—	4,818	4,818	0.20	0.04	—	4,834
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.63	17.2	28.2	0.05	0.17	—	0.17	0.17	—	0.17	-	4,818	4,818	0.20	0.04	-	4,834
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.14	3.86	6.36	0.01	0.04	_	0.04	0.04		0.04	-	1,084	1,084	0.04	0.01	_	1,088
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.71	1.16	< 0.005	0.01	_	0.01	0.01	_	0.01	-	180	180	0.01	< 0.005	-	180
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	-
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)			_	_	_	-	-	-	-	_	_		_		-	_	-	
Worker	0.44	0.36	0.36	6.28	0.00	0.00	1.06	1.06	0.00	0.25	0.25	-	1,147	1,147	0.05	0.04	4.21	—
Vendor	0.03	0.02	0.84	0.26	0.01	0.01	0.21	0.23	0.01	0.06	0.07	_	765	765	0.02	0.12	2.17	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Daily, Winter (Max)		_		_		-	_	-	—		_		_		-		-	
Worker	0.38	0.34	0.39	4.75	0.00	0.00	1.06	1.06	0.00	0.25	0.25	_	1,054	1,054	0.05	0.04	0.11	_

Vendor	0.03	0.02	0.88	0.27	0.01	0.01	0.21	0.23	0.01	0.06	0.07	_	765	765	0.02	0.12	0.06	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Average Daily	_	_	_	-	—	_	_	-	—	_	_	_	_	_	—	_	_	-
Worker	0.09	0.08	0.10	1.13	0.00	0.00	0.24	0.24	0.00	0.06	0.06	—	240	240	0.01	0.01	0.41	_
Vendor	0.01	< 0.005	0.20	0.06	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	172	172	< 0.005	0.03	0.21	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	_
Annual	—	_	—	_	_	_	_	—	—	_	_	-	-	-	-	_	-	-
Worker	0.02	0.01	0.02	0.21	0.00	0.00	0.04	0.04	0.00	0.01	0.01	-	39.8	39.8	< 0.005	< 0.005	0.07	_
Vendor	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	28.5	28.5	< 0.005	< 0.005	0.04	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_

3.11. Paving (2025) - Unmitigated

			/	<u>,</u>		/	· · ·		,		/							
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	—	0.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.23	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	_	0.72	_	_	_	_		_	_		_	_	_	_	_	_		_

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.39	0.58	< 0.005	< 0.005	_	< 0.005	< 0.005	—	< 0.005	-	82.8	82.8	< 0.005	< 0.005	-	83.1
Paving	_	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	—
Annual	_	_	_	_	_	_	_	_	-	-	-	_	_	_	_	-	_	—
Off-Road Equipmen		< 0.005	0.07	0.11	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	13.7	13.7	< 0.005	< 0.005	_	13.8
Paving	_	0.01	-	-	_	_	_	_	_	_	_	-	_	_	_	_	-	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	—
Offsite	_	_	_	_	_	_	_	_	-	-	-	_	_	_	_	-	_	—
Daily, Summer (Max)				_	_		_	_		_		_	-	—		_	—	-
Worker	0.08	0.07	0.07	1.16	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Daily, Winter (Max)	_	_		—	-	-	_	-	_	_	_	_	-	-	_	-	_	-
Worker	0.07	0.06	0.07	0.88	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	194	194	0.01	0.01	0.02	-
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
Average Daily		_	_	—	—	_	_	—	—	_	_	—		—	—	_	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	-	10.8	10.8	< 0.005	< 0.005	0.02	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.79	1.79	< 0.005	< 0.005	< 0.005	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_

3.13. Architectural Coating (2025) - Unmitigated

			,	J ,			.,		j ,	, ji ioi							1	
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	_	48.2			_													_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	—
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		48.2	_	_	_		_					_			_		_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—
Average Daily	_	—	—	_	-	—	—	_	_	—	—	—	_	_	—	_	—	—

Off-Road Equipmen		< 0.005	0.08	0.07	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	9.76	9.76	< 0.005	< 0.005	-	9.79
Architect		2.64																
ural Coatings	_	2.64	_				_	_		_	_			_		_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	—
Annual	-	—	-	-	—	—	-	—	—	—	—	-	—	—	—	-	-	—
Off-Road Equipmen		< 0.005	0.01	0.01	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	1.62	1.62	< 0.005	< 0.005	-	1.62
Architect ural Coatings	_	0.48	_	_	_	-	_	-	_	_	-	_	-	-	_	_	-	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.07	0.07	1.26	0.00	0.00	0.21	0.21	0.00	0.05	0.05	_	229	229	0.01	0.01	0.84	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	_
Daily, Winter (Max)		_	_	_	_	_	_	-	_	_	_	_	—	_	_	_	_	_
Worker	0.08	0.07	0.08	0.95	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	211	211	0.01	0.01	0.02	—
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	—
Average Daily	—	_		-	_	_		-	_	_	_	_	_	—	_		_	_
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.7	11.7	< 0.005	< 0.005	0.02	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	_
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.94	1.94	< 0.005	< 0.005	< 0.005	_
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	-
Hauling	0.00	0.00	0.00	0.00	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

		· · · ·	·	<i>J</i> , <i>J</i>			· · ·		<u> </u>		/							
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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	—	_

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

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	—	—	—	—	—	—	—	—	—	—	—	—	_	—	—	—	—	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	—	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

13796 - Edgemont LDC (Construction) Detailed Report, 8/2/2023

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
Demolition	Demolition	6/3/2024	6/28/2024	5.00	20.0	20
Site Preparation	Site Preparation	7/1/2024	7/12/2024	5.00	10.0	10
Grading	Grading	7/15/2024	8/9/2024	5.00	20.0	20
Building Construction	Building Construction	8/12/2024	4/25/2025	5.00	185	230
Paving	Paving	3/31/2025	4/25/2025	5.00	20.0	20
Architectural Coating	Architectural Coating	3/31/2025	4/25/2025	5.00	20.0	20

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Interim	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Interim	1.00	8.00	33.0	0.73
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	84.0	0.37
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Interim	1.00	8.00	36.0	0.38
Grading	Crawler Tractors	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Interim	5.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Interim	2.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Interim	2.00	8.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Interim	2.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	5.00	8.00	84.0	0.37
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	Тгір Туре	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	0.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	2.00	10.2	HHDT,MHDT
Grading	Hauling	490	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	81.4	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	25.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	_	_	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	16.3	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
Demolition	_	_	_	_

Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	3.00	10.2	HHDT,MHDT
Demolition	Hauling	7.80	20.0	HHDT
Demolition	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	290,618	96,873	14,383

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)		Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	13,500	_
Site Preparation	—		35.0	0.00	_
Grading	78,331		50.0	0.00	_
Paving	0.00	0.00	0.00	0.00	5.50

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
Unrefrigerated Warehouse-No Rail	0.00	0%
Refrigerated Warehouse-No Rail	0.00	0%
Parking Lot	1.36	100%
Other Asphalt Surfaces	4.14	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	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres		Final Acres
5.18.1. Biomass Cover Type				
5.18.1.1. Unmitigated				
Biomass Cover Type	Initial Acres		Final Acres	

5.18.2. Sequestration

5.18.2.1. Unmitigated

Troo	Туре
nee	

Number

Electricity Saved (kWh/year)

Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

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

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	98.7
AQ-PM	64.4
AQ-DPM	63.8
Drinking Water	66.9
Lead Risk Housing	99.0
Pesticides	26.7
Toxic Releases	79.9
Traffic	84.3
Effect Indicators	
CleanUp Sites	83.0
Groundwater	14.5
Haz Waste Facilities/Generators	57.5
Impaired Water Bodies	0.00
Solid Waste	66.7
Sensitive Population	
Asthma	69.2
Cardio-vascular	84.9
Low Birth Weights	93.6
Socioeconomic Factor Indicators	
Education	93.7
Housing	89.1
Linguistic	79.2
Poverty	98.0

Unemployment	98.1
--------------	------

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	4.067753112
Employed	10.67624791
Median HI	6.351854228
Education	—
Bachelor's or higher	5.504940331
High school enrollment	18.45245733
Preschool enrollment	9.547029385
Transportation	—
Auto Access	24.53483896
Active commuting	49.46747081
Social	—
2-parent households	16.55331708
Voting	0.20531246
Neighborhood	—
Alcohol availability	38.88104709
Park access	28.17913512
Retail density	72.02617734
Supermarket access	45.07891698
Tree canopy	0.757089696
Housing	—
Homeownership	15.87321956

13796 - Edgemont LDC (Construction) Detailed Report, 8/2/2023

Housing habitability	7.570896959
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	4.311561658
Uncrowded housing	6.172205826
Health Outcomes	_
Insured adults	6.454510458
Arthritis	29.1
Asthma ER Admissions	33.3
High Blood Pressure	15.4
Cancer (excluding skin)	89.7
Asthma	2.1
Coronary Heart Disease	19.3
Chronic Obstructive Pulmonary Disease	4.4
Diagnosed Diabetes	9.0
Life Expectancy at Birth	80.6
Cognitively Disabled	62.4
Physically Disabled	43.7
Heart Attack ER Admissions	40.6
Mental Health Not Good	1.3
Chronic Kidney Disease	10.6
Obesity	0.5
Pedestrian Injuries	78.3
Physical Health Not Good	1.5
Stroke	11.3
Health Risk Behaviors	—
Binge Drinking	85.2
Current Smoker	1.2

No Leisure Time for Physical Activity	1.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	1.2
Elderly	96.7
English Speaking	23.5
Foreign-born	67.9
Outdoor Workers	17.3
Climate Change Adaptive Capacity	—
Impervious Surface Cover	88.6
Traffic Density	83.2
Traffic Access	55.9
Other Indices	-
Hardship	97.3
Other Decision Support	—
2016 Voting	2.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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. b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected. 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Data for schedule provided by client Building, Paving, and Architectural Coating overlap to present a conservative analysis
Construction: Off-Road Equipment	T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases Standard 8 hours work days Tier 4 Interim applied to construction equipment over 100 HP
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Construction: Dust From Material Movement	—

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APPENDIX 4.2:

CALEEMOD WAREHOUSE OPERATIONAL EMISSIONS MODEL OUTPUTS



13796 - Edgemont LDC (Operations Warehouse) 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

- 4.3.2. Unmitigated
- 4.4. Water Emissions by Land Use
 - 4.4.2. Unmitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.2. 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	13796 - Edgemont LDC (Operations Warehouse)
Operational Year	2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.920178, -117.279269
County	Riverside-South Coast
City	Moreno Valley
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5531
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use	e Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrige Warehou	erated use-No Rail	145	1000sqft	3.34	145,309	0.00			

Parking Lot	151	Space	1.36	0.00	0.00	—	—	—
Other Asphalt Surfaces	4.14	Acre	4.14	0.00	0.00			—
User Defined Industrial	145	User Defined Unit	0.00	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

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.	2.21	5.22	9.11	15.7	0.09	0.20	3.65	3.85	0.19	0.96	1.15	138	10,925	11,063	14.3	1.36	27.9	11,855
Daily, Winter (Max)	—	_		_	_	_	—	_	_	_	—	_	_	—	_	_	—	—
Unmit.	1.05	4.14	9.44	8.28	0.09	0.19	3.65	3.84	0.19	0.96	1.14	138	10,798	10,936	14.3	1.37	0.72	11,702
Average Daily (Max)	—	—		-	_	—	_	_	_	-	_	-	—	_	_	_	_	-
Unmit.	1.56	4.65	7.22	10.7	0.07	0.16	2.67	2.83	0.16	0.70	0.86	138	8,409	8,547	14.3	1.05	8.81	9,224
Annual (Max)	_	-	_	_		_	_	_	_		_	_	_	_	_		_	—
Unmit.	0.28	0.85	1.32	1.95	0.01	0.03	0.49	0.52	0.03	0.13	0.16	22.8	1,392	1,415	2.36	0.17	1.46	1,527

