

DATE: March 10, 2023

TO: Mandi Needle, CASC Engineering & Consulting

FROM: Haseeb Qureshi

Ali Dadabhoy

Shannon Wong

JOB NO: 15076-02 AQ & GHG Assesment

NELSON AVENUE AIR QUALITY & GREENHOUSE GAS ASSESSMENT

Mandi Needle,

Urban Crossroads, Inc. is pleased to provide the following Air Quality & Greenhouse Gas Assessment for the Nelson Avenue (**Project**), which is located at 15010-15100 Nelson Avenue in the City of Industry (APNs 8208-011-029 and 8208-011-009).

PROJECT OVERVIEW

The Project is proposing for the demolition of 5 existing buildings of approximately 22,040 square feet and proposing to construct one new industrial building. The proposed building includes 137,730 square feet for warehouse space, 5,000 square feet for office space on the 1st floor, and 5,000 square feet for office space on the 2nd floor, resulting in a total floor area of 147,730 square feet. The proposed Project is anticipated to have an opening year of 2024. The Project's Tentative Tract Map is shown as Exhibit 1.

SUMMARY OF FINDINGS

Results of the assessment indicate that the Project would result in a less than significant with respect to air quality, and greenhouse gases.





PROJECT AIR QUALITY IMPACTS

AIR QUALITY SETTING

SOUTH COAST AIR BASIN (SCAB)

The Project site is located in the SCAB within the jurisdiction of South Coast Air Quality Management District (SCAQMD) (1). The SCAQMD was created by the 1977 Lewis-Presley Air Quality Management Act, which merged four county air pollution control bodies into one regional district. Under the Act, the SCAQMD is responsible for bringing air quality in areas under its jurisdiction into conformity with federal and state air quality standards. As previously stated, the Project site is located within the SCAB, a 6,745-square mile subregion of the SCAQMD, which includes portions of Los Angeles, Riverside, and San Bernardino Counties, and all of Orange County.

The SCAB is bounded by the Pacific Ocean to the west and the San Gabriel, San Bernardino, and San Jacinto Mountains to the north and east. The Los Angeles County portion of the Mojave Desert Air Basin is bounded by the San Gabriel Mountains to the south and west, the Los Angeles / Kern County border to the north, and the Los Angeles / San Bernardino County border to the east. The Riverside County portion of the Salton Sea Air Basin is bounded by the San Jacinto Mountains in the west and spans eastward up to the Palo Verde Valley.

Regional Climate

The regional climate has a substantial influence on air quality in the SCAB. In addition, the temperature, wind, humidity, precipitation, and amount of sunshine influence the air quality.

The annual average temperatures throughout the SCAB vary from the low to middle 60s degrees Fahrenheit (°F). Due to a decreased marine influence, the eastern portion of the SCAB shows greater variability in average annual minimum and maximum temperatures. January is the coldest month throughout the SCAB, with average minimum temperatures of 47°F in downtown Los Angeles and 36°F in San Bernardino. All portions of the SCAB have recorded maximum temperatures above 100°F.

Although the climate of the SCAB can be characterized as semi-arid, the air near the land surface is quite moist on most days because of the presence of a marine layer. This shallow layer of sea air is an important modifier of SCAB climate. Humidity restricts visibility in the SCAB, and the conversion of sulfur dioxide (SO_2) to sulfates (SO_4) is heightened in air with high relative humidity. The marine layer provides an environment for that conversion process, especially during the spring and summer months. The annual average relative humidity within the SCAB is 71 percent (%) along the coast and 59% inland. Since the ocean effect is dominant, periods of heavy early morning fog are frequent and low stratus clouds are a characteristic feature. These effects decrease with distance from the coast.

More than 90% of the SCAB's rainfall occurs from November through April. The annual average rainfall varies from approximately nine inches in Riverside to fourteen inches in downtown Los Angeles. Monthly and yearly rainfall totals are extremely variable. Summer rainfall usually consists of widely scattered thunderstorms near the coast and slightly heavier shower activity in the eastern portion of the SCAB with frequency being higher near the coast.



Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

The importance of wind to air pollution is considerable. The direction and speed of the wind determines the horizontal dispersion and transport of the air pollutants. During the late autumn to early spring rainy season, the SCAB is subjected to wind flows associated with the traveling storms moving through the region from the northwest. This period also brings five to ten periods of strong, dry offshore winds, locally termed "Santa Anas" each year. During the dry season, which coincides with the months of maximum photochemical smog concentrations, the wind flow is bimodal, typified by a daytime onshore sea breeze and a nighttime offshore drainage wind. Summer wind flows are created by the pressure differences between the relatively cold ocean and the unevenly heated and cooled land surfaces that modify the general northwesterly wind circulation over southern California. Nighttime drainage begins with the radiational cooling of the mountain slopes. Heavy, cool air descends the slopes and flows through the mountain passes and canyons as it follows the lowering terrain toward the ocean. Another characteristic wind regime in the SCAB is the "Catalina Eddy," a low level cyclonic (counterclockwise) flow centered over Santa Catalina Island which results in an offshore flow to the southwest. On most spring and summer days, some