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

2.5. Operations Emissions by Sector, Unmitigated

Sintonia	i onatai	10,00	y 101 aai			aan, ana	01100 (10/ 449 10	r aany, n	, i i / y i i O i	annaarj							
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	1.01	0.81	8.31	8.74	0.09	0.13	3.65	3.78	0.13	0.96	1.09	-	9,103	9,103	0.18	1.20	27.9	9,491
Area	1.12	4.37	0.05	6.32	< 0.005	0.01	—	0.01	0.01	—	0.01	-	26.0	26.0	< 0.005	< 0.005	_	26.1
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	-	1,577	1,577	0.14	0.01	_	1,584
Water	_	—	_	—	—	—	—	—	—	—	—	64.4	218	283	6.62	0.16	_	496
Waste	_	—	_	—	-	-	-	-	-	-	_	73.6	0.00	73.6	7.36	0.00	-	258
Total	2.21	5.22	9.11	15.7	0.09	0.20	3.65	3.85	0.19	0.96	1.15	138	10,925	11,063	14.3	1.36	27.9	11,855
Daily, Winter (Max)		-	_	-	_	_	_	_	-	-	_	_	-	_	-	_	—	_
Mobile	0.97	0.77	8.70	7.65	0.08	0.13	3.65	3.79	0.13	0.96	1.09	—	9,002	9,002	0.18	1.20	0.72	9,364
Area	—	3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	1,577	1,577	0.14	0.01	—	1,584
Water	—	—	—	—	—	—	—	—	—	—	—	64.4	218	283	6.62	0.16	—	496
Waste	_	—	—	—	—	—	—	—	—	—	—	73.6	0.00	73.6	7.36	0.00	—	258
Total	1.05	4.14	9.44	8.28	0.09	0.19	3.65	3.84	0.19	0.96	1.14	138	10,798	10,936	14.3	1.37	0.72	11,702
Average Daily	_	—	_	-	-	_	-	_	-	_	-	_	-	_	_	-	-	_
Mobile	0.71	0.56	6.43	5.74	0.06	0.10	2.67	2.77	0.09	0.70	0.79	—	6,596	6,596	0.13	0.88	8.81	6,869
Area	0.77	4.04	0.04	4.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	17.8	17.8	< 0.005	< 0.005	—	17.9
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	-	0.06	0.06	_	0.06	-	1,577	1,577	0.14	0.01	—	1,584
Water	_	—	_	-	—	_	-	-	—	_	_	64.4	218	283	6.62	0.16	—	496
Waste	_	—	_	_	—	_	_	_	—	_	_	73.6	0.00	73.6	7.36	0.00	_	258
Total	1.56	4.65	7.22	10.7	0.07	0.16	2.67	2.83	0.16	0.70	0.86	138	8,409	8,547	14.3	1.05	8.81	9,224
Annual	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

Mobile	0.13	0.10	1.17	1.05	0.01	0.02	0.49	0.51	0.02	0.13	0.14	—	1,092	1,092	0.02	0.15	1.46	1,137
Area	0.14	0.74	0.01	0.79	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.95	2.95	< 0.005	< 0.005	—	2.96
Energy	0.01	0.01	0.14	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	-	261	261	0.02	< 0.005	—	262
Water	—	-	-	_	-	—	_	—	—	_	—	10.7	36.2	46.8	1.10	0.03	_	82.1
Waste	—	—	—	_	_	—	—	—	—	_	—	12.2	0.00	12.2	1.22	0.00	_	42.6
Total	0.28	0.85	1.32	1.95	0.01	0.03	0.49	0.52	0.03	0.13	0.16	22.8	1,392	1,415	2.36	0.17	1.46	1,527

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

			-	<i>J</i> , <i>J</i>		,					· · · ·							
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)		-		—		—	_	_	_		_				_	_		_
Unrefrige rated Warehou se-No Rail	0.33	0.19	7.98	2.23	0.07	0.13	2.38	2.51	0.12	0.64	0.76		7,753	7,753	0.13	1.16	23.0	8,125
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.67	0.62	0.33	6.51	0.01	0.01	1.27	1.28	0.01	0.32	0.33		1,350	1,350	0.05	0.03	4.85	1,366
Total	1.01	0.81	8.31	8.74	0.09	0.13	3.65	3.78	0.13	0.96	1.09	_	9,103	9,103	0.18	1.20	27.9	9,491

13796 - Edgemont LDC (Operations Warehouse) Detailed Report, 7/18/2023

Daily, Winter (Max)		_	-	_	_	-	_	-	_	-		-	_	_	_	_	-	
Unrefrige rated Warehou se-No Rail	0.32	0.18	8.33	2.25	0.07	0.13	2.38	2.51	0.12	0.64	0.76		7,755	7,755	0.13	1.16	0.60	8,105
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.64	0.59	0.37	5.40	0.01	0.01	1.27	1.28	0.01	0.32	0.33	-	1,247	1,247	0.05	0.04	0.13	1,259
Total	0.97	0.77	8.70	7.65	0.08	0.13	3.65	3.79	0.13	0.96	1.09	_	9,002	9,002	0.18	1.20	0.72	9,364
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.04	0.02	1.12	0.30	0.01	0.02	0.32	0.33	0.02	0.08	0.10		939	939	0.02	0.14	1.20	983
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.09	0.08	0.05	0.75	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	-	153	153	0.01	< 0.005	0.25	155
Total	0.13	0.10	1.17	1.05	0.01	0.02	0.49	0.51	0.02	0.13	0.14	_	1,092	1,092	0.02	0.15	1.46	1,137

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	CO	SO2	PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	-	—	—	—	-	_	—	_	—	—	-	—	—	—	-	-
Unrefrige rated Warehou se-No Rail		-			_		_	_					639	639	0.06	0.01	_	642
Parking Lot	_	_	-	-	-	_	-	-	-	-	-	-	49.5	49.5	< 0.005	< 0.005	-	49.8
Other Asphalt Surfaces		-	_		_	-	-	_	_	_	—	-	0.00	0.00	0.00	0.00	-	0.00
User Defined Industrial		-				-	-	-	—	-	—	—	0.00	0.00	0.00	0.00	-	0.00
Total	_	-	_	_	_	_	_	_	_	_	_	_	688	688	0.07	0.01	_	692
Daily, Winter (Max)		-	_	_	-	-	-	-	-	-	-	-	_	-	_	-	_	_
Unrefrige rated Warehou se-No Rail		_		_	_		_	_	_	_		_	639	639	0.06	0.01	_	642
Parking Lot	—	—	—	—	-	-	-	-	-	-	-	-	49.5	49.5	< 0.005	< 0.005	—	49.8
Other Asphalt Surfaces		_	-	-	_	-	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00

User Defined Industrial					_	-		_	_	-	-	-	0.00	0.00	0.00	0.00	-	0.00
Total	_	—	—	—	—	—	—	—	—	—	—	—	688	688	0.07	0.01	—	692
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail													106	106	0.01	< 0.005		106
Parking Lot	_	—	—	—	—	-	—	_	—	—	-	-	8.20	8.20	< 0.005	< 0.005	-	8.25
Other Asphalt Surfaces	_					_				_	_	_	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial	_					_			—	_		_	0.00	0.00	0.00	0.00	-	0.00
Total	_	—	—	—	—	—	—	—	_	_	—	_	114	114	0.01	< 0.005	—	115

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—		—	—	—	—	—	_	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06		0.06	0.06		0.06	_	889	889	0.08	< 0.005	_	892
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	_	0.00	0.00	0.00	0.00	_	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	-	0.00
Total	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	889	889	0.08	< 0.005	—	892
Daily, Winter (Max)	_	_	_	_	-	-	—	_	_	_	_	-	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	_	0.06	_	889	889	0.08	< 0.005	_	892
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	-	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00		0.00	0.00	0.00	0.00	-	0.00
Total	0.08	0.04	0.75	0.63	< 0.005	0.06	-	0.06	0.06	_	0.06	_	889	889	0.08	< 0.005	_	892
Annual	_	—	—	—	_	_	—	_	—	—	—	—	—	—	—	—	_	—
Unrefrige rated Warehou se-No Rail	0.01	0.01	0.14	0.11	< 0.005	0.01	_	0.01	0.01	_	0.01	_	147	147	0.01	< 0.005		148
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	-	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00		0.00	-	0.00	0.00	0.00	0.00	-	0.00
Total	0.01	0.01	0.14	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	147	147	0.01	< 0.005	—	148

4.3. Area Emissions by Source

4.3.2. Unmitigated

																1		
Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)		—	—	_	-	_	—	—	—	—	_	—	_	—	—	_	_	_
Consum er Products		3.13	—		—	_	_	_	_	—		_	_	_	_	_		_
Architect ural Coatings		0.20	_		_	_	_	_	_	_		_	_	_	_	_		_
Landsca pe Equipme nt	1.12	1.04	0.05	6.32	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.0	26.0	< 0.005	< 0.005		26.1
Total	1.12	4.37	0.05	6.32	< 0.005	0.01	-	0.01	0.01	—	0.01	-	26.0	26.0	< 0.005	< 0.005	—	26.1
Daily, Winter (Max)		_	-	_	_	_	_	-	_	—	_	_	_	-	_	-	_	_
Consum er Products		3.13	_		—	_	_	_	_	_		—	_	_	_	_		_
Architect ural Coatings		0.20	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	—
Total	_	3.33	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_

13796 - Edgemont LDC (Operations Warehouse) Detailed Report, 7/18/2023

Annual	_	—	—	_	—	_	_	_	—	—	—	—	—	—	—	—	_	—
Consum er Products	—	0.57	_	_		—	—											
Architect ural Coatings	—	0.04	_	_		—	—							_				
Landsca pe Equipme nt	0.14	0.13	0.01	0.79	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.95	2.95	< 0.005	< 0.005		2.96
Total	0.14	0.74	0.01	0.79	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.95	2.95	< 0.005	< 0.005	_	2.96

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

		· · · ·	, ,	<i>J J</i>	1	,		-	3 7		/							
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)	—	-	-	_							—							—
Unrefrige rated Warehou se-No Rail												64.4	218	283	6.62	0.16		496
Parking Lot		—	_	—	—	—						0.00	0.00	0.00	0.00	0.00		0.00
Other Asphalt Surfaces		_	_									0.00	0.00	0.00	0.00	0.00		0.00
User Defined Industrial		_	_	_		_		_				0.00	0.00	0.00	0.00	0.00		0.00

13796 - Edgemont LDC (Operations Warehouse) Detailed Report, 7/18/2023

Total — Daily, — Winter (Max)	_	-	-	—	_	_					611	1.718	283	6.62	10 16		106
Winter	-							_	_	_	64.4	218	200	0.02	0.16		496
· · ·		_	_	_	_	_		_	_		_	_	_	_	_		_
Unrefrige — rated Warehou se-No Rail		_		_							64.4	218	283	6.62	0.16		496
Parking — Lot	—	—	—	—	_	—	—	_	_	_	0.00	0.00	0.00	0.00	0.00	—	0.00
Other — Asphalt Surfaces	_	_	_	_							0.00	0.00	0.00	0.00	0.00		0.00
User — Defined Industrial	_	_	_	_							0.00	0.00	0.00	0.00	0.00		0.00
Total —	—	—	—	—	—	—	—	—	—	—	64.4	218	283	6.62	0.16	—	496
Annual —	_	—	—	—	—	—	—	_	—	—	—	—	—	—	—	—	—
Unrefrige — rated Warehou se-No Rail		_									10.7	36.2	46.8	1.10	0.03		82.1
Parking — Lot	—	—	—	—	_	—	—	_	_	_	0.00	0.00	0.00	0.00	0.00	—	0.00
Other — Asphalt Surfaces	_	_	_	_							0.00	0.00	0.00	0.00	0.00		0.00
User — Defined Industrial	_	_	_	_							0.00	0.00	0.00	0.00	0.00		0.00
Total —	_	_	_	_	_	_	_	_	_	_	10.7	36.2	46.8	1.10	0.03	_	82.1

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

			<u>,</u>	.,, . .		and and			••••, •••,									
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)	—	_	-	-	_	_	—	_		_		—	_	-	_	_	_	-
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_				73.6	0.00	73.6	7.36	0.00	_	258
Parking Lot	—	-	-	—	—	—	-	-	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	_	_	-	-	_	_	-		_	_	0.00	0.00	0.00	0.00	0.00		0.00
User Defined Industrial	—	—	—	_	—	—	_	_		_		0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	73.6	0.00	73.6	7.36	0.00	—	258
Daily, Winter (Max)	_	-	_	_	_	_	—	—	_	—	_	—	_	_	_	—	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_						73.6	0.00	73.6	7.36	0.00	_	258
Parking Lot	_	—	_	-	-	_	-	_	—	_	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces		-	-	-	-	-		_	-			0.00	0.00	0.00	0.00	0.00		0.00
User Defined Industrial	_	—	-	-	-	-		_	_			0.00	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_	_	_	_	_	_	73.6	0.00	73.6	7.36	0.00	_	258
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail												12.2	0.00	12.2	1.22	0.00		42.6
Parking Lot	—	—	_	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	_	—	-	_	-	-	—	_	_	_		0.00	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial		—	_	_	_	_			_	_		0.00	0.00	0.00	0.00	0.00		0.00
Total	—	_	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.6

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)	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
Total	_		_		_	_	_			_	_		_		_			_

13796 - Edgemont LDC (Operations Warehouse) Detailed Report, 7/18/2023

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG				PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	_	_	_	—	_	—		_	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)		_			_											_		
Total	_	_	—	_	_	—	—	—	—	—	_	_	—	—	—	_	—	—
Annual	_	_	_	_	_	_	—	—	_		_	_	_	_	_	_	_	—
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetatio 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

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	—	—	—	—	—	_	_	—	_	_		_	_	—	—	—
Total	—	—	—	—	_	—	—	—		_	—	—	—	—	—	—	—	—
Daily, Winter (Max)																		—
Total	—	—	—	—		_	—	—		—	—	—	—	—	—	—	—	—
Annual	_	_	_	_	_	_	_	_		_	_	_		_	_	_	_	_
Total	_	_	_	_		_	_	_		_	_	_		_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants	(lb/day for	daily, ton	/yr for annual) and GHGs ((lb/day for dai	ly, MT/yr for annual)
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ontonia	i onatai		j rer dan	., .o., j.			0.100 (.		, aany, n	, y	annaan							
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 ered	_	—	—	—		—	—	—	-	—	_	-	—	—	-	—	—	—
Subtotal	_	-	_	-	_	_	_	-	_	_	_	_	-	_	-	-	-	_
Remove d	_	_	_	_	_	_	_	_	—	_	—	_	_	_	—	_	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-	_	—	—	-	—	—	-	_	_	—	_	_	_	—	_	_	_	—
Annual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Avoided	-	-	-	-	-	-	-	-	-	_	_	-	-	-	-	-	-	—
Subtotal	-	-	-	-	—	-	-	-	_	—	_	-	-	-	-	-	-	_

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
—	—	—	_	_	_	—	_	—	_	_	—	_	—	_	—	—	—	_

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	89.9	7.85	3.05	24,019	2,733	238	92.7	729,923
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	162	13.9	5.67	43,264	1,827	157	63.9	487,728

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	Non-Residential Exterior Area Coated	Parking Area Coated (sq ft)
		(sq ft)	(sq ft)	

		0	0.00	217,964	72,655	14,383
--	--	---	------	---------	--------	--------

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	668,763	349	0.0330	0.0040	2,774,266
Parking Lot	51,857	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	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)
Unrefrigerated Warehouse-No Rail	33,602,706	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	137	<u> </u>
Parking Lot	0.00	
Other Asphalt Surfaces	0.00	_
User Defined Industrial	0.00	

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type Equipment Type Ref	Refrigerant GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
5.16.2. Process Boilers	S					
Equipment Type	Fuel Type	Number	Boiler	Rating (MMBtu/hr)	Daily Heat Input (MMBtu/d	ay) Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type		Fuel Type	
5.18. Vegetation			
5.18.1. Land Use Change			
5.18.1.1. Unmitigated			
Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
5.18.1. Biomass Cover Type			
5.18.1.1. Unmitigated			
Biomass Cover Type	Initial Acres	Final Acres	
5.18.2. Sequestration			
5.18.2.1. Unmitigated			
Тгее Туре	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 Res	esult for Project Location	Unit
--------------------	----------------------------	------

Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	98.7
AQ-PM	64.4
AQ-DPM	63.8
Drinking Water	66.9
Lead Risk Housing	99.0
28	/ 33

26.7
2011
79.9
84.3
—
83.0
14.5
57.5
0.00
66.7
—
69.2
84.9
93.6
—
93.7
89.1
79.2
98.0
98.1

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	4.067753112
Employed	10.67624791
Median HI	6.351854228

Education	-
Bachelor's or higher	5.504940331
High school enrollment	18.45245733
Preschool enrollment	9.547029385
Transportation	_
Auto Access	24.53483896
Active commuting	49.46747081
Social	_
2-parent households	16.55331708
Voting	0.20531246
Neighborhood	_
Alcohol availability	38.88104709
Park access	28.17913512
Retail density	72.02617734
Supermarket access	45.07891698
Tree canopy	0.757089696
Housing	_
Homeownership	15.87321956
Housing habitability	7.570896959
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	4.311561658
Uncrowded housing	6.172205826
Health Outcomes	
Insured adults	6.454510458
Arthritis	29.1
Asthma ER Admissions	33.3
High Blood Pressure	15.4

Cancer (excluding skin)	89.7
Asthma	2.1
Coronary Heart Disease	19.3
Chronic Obstructive Pulmonary Disease	4.4
Diagnosed Diabetes	9.0
Life Expectancy at Birth	80.6
Cognitively Disabled	62.4
Physically Disabled	43.7
Heart Attack ER Admissions	40.6
Mental Health Not Good	1.3
Chronic Kidney Disease	10.6
Obesity	0.5
Pedestrian Injuries	78.3
Physical Health Not Good	1.5
Stroke	11.3
Health Risk Behaviors	—
Binge Drinking	85.2
Current Smoker	1.2
No Leisure Time for Physical Activity	1.1
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	1.2
Elderly	96.7
English Speaking	23.5
Foreign-born	67.9
Outdoor Workers	17.3

Climate Change Adaptive Capacity	_
Impervious Surface Cover	88.6
Traffic Density	83.2
Traffic Access	55.9
Other Indices	
Hardship	97.3
Other Decision Support	
2016 Voting	2.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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.

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Data for schedule provided by client Building, Paving, and Architectural Coating overlap to present a conservative analysis
Construction: Off-Road Equipment	T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases Standard 8 hours work days Tier 4 Interim applied to construction equipment over 100 HP
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Trip Generation assessment.
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113

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APPENDIX 4.3:

CALEEMOD HIGH-CUBE COLD STORAGE OPERATIONAL EMISSIONS MODEL OUTPUTS



13796 - Edgemont LDC (Operations High-Cube Cold Storage) 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
 - 4.3.2. Unmitigated
- 4.4. Water Emissions by Land Use
 - 4.4.2. Unmitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.2. 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	13796 - Edgemont LDC (Operations High-Cube Cold Storage)
Operational Year	2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.920178, -117.279269
County	Riverside-South Coast
City	Moreno Valley
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5531
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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	48.4	1000sqft	1.11	48,436	0.00			

User Defined	48.4	User Defined Unit	0.00	0.00	0.00	 	_
Industrial							

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
On/iviit.	100	RUG	NOX		302	FIVITUE	FINITUD	FINITUT	FIVIZ.JE	FIVIZ.5D	F IVIZ.01	BC02	NDC02	0021	0114	1120	IN .	0028
Daily, Summer (Max)	_	_	-	-	-	-	-	_	-	_	_	_	_	-	_	-	_	_
Unmit.	0.84	1.81	3.49	6.11	0.03	0.08	1.45	1.53	0.08	0.38	0.46	46.0	4,743	4,789	4.86	0.46	61.2	5,110
Daily, Winter (Max)	_	_	-	_	_	_	_	_	-	—	_	_	_	_	_	_	_	_
Unmit.	0.45	1.45	3.61	3.55	0.03	0.08	1.45	1.53	0.07	0.38	0.46	46.0	4,693	4,739	4.86	0.47	49.7	5,049
Average Daily (Max)	_	_	_	_	_	_	—	—	—	—	_	_	_	—	_	_	_	_
Unmit.	0.65	1.65	3.24	4.64	0.03	0.07	1.27	1.34	0.07	0.33	0.40	46.0	4,290	4,336	4.85	0.41	53.8	4,634
Annual (Max)	_	—	_	_	_	—	_	_	_	_	_	_	-	_	_	-	-	-
Unmit.	0.12	0.30	0.59	0.85	0.01	0.01	0.23	0.24	0.01	0.06	0.07	7.62	710	718	0.80	0.07	8.91	767

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	0.43	0.35	3.12	3.71	0.03	0.05	1.45	1.50	0.05	0.38	0.43	—	3,239	3,239	0.06	0.40	11.8	3,371
Area	0.37	1.44	0.02	2.11	< 0.005	< 0.005	-	< 0.005	< 0.005	—	< 0.005	—	8.66	8.66	< 0.005	< 0.005	—	8.69
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	-	0.03	0.03	—	0.03	—	1,423	1,423	0.13	0.01	—	1,430
Water	-	—	_	—	_	_	-	_	_	—	—	21.5	72.8	94.3	2.21	0.05	_	165
Waste	—	—	—	—	—	—	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	—	85.8
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.4	49.4
Total	0.84	1.81	3.49	6.11	0.03	0.08	1.45	1.53	0.08	0.38	0.46	46.0	4,743	4,789	4.86	0.46	61.2	5,110
Daily, Winter (Max)	_	—	_	-	-	—	—	-		—	-		_		_	_		-
Mobile	0.41	0.34	3.27	3.26	0.03	0.05	1.45	1.50	0.05	0.38	0.43	—	3,198	3,198	0.07	0.40	0.31	3,319
Area	_	1.10	—	—	—	—	_	—	—	_	—	_	—	—	—	—	_	—
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,423	1,423	0.13	0.01	_	1,430
Water	—	—	—	—	—	—	—	—	—	—	—	21.5	72.8	94.3	2.21	0.05	—	165
Waste	—	_	—	—	—	—	_	—	—	—	—	24.5	0.00	24.5	2.45	0.00	_	85.8
Refrig.	—	_	—	—	—	—	_	—	—	—	—	_	—	—	—	—	49.4	49.4
Total	0.45	1.45	3.61	3.55	0.03	0.08	1.45	1.53	0.07	0.38	0.46	46.0	4,693	4,739	4.86	0.47	49.7	5,049
Average Daily	-	_	_	—		_	_	_	-	-	—	-	—	—	—	-	-	—
Mobile	0.36	0.29	2.88	2.91	0.03	0.04	1.27	1.31	0.04	0.33	0.37	—	2,788	2,788	0.06	0.35	4.45	2,898
Area	0.26	1.33	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	_	5.93	5.93	< 0.005	< 0.005	_	5.95
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03	_	1,423	1,423	0.13	0.01	_	1,430
Water	_	_	_	-	—	_	_	—	_	_	—	21.5	72.8	94.3	2.21	0.05	_	165
Waste	-	_		-	_	_	_	_	_	_	_	24.5	0.00	24.5	2.45	0.00	_	85.8
Refrig.	_	_	_	_	_	_	_	_	_	_	_		_	_	_	_	49.4	49.4
Total	0.65	1.65	3.24	4.64	0.03	0.07	1.27	1.34	0.07	0.33	0.40	46.0	4,290	4,336	4.85	0.41	53.8	4,634

Annual	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-
Mobile	0.07	0.05	0.53	0.53	< 0.005	0.01	0.23	0.24	0.01	0.06	0.07	—	462	462	0.01	0.06	0.74	480
Area	0.05	0.24	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.98	0.98	< 0.005	< 0.005	—	0.99
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	236	236	0.02	< 0.005	—	237
Water	-	—	—	-	—	—	—	—	—	—	—	3.55	12.1	15.6	0.37	0.01	—	27.4
Waste	_	_	_	-	_	_	_	_	_	-	_	4.06	0.00	4.06	0.41	0.00	_	14.2
Refrig.	-	_	_	-	_	_	_	_	_	-	_	_	_	_	_	_	8.17	8.17
Total	0.12	0.30	0.59	0.85	0.01	0.01	0.23	0.24	0.01	0.06	0.07	7.62	710	718	0.80	0.07	8.91	767

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

		· ·	5	31 3		, ,	· · ·		,		,							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)		-	-	_	—	-	_		—		—		—			_	_	—
Refrigera ted Warehou se-No Rail	0.15	0.10	2.99	1.06	0.03	0.05	0.93	0.98	0.05	0.25	0.30		2,689	2,689	0.04	0.38	9.86	2,815
User Defined Industrial	0.27	0.25	0.14	2.65	0.01	< 0.005	0.52	0.52	< 0.005	0.13	0.13		550	550	0.02	0.01	1.98	557
Total	0.43	0.35	3.12	3.71	0.03	0.05	1.45	1.50	0.05	0.38	0.43	—	3,239	3,239	0.06	0.40	11.8	3,371
Daily, Winter (Max)		-	-	_	_	_	_											—

Refrigera Warehous Rail		0.10	3.12	1.06	0.03	0.05	0.93	0.98	0.05	0.25	0.30	—	2,690	2,690	0.04	0.39	0.26	2,806
User Defined Industrial	0.26	0.24	0.15	2.20	0.01	< 0.005	0.52	0.52	< 0.005	0.13	0.13		508	508	0.02	0.01	0.05	513
Total	0.41	0.34	3.27	3.26	0.03	0.05	1.45	1.50	0.05	0.38	0.43	-	3,198	3,198	0.07	0.40	0.31	3,319
Annual	_	—	—	_	—	—	_	—	_	_	-	-	_	-	-	_	-	_
Refrigera ted Warehou se-No Rail	0.02	0.02	0.50	0.17	< 0.005	0.01	0.15	0.16	0.01	0.04	0.05	_	388	388	0.01	0.06	0.61	405
User Defined Industrial	0.04	0.04	0.02	0.36	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.02		74.1	74.1	< 0.005	< 0.005	0.12	75.0
Total	0.07	0.05	0.53	0.53	< 0.005	0.01	0.23	0.24	0.01	0.06	0.07	_	462	462	0.01	0.06	0.74	480

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	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	_	_	_	_		_	_	_	_	_	_	_	1,012	1,012	0.10	0.01	_	1,018
User Defined Industrial	_								_				0.00	0.00	0.00	0.00		0.00

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Total	_	_	_	_	_	—	_	_	_	—	_	_	1,012	1,012	0.10	0.01	_	1,018
Daily, Winter (Max)	—	_									_		_	—	_	-		—
Refrigera ted Warehou se-No Rail													1,012	1,012	0.10	0.01		1,018
User Defined Industrial	_	_									_		0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,012	1,012	0.10	0.01	—	1,018
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	_	—
Refrigera ted Warehou se-No Rail													168	168	0.02	< 0.005		168
User Defined Industrial		_								_			0.00	0.00	0.00	0.00		0.00
Total	—	—	—	-	—	—	—	—	—	—	—	—	168	168	0.02	< 0.005	—	168

4.2.3. Natural Gas Emissions By Land Use - 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)	-		—			—		—	—	—	—	—	—			—	—	—

Image and and and any series Image and any series I																			
effect image image <t< td=""><td>Refrigera ted Warehou se-No Rail</td><td>0.04</td><td>0.02</td><td>0.34</td><td>0.29</td><td>< 0.005</td><td>0.03</td><td></td><td>0.03</td><td>0.03</td><td></td><td>0.03</td><td></td><td>411</td><td>411</td><td>0.04</td><td>< 0.005</td><td>-</td><td>412</td></t<>	Refrigera ted Warehou se-No Rail	0.04	0.02	0.34	0.29	< 0.005	0.03		0.03	0.03		0.03		411	411	0.04	< 0.005	-	412
aity finite final	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
initial field	Total	0.04	0.02	0.34	0.29	< 0.005	0.03	—	0.03	0.03	—	0.03	—	411	411	0.04	< 0.005	—	412
$ \frac{1}{4 \text{ are boly}} = \frac{1}{2} \left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	Daily, Winter (Max)	—	_	_	_		-	-	_	-	_	-	-	_	_	_	-	_	-
efficient distance is	Refrigera ted Warehou se-No Rail	0.04	0.02	0.34	0.29	< 0.005	0.03		0.03	0.03	_	0.03		411	411	0.04	< 0.005		412
nual	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
effigers 0.01 < 0.005 0.06 0.05 < 0.005 < 0.005 < 0.005 < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 - < 0.005 < 0.005 - < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005	Total	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03	_	411	411	0.04	< 0.005	_	412
ad Jack No all Image: No all No all Image: No all No all No all Image: No all No	Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
efined dustrial and a set of the	Refrigera ted Warehou se-No Rail	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	_	68.0	68.0	0.01	< 0.005	_	68.2
otal 0.01 < 0.005 0.06 0.05 < 0.005 < 0.005 < 0.005 - < 0.005 - 68.0 68.0 0.01 < 0.005 - 68.2	User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00	-	0.00
	Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	68.0	68.0	0.01	< 0.005	_	68.2

4.3. Area Emissions by Source

4.3.2. Unmitigated

ontonia			y lor dai	.,, . . ,.			01100 (1		,,	11791 101								
Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	—	-	_	_	_	-	—	_	-	_	—	—	-	-	—	-
Consum er Products		1.04	—	-		—	-	-	-		—			—	—	—	-	_
Architect ural Coatings	—	0.06		_		_	_	_	—		_				_	_	_	_
Landsca pe Equipme nt	0.37	0.35	0.02	2.11	< 0.005	< 0.005	_	< 0.005	< 0.005		< 0.005		8.66	8.66	< 0.005	< 0.005	_	8.69
Total	0.37	1.44	0.02	2.11	< 0.005	< 0.005	—	< 0.005	< 0.005	-	< 0.005	-	8.66	8.66	< 0.005	< 0.005	—	8.69
Daily, Winter (Max)	_	_	_	-		_	-	-	_	_	-	_	-	_	-	-	_	_
Consum er Products	_	1.04	_	-		_	-	-	-	_	-	_	_	_	-	-	-	_
Architect ural Coatings	_	0.06	_	_		_	-	-	—		_		_		_	_	_	_
Total	-	1.10	-	-	-	—	—	—	—	-	—	-	—	-	—	_	—	—
Annual	-	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	_
Consum er Products	_	0.19		_		_	_	_	_		_		_		_	_	_	_
Architect ural Coatings	_	0.01	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Landsca pe Equipme	0.05	0.04	< 0.005	0.26	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	_	0.98	0.98	< 0.005	< 0.005		0.99
Total	0.05	0.24	< 0.005	0.26	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	0.98	0.98	< 0.005	< 0.005	—	0.99

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

entena		110 (10) 00	,	., .o., j.		,	(6, aay 10.	j ,		annaan							
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												21.5	72.8	94.3	2.21	0.05		165
User Defined Industrial		_	_	-	_	—	_				_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	—	—	—	—	—	—	—	—	—	—	21.5	72.8	94.3	2.21	0.05	—	165
Daily, Winter (Max)	—	-	-	-	_	_	_				_	-	_	-	_	-	_	_
Refrigera ted Warehou se-No Rail		_	_	_	_	_		_	_		_	21.5	72.8	94.3	2.21	0.05	_	165
User Defined Industrial		_	_	_	_	_	_				_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	—	_		_	—	21.5	72.8	94.3	2.21	0.05	_	165

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	_
Refrigera ted Warehou se-No Rail		_					_					3.55	12.1	15.6	0.37	0.01		27.4
User Defined Industrial		—										0.00	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_	_	_	_	_	_	3.55	12.1	15.6	0.37	0.01	_	27.4

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Land Use Daily,	TOG —	ROG		со —	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т —	CH4 —	N2O —	R 	CO2e —
Summer (Max)																		
Refrigera ted Warehou se-No Rail		_	_		_		_		_	_	_	24.5	0.00	24.5	2.45	0.00		85.8
User Defined Industrial		_	_		_		_	_	_	_	_	0.00	0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	—	85.8
Daily, Winter (Max)	_	_	_	_	_	_	_	_	—	—		_			_	_		_

Refrigera ted Warehou se-No		_		—								24.5	0.00	24.5	2.45	0.00		85.8
User Defined Industrial		_	_	-	_			_	_	_		0.00	0.00	0.00	0.00	0.00	_	0.00
Total	—	_	—	—	—	_	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	_	85.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigera ted Warehou se-No Rail		_		_	_			_	_	_		4.06	0.00	4.06	0.41	0.00		14.2
User Defined Industrial			_	_	_			_	_	_		0.00	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_		_	_	_	_	4.06	0.00	4.06	0.41	0.00	_	14.2

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 Warehou se-No Rail	_	_		_		_	_				_		_				49.4	49.4
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	49.4	49.4

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Daily, Winter (Max)		_																_
Refrigera ted Warehou se-No Rail	_		_	_	_			_	_			_					49.4	49.4
Total	_	—	—	—	—	—	—	—	—	—	—	—	—	_	—	—	49.4	49.4
Annual	_	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigera ted Warehou se-No Rail			_	_	_		_	_	_		_		_	_		_	8.17	8.17
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	8.17	8.17

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type	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	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_

	·	Total		_	_			_	_											
--	---	-------	--	---	---	--	--	---	---	--	--	--	--	--	--	--	--	--	--	--

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

		· · · ·		<i>,</i> , <i>,</i>			· · ·		,		· · · · ·							
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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. 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	—	—	_	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	_	_	_	—	_	_	—	_	_	_	—	—	_	_	_	_	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annua	Criteria Pollutants	(lb/day for dail	y, ton/yr for annual) and GHGs (lb/da	y 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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual		_	_	_	_	_		—		_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_		_		_	_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	—	—	—	_	_	_	—	—	_	—	—	—	—	—	—	_	—	—

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

			,	<i>J</i> ,		.,		e, e.e.j .e.	,,,,	, j								
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 ered	_		_	_	_	_	_	_	_		_	_	_	_		_		
Subtotal	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_

13796 - Edgemont LDC (Operations High-Cube Cold Storage) Detailed Report, 7/18/2023

Remove	_	_	_	_	_	—	_	—	_	_	_	_	_	_	_	_	_	_
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	38.0	21.2	20.3	12,080	1,070	597	572	339,808
User Defined Industrial	66.0	36.9	35.4	20,980	744	416	399	236,517

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	72,654	24,218	

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	1,059,274	349	0.0330	0.0040	1,281,668
User Defined Industrial	0.00	349	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	11,200,825	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	45.5	—
User Defined Industrial	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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 Num	ımber per Day Hour	urs Per Day H	lorsepower	Load Factor
--	--------------------	---------------	------------	-------------

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment	Туре	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
	Process Deiler	-					
5.16.2. P	rocess Boilers	S					

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

5.17. User Defined

Equipment Type		Fuel Type	
_		_	
5.18. Vegetation			
5.18.1. Land Use Change			
5.18.1.1. Unmitigated			
Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
5.18.1. Biomass Cover Type			
5.18.1.1. Unmitigated			
Biomass Cover Type	Initial Acres	Final Acres	
5.18.2. Sequestration			
5.18.2.1. Unmitigated			
Тгее Туре	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
	_		

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard Result for Project Location Unit	
---	--

Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	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 ³/₄ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard Exposure Score S		Sensitivity Score	Adaptive Capacity Score	Vulnerability Score	
Temperature and Extreme Heat	3	0	0	N/A	
Extreme Precipitation	N/A	N/A	N/A	N/A	
Sea Level Rise	1	0	0	N/A	
Wildfire	1	0	0	N/A	
Flooding	N/A	N/A	N/A	N/A	
Drought	N/A	N/A	N/A	N/A	
Snowpack Reduction	N/A	N/A	N/A	N/A	
Air Quality Degradation	0	0	0	N/A	

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard Exposure Score		Sensitivity Score	Adaptive Capacity Score	Vulnerability Score	
Temperature and Extreme Heat	3	1	1	3	
Extreme Precipitation	N/A	N/A	N/A	N/A	
Sea Level Rise	1	1	1	2	
Wildfire	1	1	1	2	
Flooding	N/A	N/A	N/A	N/A	
Drought	N/A	N/A	N/A	N/A	
Snowpack Reduction	N/A	N/A	N/A	N/A	
Air Quality Degradation	1	1	1	2	

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	98.7
AQ-PM	64.4
AQ-DPM	63.8
Drinking Water	66.9
Lead Risk Housing	99.0
26	/ 31

Pesticides	26.7
Toxic Releases	79.9
Traffic	84.3
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	14.5
Haz Waste Facilities/Generators	57.5
Impaired Water Bodies	0.00
Solid Waste	66.7
Sensitive Population	—
Asthma	69.2
Cardio-vascular	84.9
Low Birth Weights	93.6
Socioeconomic Factor Indicators	_
Education	93.7
Housing	89.1
Linguistic	79.2
Poverty	98.0
Unemployment	98.1

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	4.067753112		
Employed	10.67624791		
Median HI	6.351854228		

Education	
Bachelor's or higher	5.504940331
High school enrollment	18.45245733
Preschool enrollment	9.547029385
Transportation	_
Auto Access	24.53483896
Active commuting	49.46747081
Social	-
2-parent households	16.55331708
Voting	0.20531246
Neighborhood	
Alcohol availability	38.88104709
Park access	28.17913512
Retail density	72.02617734
Supermarket access	45.07891698
Tree canopy	0.757089696
Housing	
Homeownership	15.87321956
Housing habitability	7.570896959
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	4.311561658
Uncrowded housing	6.172205826
Health Outcomes	
Insured adults	6.454510458
Arthritis	29.1
Asthma ER Admissions	33.3
High Blood Pressure	15.4

89.7
2.1
19.3
4.4
9.0
80.6
62.4
43.7
40.6
1.3
10.6
0.5
78.3
1.5
11.3
85.2
1.2
1.1
0.0
0.0
1.2
96.7
23.5
67.9
17.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	88.6
Traffic Density	83.2
Traffic Access	55.9
Other Indices	—
Hardship	97.3
Other Decision Support	—
2016 Voting	2.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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.

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Trip Generation assessment.
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively.

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APPENDIX 4.4:

CALEEMOD WAREHOUSE OPERATIONAL LSTS EMISSIONS MODEL OUTPUTS



13796 - Edgemont LDC (Operational LSTs Warehouse) 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

- 4.3.2. Unmitigated
- 4.4. Water Emissions by Land Use
 - 4.4.2. Unmitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.2. 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	13796 - Edgemont LDC (Operational LSTs Warehouse)
Operational Year	2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.920178, -117.279269
County	Riverside-South Coast
City	Moreno Valley
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5531
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use	e Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrige Warehou	erated use-No Rail	145	1000sqft	3.34	145,309	0.00			

Parking Lot	151	Space	1.36	0.00	0.00	—	_	_
Other Asphalt Surfaces	4.14	Acre	4.14	0.00	0.00	—		—
User Defined Industrial	145	User Defined Unit	0.00	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

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.	1.77	4.93	1.83	8.65	0.01	0.07	0.04	0.11	0.07	0.01	0.08	138	2,016	2,154	14.2	0.20	0.23	2,570
Daily, Winter (Max)	—	_	-	-	_		_	_	_	_	_	_		_	_	_	_	_
Unmit.	0.61	3.86	1.83	2.50	0.01	0.06	0.04	0.10	0.06	0.01	0.07	138	1,991	2,129	14.2	0.21	0.01	2,544
Average Daily (Max)	—		-	_			-	-	_	_	-	_		_	_	_		_
Unmit.	1.24	4.44	1.56	6.33	0.01	0.07	0.03	0.09	0.06	0.01	0.07	138	1,956	2,094	14.2	0.20	0.07	2,506
Annual (Max)	-	_	_	-	_	_	_	_	-	_	_	_	_	_	_	_	_	_
Unmit.	0.23	0.81	0.28	1.15	< 0.005	0.01	< 0.005	0.02	0.01	< 0.005	0.01	22.8	324	347	2.34	0.03	0.01	415

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

2.5. Operations Emissions by Sector, Unmitigated

Sector	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
	IUG	KUG	NOX		302	PIVITUE	PINITUD	PIVITUT	PIVIZ.3E	PIVIZ.5D	P1v12.51	BC02	NBC02	0021	6П4	N2O	ĸ	COZe
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Nobile	0.56	0.52	1.03	1.70	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	-	194	194	0.05	0.04	0.23	206
Area	1.12	4.37	0.05	6.32	< 0.005	0.01	_	0.01	0.01	—	0.01	-	26.0	26.0	< 0.005	< 0.005	_	26.1
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	—	0.06	-	1,577	1,577	0.14	0.01	_	1,584
Water	_	—	_	—	—	_	_	—	—	—	—	64.4	218	283	6.62	0.16	_	496
Waste	-	-	_	-	-	_	_	-	-	—	-	73.6	0.00	73.6	7.36	0.00	-	258
Total	1.77	4.93	1.83	8.65	0.01	0.07	0.04	0.11	0.07	0.01	0.08	138	2,016	2,154	14.2	0.20	0.23	2,570
Daily, Winter (Max)	_	_	_	-	_	_	_	_	_	-	_	—	_	—	_	_	—	-
Mobile	0.53	0.49	1.08	1.88	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	195	195	0.05	0.04	0.01	207
Area	—	3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	1,577	1,577	0.14	0.01	—	1,584
Water	—	—	—	—	—	—	—	—	—	—	—	64.4	218	283	6.62	0.16	—	496
Waste	—	—	—	—	—	—	—	—	—	—	—	73.6	0.00	73.6	7.36	0.00	—	258
Total	0.61	3.86	1.83	2.50	0.01	0.06	0.04	0.10	0.06	0.01	0.07	138	1,991	2,129	14.2	0.21	0.01	2,544
Average Daily	—	—	-	—	_	_	—	—	—	—	_	_	—	—	—	—	—	
Mobile	0.38	0.35	0.77	1.37	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	-	142	142	0.04	0.03	0.07	151
Area	0.77	4.04	0.04	4.33	< 0.005	0.01	—	0.01	0.01	—	0.01	-	17.8	17.8	< 0.005	< 0.005	—	17.9
Energy	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	—	0.06	-	1,577	1,577	0.14	0.01	-	1,584
Nater	_	_	_	_	-	_	_	_	_	-	_	64.4	218	283	6.62	0.16	_	496
Naste	_	_	_	_	_	_	_	_	_	_	_	73.6	0.00	73.6	7.36	0.00	_	258
Total	1.24	4.44	1.56	6.33	0.01	0.07	0.03	0.09	0.06	0.01	0.07	138	1,956	2,094	14.2	0.20	0.07	2,506
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Mobile	0.07	0.06	0.14	0.25	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	23.5	23.5	0.01	< 0.005	0.01	25.0
Area	0.14	0.74	0.01	0.79	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.95	2.95	< 0.005	< 0.005	—	2.96
Energy	0.01	0.01	0.14	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	261	261	0.02	< 0.005	—	262
Water	_	—	_	—	—	—	—	—	—	—	—	10.7	36.2	46.8	1.10	0.03	—	82.1
Waste	_	_	_	-	—	—	—	-	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.6
Total	0.23	0.81	0.28	1.15	< 0.005	0.01	< 0.005	0.02	0.01	< 0.005	0.01	22.8	324	347	2.34	0.03	0.01	415

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	_	-	_	_		_			_	_	_		_	-	_	_
Unrefrige rated Warehou se-No Rail	0.08	0.05	0.93	0.67	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01		145	145	0.02	0.02	0.14	153
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.48	0.47	0.09	1.03	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	49.2	49.2	0.02	0.01	0.08	53.4
Total	0.56	0.52	1.03	1.70	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	194	194	0.05	0.04	0.23	206

13796 - Edgemont LDC (Operational LSTs Warehouse) Detailed Report, 7/19/2023

Daily, Winter (Max)		-	-	_	—	_	_	_	_	-		_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.08	0.05	0.98	0.70	< 0.005	< 0.005	0.01	0.02	< 0.005	< 0.005	0.01		147	147	0.02	0.02	< 0.005	155
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.45	0.44	0.10	1.18	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01		47.8	47.8	0.03	0.01	< 0.005	52.1
Total	0.53	0.49	1.08	1.88	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	195	195	0.05	0.04	0.01	207
Annual	-	—	—	-	—	-	-	-	_	-	_	-	_	—	—	-	—	-
Unrefrige rated Warehou se-No Rail	0.01	0.01	0.13	0.09	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		17.7	17.7	< 0.005	< 0.005	0.01	18.6
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	0.06	0.06	0.01	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	5.82	5.82	< 0.005	< 0.005	< 0.005	6.34
Total	0.07	0.06	0.14	0.25	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	_	23.5	23.5	0.01	< 0.005	0.01	25.0

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants	(lb/day for dai	y, ton/yr for annual) and GHGs (lb/da	ay for daily, MT/yr for annual)
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Land	TOG	ROG	NOx	CO	SO2	PM10E		-	_	PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use Daily, Summer (Max)		-	_				_	-				-	-	_	_		_	_
Unrefrige rated Warehou se-No Rail		-		_	-	_	-	-				-	639	639	0.06	0.01	-	642
Parking Lot	_	-	-	-	-	-	-	-	-	-	-	-	49.5	49.5	< 0.005	< 0.005	-	49.8
Other Asphalt Surfaces			—	—		—	-	_	_	—	_	-	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial			-	-		-	-	-	—			-	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	-	_	_	_	_	_	_	_	688	688	0.07	0.01	_	692
Daily, Winter (Max)	_	-	-	-	_	-	-	-	—	_	-	-	-	-	-	-	-	_
Unrefrige rated Warehou se-No Rail		_	_	_	-	_	_	_	_			_	639	639	0.06	0.01	_	642
Parking Lot	_	-	_	-	-	-	_	_	_	_	_	_	49.5	49.5	< 0.005	< 0.005	—	49.8
Other Asphalt Surfaces	—	-	-	-	_	-	-	-	_		_	-	0.00	0.00	0.00	0.00	-	0.00

User Defined Industrial												-	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	688	688	0.07	0.01	_	692
Annual	_	—	—	—	—	_	—	—	—	_	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail													106	106	0.01	< 0.005		106
Parking Lot	_	—	_	_	—	—	_	_	—	_	_	-	8.20	8.20	< 0.005	< 0.005	—	8.25
Other Asphalt Surfaces	_	_			_							_	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial		_		_	_				_		_	_	0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	114	114	0.01	< 0.005	—	115

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	—	—	—	—	—	—	—	—	—	—	—	_	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06		0.06	0.06		0.06		889	889	0.08	< 0.005		892
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	_	0.00		0.00	0.00	0.00	0.00		0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Total	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	_	0.06	—	889	889	0.08	< 0.005	_	892
Daily, Winter (Max)		_	—	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	_	0.06	_	889	889	0.08	< 0.005	_	892
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00		0.00	0.00	0.00	0.00	-	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00	_	0.00
Total	0.08	0.04	0.75	0.63	< 0.005	0.06	_	0.06	0.06	—	0.06	_	889	889	0.08	< 0.005	_	892
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail	0.01	0.01	0.14	0.11	< 0.005	0.01		0.01	0.01		0.01	_	147	147	0.01	< 0.005		148
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	_	0.00	0.00	0.00	0.00	—	0.00

User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00		0.00
Total	0.01	0.01	0.14	0.11	< 0.005	0.01	-	0.01	0.01	—	0.01	_	147	147	0.01	< 0.005	—	148

4.3. Area Emissions by Source

4.3.2. Unmitigated

				iy, ton/yi														
Source	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Consum er Products	_	3.13	_	_	_	_	—	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings		0.20		_	—	_	_	_	_	_	_	_	_	_	_	_		_
Landsca pe Equipme nt	1.12	1.04	0.05	6.32	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.0	26.0	< 0.005	< 0.005		26.1
Total	1.12	4.37	0.05	6.32	< 0.005	0.01	-	0.01	0.01	_	0.01	_	26.0	26.0	< 0.005	< 0.005	—	26.1
Daily, Winter (Max)	_	-	_		-	_	_	_	—	-	_	-	_	-	-	—	_	_
Consum er Products		3.13		—	—	_	_	_	_	_	_	_	_	_	_	_		_
Architect ural Coatings	—	0.20	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total		3.33	_			_	_	_		_	_	_	_	_	_	_		_

13796 - Edgemont LDC (Operational LSTs Warehouse) Detailed Report, 7/19/2023

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Products	—	0.57	_	_			—											—
Architect ural Coatings		0.04	_	_			—											_
Landsca pe Equipme nt	0.14	0.13	0.01	0.79	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005		2.95	2.95	< 0.005	< 0.005		2.96
Total	0.14	0.74	0.01	0.79	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.95	2.95	< 0.005	< 0.005	—	2.96

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

				5. 5		,			,		,							
Land Use	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	-	-	-							—							-
Unrefrige rated Warehou se-No Rail		_										64.4	218	283	6.62	0.16		496
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces		_	_	_	_							0.00	0.00	0.00	0.00	0.00		0.00
User Defined Industrial	—		_	_								0.00	0.00	0.00	0.00	0.00		0.00

13796 - Edgemont LDC (Operational LSTs Warehouse) Detailed Report, 7/19/2023

Total — — — Daily, — —	- —	—			_												
					_	_	_	_	-	—	64.4	218	283	6.62	0.16	_	496
Winter (Max)		_	_				_		_							_	
Unrefrige — — rated Warehou se-No Rail		_	_		_		_	_	_	_	64.4	218	283	6.62	0.16	_	496
Parking — — Lot	- –	—	-		_	_	-	_	—	—	0.00	0.00	0.00	0.00	0.00	_	0.00
Other — — Asphalt Surfaces		_			_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
User — — Defined Industrial		-				_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total — —	- —	—	-	-	_		—	_	—		64.4	218	283	6.62	0.16	_	496
Annual — —	- –	_	_	-	_	_	_	_	—		—	—		—	_	_	
Unrefrige — — rated Warehou se-No Rail			-				_	_	_		10.7	36.2	46.8	1.10	0.03	_	82.1
Parking — —		_		-			_	_			0.00	0.00	0.00	0.00	0.00	_	0.00
Other — — Asphalt Surfaces		-	_			_	_		—		0.00	0.00	0.00	0.00	0.00	_	0.00
User — — Defined Industrial		-				_	—		_		0.00	0.00	0.00	0.00	0.00		0.00
											10.7	36.2	46.8	1.10	0.03		82.1

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

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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)	—	_		_	_	-	_			_	_	—	-	_	_	-	—	-
Unrefrige rated Warehou se-No Rail		_		_	_	_						73.6	0.00	73.6	7.36	0.00	_	258
Parking Lot	_	_	—	-	_	-	_	_	_	—	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Other Asphalt Surfaces		-		-	_	_	_				_	0.00	0.00	0.00	0.00	0.00	_	0.00
User Defined Industrial	_	—	_	-	-	—	—	—				0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	73.6	0.00	73.6	7.36	0.00	—	258
Daily, Winter (Max)	—	_	_	_	_	_	_	_		_		—	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail			—	—				—				73.6	0.00	73.6	7.36	0.00		258
Parking Lot	—	-	—	_	_	-	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	-	0.00

Other Asphalt Surfaces		-	-	-		-						0.00	0.00	0.00	0.00	0.00	-	0.00
User Defined Industrial	_	-	-	-		-			-	_		0.00	0.00	0.00	0.00	0.00	-	0.00
Total	—	_	_	—	_	_	_	_	_	—	_	73.6	0.00	73.6	7.36	0.00	—	258
Annual	—	—	—	—	_	—	_	—	—	—	_	_	—	—	—	—	—	—
Unrefrige rated Warehou se-No Rail		_	_									12.2	0.00	12.2	1.22	0.00		42.6
Parking Lot	—	—	—	-	_	—	—	_	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces			_			_	_		_		_	0.00	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial		_	_	_		_			_	_		0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	—	_	_	_	_	—	_	_	12.2	0.00	12.2	1.22	0.00	_	42.6

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	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—
Total	_		_	_	_	_	_				_				_		_	_

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

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

		_ ` ·		<i>J</i> , <i>J</i>			· · ·				/							
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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Equipme nt Type	TOG	ROG				PM10E			PM2.5E			BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	—	—	—	_	—	—	—	_	—	_	—		—		_	—	_
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)		_						_										—
Total	—	—	—	_	_	—	—	—	—	—	—	_	—	—	—	_	—	_
Annual	—	—	_	_	_	—	—	—	—		_	_		_	_	_	—	_
Total		_	_	_	_	_		—			_	_		_		_	_	_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

Vegetatio 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	—	—	—	—	_	—	—	—	—	—	—	—	_	—	—	—		—
Annual	_		_	_	_	_	_	_		_	_	_	_	_	_	_		_
Total	—	_	_	_	_	_	_	—	_	_	_	_	_	_	_	_		_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	-		—							—	—	-					—	—
Total	—		—	_	—	_	—	_	_	—	—	—	_	_	_	_	—	—
Daily, Winter (Max)	_										_							_
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

ontonia			,	y, ton yr			\	6/ aay 101	J ,	11/ 91 101	,							
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 ered	_	—	—	—	—			—		—		—	—	—		—	_	—
Subtotal		—	—	-	—	_	_	—	—	—	—	-	—	_	_	—	—	—
Remove d		—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—
Subtotal		—	—	—	—	—	—	—	_	—	—	_	—	—	—	—	_	—
—		—	—	-	—	_	_	—	—	—	—	-	—	_	_	—	—	—
Annual	_	-	-	-	-	—	_	—	—	-	—	-	-	—	-	-	-	_
Avoided		-	-	-	-	_	-	_	_	-	_	-	-	_	-	-	-	—
Subtotal		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	_

13796 - Edgemont LDC (Operational LSTs Warehouse) Detailed Report, 7/19/2023

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	-	—	—
Remove d	-	-	-	-	-	-	_	_	-	-	-	-	-	-	_	-		-
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
—	—	—	_	_	_	—	—	—	—	-	_	-	_	—	—	_	_	_

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	89.9	7.85	3.05	24,019	17.1	1.49	0.58	4,564
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
User Defined Industrial	162	13.9	5.67	43,264	30.8	2.65	1.08	8,220

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	Non-Residential Exterior Area Coated	Parking Area Coated (sq ft)
		(sq ft)	(sq ft)	

13796 - Edgemont LDC (Operational LSTs Warehouse) Detailed Report, 7/19/2023

0 0.00	217,964	72,655	14,383
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5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	668,763	349	0.0330	0.0040	2,774,266
Parking Lot	51,857	349	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00
User Defined Industrial	0.00	349	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)
Unrefrigerated Warehouse-No Rail	33,602,706	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	137	<u> </u>
Parking Lot	0.00	_
Other Asphalt Surfaces	0.00	_
User Defined Industrial	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type Equipment Type Ref	Refrigerant GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Hc	orsepower	Load Factor
5.16.2. Process Boiler	S						
Equipment Type	Fuel Type	Number	Boiler Ra	ting (MMBtu/hr)	Daily Heat Ir	nput (MMBtu/day) Ar	nual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type		Fuel Type —	
5.18. Vegetation			
5.18.1. Land Use Change			
5.18.1.1. Unmitigated			
Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
5.18.1. Biomass Cover Type			
5.18.1.1. Unmitigated			
Biomass Cover Type	Initial Acres	Final Acres	
5.18.2. Sequestration			
5.18.2.1. Unmitigated			
Тгее Туре	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
6. Climate Risk Detailed I	Report		

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
----------------	-----------------------------	------

Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	annual hectares burned

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	98.7
AQ-PM	64.4
AQ-DPM	63.8
Drinking Water	66.9
Lead Risk Housing	99.0
28	/ 33

Pesticides	26.7
Toxic Releases	79.9
Traffic	84.3
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	14.5
Haz Waste Facilities/Generators	57.5
Impaired Water Bodies	0.00
Solid Waste	66.7
Sensitive Population	_
Asthma	69.2
Cardio-vascular	84.9
Low Birth Weights	93.6
Socioeconomic Factor Indicators	—
Education	93.7
Housing	89.1
Linguistic	79.2
Poverty	98.0
Unemployment	98.1

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	4.067753112
Employed	10.67624791
Median HI	6.351854228

Education	_
Bachelor's or higher	5.504940331
High school enrollment	18.45245733
Preschool enrollment	9.547029385
Transportation	
Auto Access	24.53483896
Active commuting	49.46747081
Social	
2-parent households	16.55331708
Voting	0.20531246
Neighborhood	
Alcohol availability	38.88104709
Park access	28.17913512
Retail density	72.02617734
Supermarket access	45.07891698
Tree canopy	0.757089696
Housing	_
Homeownership	15.87321956
Housing habitability	7.570896959
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	4.311561658
Uncrowded housing	6.172205826
Health Outcomes	
Insured adults	6.454510458
Arthritis	29.1
Asthma ER Admissions	33.3
High Blood Pressure	15.4

89.7
2.1
19.3
4.4
9.0
80.6
62.4
43.7
40.6
1.3
10.6
0.5
78.3
1.5
11.3
85.2
1.2
1.1
0.0
0.0
1.2
96.7
23.5
67.9
17.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	88.6
Traffic Density	83.2
Traffic Access	55.9
Other Indices	—
Hardship	97.3
Other Decision Support	—
2016 Voting	2.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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.

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Construction: Construction Phases	Data for schedule provided by client Building, Paving, and Architectural Coating overlap to present a conservative analysis
Construction: Off-Road Equipment	T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases Standard 8 hours work days Tier 4 Interim applied to construction equipment over 100 HP
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Site Preparation, Grading, and Building Construction.
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip characteristics based on information provided in the Trip Generation assessment.
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113

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APPENDIX 4.5:

CALEEMOD HIGH-CUBE COLD STORAGE OPERATIONAL LSTS EMISSIONS MODEL OUTPUTS



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
 - 4.3.2. Unmitigated
- 4.4. Water Emissions by Land Use
 - 4.4.2. Unmitigated
- 4.5. Waste Emissions by Land Use
 - 4.5.2. 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	13796 - Edgemont LDC (Operational LSTs High-Cube Cold Storage)
Operational Year	2025
Lead Agency	
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50
Precipitation (days)	10.0
Location	33.920178, -117.279269
County	Riverside-South Coast
City	Moreno Valley
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5531
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.14

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	48.4	1000sqft	1.11	48,436	0.00			

User Defined	48.4	User Defined Unit	0.00	0.00	0.00	 _	
Industrial							

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
	100	ROG	NOX		302	PINITUE	PINITUD		PIVIZ.3E	PINZ.5D	P1VI2.51	BC02	INDCO2	0021		NZO	ĸ	COZe
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.64	1.68	0.73	3.08	< 0.005	0.03	0.02	0.05	0.03	< 0.005	0.03	46.0	1,576	1,622	4.81	0.08	49.5	1,815
Daily, Winter (Max)	_	—	_	_	_	—	_	_	_	—	_	_	_	_	_	_	_	_
Unmit.	0.25	1.32	0.73	1.04	< 0.005	0.03	0.02	0.04	0.03	< 0.005	0.03	46.0	1,568	1,614	4.81	0.08	49.4	1,807
Average Daily (Max)	_	—	-	_	_	—	_	_	_	—	_	—		—	_		—	_
Unmit.	0.48	1.53	0.69	2.39	< 0.005	0.03	0.01	0.04	0.03	< 0.005	0.03	46.0	1,564	1,610	4.81	0.08	49.4	1,803
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.09	0.28	0.13	0.44	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	7.62	259	267	0.80	0.01	8.18	298

2.5. Operations Emissions by Sector, Unmitigated

Sector TOG ROG NOX CO SO2 PM10E PM10D PM10T PM2.5E PM2.5D PM2.5T BCO2 NBCO2 CO2T CH4
--

Daily, Summer (Max)	_	_	_	_		_	_	_	_	-	_	-	_	-		_	_	_
Mobile	0.23	0.22	0.37	0.68	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	72.1	72.1	0.02	0.01	0.10	76.7
Area	0.37	1.44	0.02	2.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	8.66	8.66	< 0.005	< 0.005	—	8.69
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,423	1,423	0.13	0.01	—	1,430
Water	_	—	—	—	—	—	—	—	—	—	—	21.5	72.8	94.3	2.21	0.05	—	165
Waste	_	—	—	—	—	—	—	—	—	_	—	24.5	0.00	24.5	2.45	0.00	—	85.8
Refrig.	_	—	—	—	—	—	—	—	—	_	—	—	—	—	—	—	49.4	49.4
Total	0.64	1.68	0.73	3.08	< 0.005	0.03	0.02	0.05	0.03	< 0.005	0.03	46.0	1,576	1,622	4.81	0.08	49.5	1,815
Daily, Winter (Max)	—	_	—	_	_	-	_	—	_	—	_	_	—	—	_	_	_	—
Mobile	0.22	0.20	0.39	0.75	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	72.3	72.3	0.02	0.01	< 0.005	76.9
Area	—	1.10	—	_	—	_	-	_	—	—	—	—	—	—	—	—	_	_
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	—	0.03	0.03	—	0.03	—	1,423	1,423	0.13	0.01	—	1,430
Water	—	_	—	_	_	_	-	_	_	_	_	21.5	72.8	94.3	2.21	0.05	_	165
Waste	—	_	—	_	_	_	-	_	_	_	_	24.5	0.00	24.5	2.45	0.00	_	85.8
Refrig.	—	_	—	_	_	_	-	_	_	_	_	_	—	—	_	_	49.4	49.4
Total	0.25	1.32	0.73	1.04	< 0.005	0.03	0.02	0.04	0.03	< 0.005	0.03	46.0	1,568	1,614	4.81	0.08	49.4	1,807
Average Daily	_	—	_	-	-	-	_	-	-	_	-	-	—	_	-	-	-	_
Mobile	0.19	0.17	0.33	0.66	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	-	62.6	62.6	0.02	0.01	0.04	66.7
Area	0.26	1.33	0.01	1.44	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	5.93	5.93	< 0.005	< 0.005	-	5.95
Energy	0.04	0.02	0.34	0.29	< 0.005	0.03	-	0.03	0.03	-	0.03	-	1,423	1,423	0.13	0.01	-	1,430
Water	_	—	-	—	—	—	-	_	—	-	_	21.5	72.8	94.3	2.21	0.05	-	165
Waste	—	—	-	—	—	-	-	—	_	-	_	24.5	0.00	24.5	2.45	0.00	-	85.8
Refrig.	—	—	-	—	—	-	-	_	_	-	_	—	—	-	—	-	49.4	49.4
Total	0.48	1.53	0.69	2.39	< 0.005	0.03	0.01	0.04	0.03	< 0.005	0.03	46.0	1,564	1,610	4.81	0.08	49.4	1,803

Annual	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.03	0.03	0.06	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.4	10.4	< 0.005	< 0.005	0.01	11.0
Area	0.05	0.24	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	_	< 0.005	_	0.98	0.98	< 0.005	< 0.005	_	0.99
Energy	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	—	236	236	0.02	< 0.005	_	237
Water	-	—	-	-	—	—	—	—	—	—	—	3.55	12.1	15.6	0.37	0.01	_	27.4
Waste	-	—	-	-	—	—	—	—	—	—	—	4.06	0.00	4.06	0.41	0.00	_	14.2
Refrig.	_	—	_	-	_	_	_	_	_	_	_	_	_	_	_	_	8.17	8.17
Total	0.09	0.28	0.13	0.44	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	7.62	259	267	0.80	0.01	8.18	298

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 ted Warehou se-No Rail	0.04	0.03	0.33	0.26	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		52.0	52.0	0.01	0.01	0.07	54.9
User Defined Industrial	0.20	0.19	0.04	0.42	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	20.1	20.1	0.01	< 0.005	0.03	21.7
Total	0.23	0.22	0.37	0.68	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	—	72.1	72.1	0.02	0.01	0.10	76.7
Daily, Winter (Max)		_	_	_	-	_	_		-				_	—		_	_	_

Refrigera Warehous Rail		0.02	0.35	0.27	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	52.8	52.8	0.01	0.01	< 0.005	55.7
User Defined Industrial	0.18	0.18	0.04	0.48	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005		19.5	19.5	0.01	< 0.005	< 0.005	21.2
Total	0.22	0.20	0.39	0.75	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	-	72.3	72.3	0.02	0.01	< 0.005	76.9
Annual	_	-	_	_	_	_	-	-	_	_	-	-	—	-	_	_	_	-
Refrigera ted Warehou se-No Rail	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		7.54	7.54	< 0.005	< 0.005	< 0.005	7.96
Jser Defined ndustrial	0.03	0.03	0.01	0.08	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.82	2.82	< 0.005	< 0.005	< 0.005	3.08
Total	0.03	0.03	0.06	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	10.4	10.4	< 0.005	< 0.005	0.01	11.0

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	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	_	_	_	_		_	_	_	_	_	_	_	1,012	1,012	0.10	0.01	_	1,018
User Defined Industrial	_								_				0.00	0.00	0.00	0.00		0.00

Total	_	—	_	—	_	—	_	_	_	—	_	_	1,012	1,012	0.10	0.01	—	1,018
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_	_	_	_
Refrigera ted Warehou se-No Rail						_					_		1,012	1,012	0.10	0.01		1,018
User Defined Industrial		_		_									0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	1,012	1,012	0.10	0.01	—	1,018
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Refrigera ted Warehou se-No Rail				_									168	168	0.02	< 0.005		168
User Defined Industrial	—	_		_						_		—	0.00	0.00	0.00	0.00	_	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	_	168	168	0.02	< 0.005	—	168

4.2.3. Natural Gas Emissions By Land Use - 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	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03		411	411	0.04	< 0.005		412
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	0.00	0.00	0.00	_	0.00
Total	0.04	0.02	0.34	0.29	< 0.005	0.03	-	0.03	0.03	_	0.03	_	411	411	0.04	< 0.005	_	412
Daily, Winter (Max)	_	_	-	_	-	_	_	_		-	-	_	-	-	-	-	-	-
Refrigera ted Warehou se-No Rail	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03		411	411	0.04	< 0.005		412
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	-	0.00	_	0.00	0.00	0.00	0.00	-	0.00
Total	0.04	0.02	0.34	0.29	< 0.005	0.03	_	0.03	0.03	_	0.03	_	411	411	0.04	< 0.005	_	412
Annual	_	—	-	_	_	—	-	—	-	-	-	_	—	—	_	-	_	-
Refrigera ted Warehou se-No Rail	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	_	< 0.005	< 0.005		< 0.005		68.0	68.0	0.01	< 0.005		68.2
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	-	0.00	-	0.00	0.00	0.00	0.00	-	0.00
Total	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	68.0	68.0	0.01	< 0.005	_	68.2

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants	(lb/day for	[.] daily, ton/yr for ann	ual) and GHGs (lb/da	ay for daily, MT/yr for annual)
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Source	TOG	ROG	NOx		SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	-	—	-	—	—	—	-	-	-	—	—
Consum er Products	—	1.04	_	_		_	-	-	-	-	-	_	_	-	-	-	-	-
Architect ural Coatings	_	0.06				_	_	_	_	_	_			_	-	_	_	_
Landsca pe Equipme nt	0.37	0.35	0.02	2.11	< 0.005	< 0.005	-	< 0.005	< 0.005	-	< 0.005	-	8.66	8.66	< 0.005	< 0.005	-	8.69
Total	0.37	1.44	0.02	2.11	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	8.66	8.66	< 0.005	< 0.005	_	8.69
Daily, Winter (Max)	_	-	-			-	-	-	_	-	-	-	-	-	-	-	-	-
Consum er Products		1.04	-			-	-	-	-	-	-	-	-	-	-	-	-	-
Architect ural Coatings		0.06		_		_	_	-	-	_	-	-	_	_	_	_	_	-
Total	—	1.10	-	-	-	-	—	—	—	—	—	-	-	—	—	—	—	-
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products		0.19		_		_	_	_	_	_	_	-	_	_	_	_	_	-
Architect ural Coatings	_	0.01	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Landsca pe Equipme	0.05	0.04	< 0.005	0.26	< 0.005	< 0.005		< 0.005	< 0.005		< 0.005	_	0.98	0.98	< 0.005	< 0.005		0.99
Total	0.05	0.24	< 0.005	0.26	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	0.98	0.98	< 0.005	< 0.005	—	0.99

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

entena		110 (10) 00	,	., .o., j.		,	(6, aay 10.	j ,		annaan							
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												21.5	72.8	94.3	2.21	0.05		165
User Defined Industrial		_	_	-	_	—	_				_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	—	—	—	—	—	—	—	—	—	—	21.5	72.8	94.3	2.21	0.05	—	165
Daily, Winter (Max)	—	-	-	-	_	_	_				_	-	_	-	_	-	_	_
Refrigera ted Warehou se-No Rail		_	_	_	_	_		_	_		_	21.5	72.8	94.3	2.21	0.05	_	165
User Defined Industrial		_	_	_	_	_	_				_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	—	_		_	—	21.5	72.8	94.3	2.21	0.05	_	165

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	_
Refrigera ted Warehou se-No Rail			_	_				_	_		_	3.55	12.1	15.6	0.37	0.01	_	27.4
User Defined Industrial	—		—						—			0.00	0.00	0.00	0.00	0.00		0.00
Total	_		_	_		_	_	_	_	_	_	3.55	12.1	15.6	0.37	0.01	_	27.4

4.5. Waste Emissions by Land Use

4.5.2. 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		_	—			—	_	—	_			24.5	0.00	24.5	2.45	0.00		85.8
User Defined Industrial		_	_		-							0.00	0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	—	85.8
Daily, Winter (Max)		_	_		_											_		—

Refrigera ted Warehou se-No												24.5	0.00	24.5	2.45	0.00		85.8
User Defined Industrial			_			_			_		—	0.00	0.00	0.00	0.00	0.00		0.00
Total	—	—	—	—	—	—	—	—	—	—	—	24.5	0.00	24.5	2.45	0.00	—	85.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	_	—	_	—	—
Refrigera ted Warehou se-No Rail	_		_		_	_		_	_			4.06	0.00	4.06	0.41	0.00	_	14.2
User Defined Industrial												0.00	0.00	0.00	0.00	0.00		0.00
Total	_	_	_	_	_	_	_	_	_	_	_	4.06	0.00	4.06	0.41	0.00	—	14.2

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 Warehou se-No Rail		_	_	_			_	_	_	_	_	_	_	_	_		49.4	49.4
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	49.4	49.4

Daily, Winter (Max)	 —																_
Refrigera ted Warehou se-No Rail	 _	_		_	_	_	_	_				_				49.4	49.4
Total	 —	—	—	—	—	—	—	—		—	—	—	—	—	_	49.4	49.4
Annual	 —	—	—	—	—	—	—	_	—	—	—	—	—	—	_	—	—
Refrigera ted Warehou se-No Rail	 _	_	_	_	_	_	_	_		_	_	_		_	_	8.17	8.17
Total	 _	_	_	_	_	_		_	_	_	_	_		_		8.17	8.17

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Equipme nt Type		ROG			SO2	PM10E			PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_			—	—	—	—		_	—		_	—		—		_	—
Total	_	_	_	_	_	_	—	_	—	—	—	—	—	—	_	_	_	_
Daily, Winter (Max)																		
Total	_	_	_			_	_	_	_	_			_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_

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4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. 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	—	—	—	—	—	—	—	_	—	—	—	—	—	—	—	—	—	—
Total	_	_	_	_	_	_	_	_	_	_	_	_	—		_			_

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - 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)	_	_				_	—	_		—		—				_	—	_

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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Species	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	_	-	—	-	—	-	—	—	—	—	—	—	—	_	—	—	—	—
Sequest ered		—	-	_	_	—						—	-			—		_
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d		—	—	—	—	—	—	—	—	—	—	—	—	—	_	—	—	—
Subtotal	_	—	—	—	—	—	—	—			—	—	—	—	—	—		—
—	_	—	—	—	—	—	—	—	—	—	—	—	—	—	_	—	—	—
Daily, Winter (Max)			_	_	_						_		_					—
Avoided	—	—	—	—	—	—	—	—	_	—	_	—	—	_	—	—	—	—
Subtotal	_	_	—	_	_	—	_	_	_	—	_	_	_	_	_	-	_	—
Sequest ered		_	_	_		_	_	_				_	_	_		_		_
Subtotal	_	_	_	_	_	_	_	_			_	_	_	_	_	_		_

Remove	_			_	_	_			_		_				_	_	_	_
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	38.0	21.2	20.3	12,080	7.22	4.03	3.87	2,295
User Defined Industrial	66.0	36.9	35.4	20,980	12.5	7.01	6.72	3,986

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	72,654	24,218	_

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Refrigerated Warehouse-No Rail	1,059,274	349	0.0330	0.0040	1,281,668
User Defined Industrial	0.00	349	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	11,200,825	0.00
User Defined Industrial	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Refrigerated Warehouse-No Rail	45.5	_
User Defined Industrial	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
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 Fue	el Type E	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
5.16.2. Process Boilers	S					

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	
_		_	
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			
Тгее Туре	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	
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Temperature and Extreme Heat	26.2	annual days of extreme heat
Extreme Precipitation	2.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	5.74	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 ³/₄ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	3	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	
AQ-Ozone	98.7
AQ-PM	64.4
AQ-DPM	63.8
Drinking Water	66.9
Lead Risk Housing	99.0
26	/ 31

Pesticides	26.7
Toxic Releases	79.9
Traffic	84.3
Effect Indicators	—
CleanUp Sites	83.0
Groundwater	14.5
Haz Waste Facilities/Generators	57.5
Impaired Water Bodies	0.00
Solid Waste	66.7
Sensitive Population	_
Asthma	69.2
Cardio-vascular	84.9
Low Birth Weights	93.6
Socioeconomic Factor Indicators	—
Education	93.7
Housing	89.1
Linguistic	79.2
Poverty	98.0
Unemployment	98.1

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	4.067753112
Employed	10.67624791
Median HI	6.351854228

Education	—
Bachelor's or higher	5.504940331
High school enrollment	18.45245733
Preschool enrollment	9.547029385
Transportation	—
Auto Access	24.53483896
Active commuting	49.46747081
Social	—
2-parent households	16.55331708
Voting	0.20531246
Neighborhood	_
Alcohol availability	38.88104709
Park access	28.17913512
Retail density	72.02617734
Supermarket access	45.07891698
Tree canopy	0.757089696
Housing	—
Homeownership	15.87321956
Housing habitability	7.570896959
Low-inc homeowner severe housing cost burden	48.33825228
Low-inc renter severe housing cost burden	4.311561658
Uncrowded housing	6.172205826
Health Outcomes	_
Insured adults	6.454510458
Arthritis	29.1
Asthma ER Admissions	33.3
High Blood Pressure	15.4

Cancer (excluding skin)	89.7
Asthma	2.1
Coronary Heart Disease	19.3
Chronic Obstructive Pulmonary Disease	4.4
Diagnosed Diabetes	9.0
Life Expectancy at Birth	80.6
Cognitively Disabled	62.4
Physically Disabled	43.7
Heart Attack ER Admissions	40.6
Mental Health Not Good	1.3
Chronic Kidney Disease	10.6
Obesity	0.5
Pedestrian Injuries	78.3
Physical Health Not Good	1.5
Stroke	11.3
Health Risk Behaviors	_
Binge Drinking	85.2
Current Smoker	1.2
No Leisure Time for Physical Activity	1.1
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	1.2
Elderly	96.7
English Speaking	23.5
Foreign-born	67.9
Outdoor Workers	17.3

Climate Change Adaptive Capacity	—
Impervious Surface Cover	88.6
Traffic Density	83.2
Traffic Access	55.9
Other Indices	_
Hardship	97.3
Other Decision Support	_
2016 Voting	2.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	99.0
Healthy Places Index Score for Project Location (b)	1.00
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
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.

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on information provided in the Trip Generation assessment.
Operations: Fleet Mix	Passenger Car Mix estimated based on CalEEMod default fleet mix and the ratio of the vehicle classes (LDA, LDT1, LDT2, MDV, MCY). Truck Fleet Mix based on 2, 3 and 4 axle trucks
Operations: Architectural Coatings	SCAQMD Rule 1113
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively.

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APPENDIX 4.4:

EMFAC2021



Source: EMFAC2021 (v1.0.2) Emissions Inventory Region Type: Sub-Area Region: Riverside (SC) 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	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Gasoline	7.589475903	347.9694468	0.092180823	92.18082291	321404.9638	347.9694468	1967302.751	6.12	HHDT
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Diesel	14792.02338	1911347.779	313.0439759	313043.9759		1911347.779			
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Electricity	47.99547895	5148.201829	0	0		5148.201829			
Riverside (SC)	2024	HHDT	Aggregate	Aggregate	Natural Gas	740.0705237	50458.80082	8.268807048	8268.807048		50458.80082			
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Gasoline	469145.3818	20418129.53	688.4836596	688483.6596	700469.6115	20418129.53	22069128.65	31.51	LDA
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Diesel	1473.049219	54327.45303	1.267188759	1267.188759		54327.45303			
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Electricity	19934.69439	945704.6798	0	0		945704.6798			
Riverside (SC)	2024	LDA	Aggregate	Aggregate	Plug-in Hybrid	12893.65575	650966.9876	10.71876311	10718.76311		650966.9876			
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Gasoline	40643.24621	1523061.246	62.04624692	62046.24692	62104.32538	1523061.246	1529163.988	24.62	LDT1
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Diesel	18.16927182	339.6979643	0.013831102	13.83110227		339.6979643			
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Electricity	60.98632141	2789.967089	0	0		2789.967089			
Riverside (SC)	2024	LDT1	Aggregate	Aggregate	Plug-in Hybrid	52.35545177	2973.077776	0.044247357	44.24735695		2973.077776			
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Gasoline	196761.1569	8732860.794	359.674683	359674.683	361927.3798	8732860.794	8893408.735	24.57	LDT2
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Diesel	611.2140627	29007.74721	0.880423066	880.4230662		29007.74721			
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Electricity	1212.721837	43455.52608	0	0		43455.52608			
Riverside (SC)	2024	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1617.209463	88084.6679	1.372273758	1372.273758		88084.6679			
Riverside (SC)	2024	LHDT1	Aggregate	Aggregate	Gasoline	17828.73734	656766.0119	48.36247552	48362.47552	75554.20605	656766.0119	1221087.42	16.16	LHDT1
Riverside (SC)	2024	LHDT1	Aggregate	Aggregate	Diesel	15247.60565	560367.9206	27.19173053	27191.73053		560367.9206			
Riverside (SC)	2024	LHDT1	Aggregate	Aggregate	Electricity	53.50587181	3953.487241	0	0		3953.487241			
Riverside (SC)	2024	LHDT2	Aggregate	Aggregate	Gasoline	2494.679179	89754.81853	7.38743171	7387.43171	22224.411	89754.81853	344827.7113	15.52	LHDT2
Riverside (SC)	2024	LHDT2	Aggregate	Aggregate	Diesel	6844.928194	254103.3578	14.83697929	14836.97929		254103.3578			
Riverside (SC)	2024	LHDT2	Aggregate	Aggregate	Electricity	13.8489928	969.5349487	0	0		969.5349487			
Riverside (SC)	2024	MCY	Aggregate	Aggregate	Gasoline	24077.0623	140258.0803	3.359217865	3359.217865	3359.217865	140258.0803	140258.0803	41.75	MCY
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Gasoline	158529.7591	6468418.76	332.0736912	332073.6912	337278.1883	6468418.76	6673535.232	19.79	MDV
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Diesel	2456.219583	102039.6434	4.306633032	4306.633032		102039.6434			
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Electricity	1347.135818	48185.7285	0	0		48185.7285			
Riverside (SC)	2024	MDV	Aggregate	Aggregate	Plug-in Hybrid	1094.492843	54891.09982	0.897864131	897.864131		54891.09982			
Riverside (SC)	2024	MH	Aggregate	Aggregate	Gasoline	4781.777946	41623.53594	8.518926412	8518.926412	10212.97469	41623.53594	59176.14669	5.79	MH
Riverside (SC)	2024	MH	Aggregate	Aggregate	Diesel	2046.063726	17552.61075	1.694048275	1694.048275	70500 70004	17552.61075	~~~~~	0.40	
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Gasoline	1238.0029	49965.95549	9.588666638	9588.666638	73502.73221	49965.95549	624307.4842	8.49	MHDT
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Diesel	12954.3675	564761.4751	63.06414519	63064.14519		564761.4751			
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Electricity	40.46425607	2074.722372	0	0		2074.722372			
Riverside (SC)	2024	MHDT	Aggregate	Aggregate	Natural Gas	158.0466253	7505.331205	0.849920382	849.9203818	4662 200277	7505.331205	20000 0007	C 45	
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Gasoline	374.6153087	12781.812	2.496601383	2496.601383	4662.380277	12781.812	30088.9967	6.45	OBUS
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Diesel	219.2789175	15140.91273	1.951181612	1951.181612		15140.91273			
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Electricity	0.821516166	55.60331633	0	0		55.60331633			
Riverside (SC)	2024	OBUS	Aggregate	Aggregate	Natural Gas	34.6553722	2110.668656	0.214597282	214.5972817	5010 221042	2110.668656	27000 2201	C 41	CDUIC
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Gasoline	423.5817437	16753.46749	1.914821769	1914.821769	5918.221943	16753.46749	37909.3201	6.41	SBUS
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Diesel	491.8063992	10225.99182	1.394925642	1394.925642		10225.99182			
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Electricity	2.445505521	61.99924762	0	0		61.99924762			
Riverside (SC)	2024	SBUS	Aggregate	Aggregate	Natural Gas	443.1589434	10867.86154	2.608474532	2608.474532	11054 25204	10867.86154	40621 0201	4 40	
Riverside (SC)	2024		Aggregate	Aggregate	Gasoline	146.2127201	18511.1132	3.282633075	3282.633075	11054.35384	18511.1132 30.10971099	49631.8201	4.49	UBUS
Riverside (SC)	2024		Aggregate	Aggregate	Diesel	0.3117338	30.10971099 18 36371585	0.002675115	2.675115035					
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Electricity	0.120004951	18.36371585	0	0		18.36371585			
Riverside (SC)	2024	UBUS	Aggregate	Aggregate	Natural Gas	252.109466	31072.23347	7.769045647	7769.045647		31072.23347			

Source: EMFAC2021 (v1.0.2) Emissions Inventory Region Type: Sub-Area Region: Riverside (SC) 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	CalYr	VehClass	MdlYr	Speed	Fuel	Population	VMT	Fuel_Consumption	Fuel_Consumption	Total Fuel	VMT	Total VMT	Miles per Gallon	Vehicle Class
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	6.232252524	303.889871	0.078875502	78.87550173	324061.9332	303.889871	2014903.459	6.22	HHDT
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	15281.49903	1950611.476	315.5182536	315518.2536		1950611.476			
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	103.9487733	11894.93596	0	0		11894.93596			
Riverside (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	781.6601067	52093.15724	8.464804133	8464.804133		52093.15724			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Gasoline	469318.5342	20373765.83	673.3165394	673316.5394	685799.5767	20373765.83	22281991.59	32.49	LDA
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Diesel	1383.809245	49996.02059	1.157204906	1157.204906		49996.02059			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Electricity	23756.17576	1153396.904	0	0		1153396.904			
Riverside (SC)	2025	LDA	Aggregate	Aggregate	Plug-in Hybrid	14087.23202	704832.8394	11.32583244	11325.83244		704832.8394			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Gasoline	39844.42885	1499609.575	59.92078241	59920.78241	59994.79347	1499609.575	1508277.871	25.14	LDT1
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Diesel	16.26032827	298.1728862	0.012131898	12.13189805		298.1728862			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Electricity	84.57619148	4089.475353	0	0		4089.475353			
Riverside (SC)	2025	LDT1	Aggregate	Aggregate	Plug-in Hybrid	76.19034646	4280.647946	0.061879155	61.87915548		4280.647946			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Gasoline	201900.7772	8973973.952	360.0165635	360016.5635	362521.4419	8973973.952	9168424.554	25.29	LDT2
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Diesel	648.0824816	30519.42791	0.906087045	906.0870448		30519.42791			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Electricity	1658.408696	58637.73041	0	0		58637.73041			
Riverside (SC)	2025	LDT2	Aggregate	Aggregate	Plug-in Hybrid	1963.286623	105293.4446	1.598791388	1598.791388		105293.4446			
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Gasoline	17598.36242	652458.21	46.82732866	46827.32866	73403.79877	652458.21	1212550.7	16.52	LHDT1
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Diesel	15075.59282	549831.8274	26.5764701	26576.4701		549831.8274			
Riverside (SC)	2025	LHDT1	Aggregate	Aggregate	Electricity	149.6982853	10260.66293	0	0		10260.66293			
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2462.303572	88408.90183	7.133200743	7133.200743	21661.35468	88408.90183	341190.0394	15.75	LHDT2
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	6820.445818	250292.8301	14.52815394	14528.15394		250292.8301			
Riverside (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	38.18158868	2488.307475	0	0		2488.307475			
Riverside (SC)	2025	MCY	Aggregate	Aggregate	Gasoline	24005.46384	138549.7935	3.307549619	3307.549619	3307.549619	138549.7935	138549.7935	41.89	MCY
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Gasoline	157992.5704	6448292.677	323.4938203	323493.8203	328676.5122	6448292.677	6678432.543	20.32	MDV
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Diesel	2427.253752	99526.12558	4.137752355	4137.752355		99526.12558			
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Electricity	1830.142844	64565.5975	0	0		64565.5975			
Riverside (SC)	2025	MDV	Aggregate	Aggregate	Plug-in Hybrid	1324.504282	66048.14278	1.044939643	1044.939643		66048.14278			
Riverside (SC)	2025	MH	Aggregate	Aggregate	Gasoline	4508.467531	38795.29207	7.939175542	7939.175542	9582.26868	38795.29207	55815.16631	5.82	MH
Riverside (SC)	2025	MH	Aggregate	Aggregate	Diesel	2015.081247	17019.87424	1.643093138	1643.093138		17019.87424			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1219.56756	49718.98291	9.418016992	9418.016992	73843.62953	49718.98291	635118.1523	8.60	MHDT
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	13275.74248	571359.1019	63.53271272	63532.71272		571359.1019			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	118.7135177	6143.919124	0	0		6143.919124			
Riverside (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	169.7860028	7896.148358	0.892899818	892.8998181		7896.148358			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Gasoline	362.5102847	12151.28279	2.347950658	2347.950658	4510.758842	12151.28279	29688.04546	6.58	OBUS
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Diesel	224.9321911	15183.67961	1.940769719	1940.769719		15183.67961			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Electricity	2.021694394	134.2617193	0	0		134.2617193			
Riverside (SC)	2025	OBUS	Aggregate	Aggregate	Natural Gas	36.9521167	2218.821339	0.222038465	222.0384652		2218.821339			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Gasoline	426.2067312	16859.59503	1.92304347	1923.04347	5926.536182	16859.59503	38036.5897	6.42	SBUS
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Diesel	483.8964136	9931.139032	1.352394432	1352.394432		9931.139032			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Electricity	5.22909553	143.1587763	0	0		143.1587763			
Riverside (SC)	2025	SBUS	Aggregate	Aggregate	Natural Gas	457.8096259	11102.69686	2.65109828	2651.09828		11102.69686			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Gasoline	146.4959788	18545.85863	3.288543187	3288.543187	10964.44655	18545.85863	49731.99827	4.54	UBUS
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Diesel	0.3117338	30.10971099	0.002675115	2.675115035		30.10971099			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Electricity	0.20926462	33.75780976	0	0		33.75780976			
Riverside (SC)	2025	UBUS	Aggregate	Aggregate	Natural Gas	252.5418031	31122.27213	7.673228246	7673.228246		31122.27213			

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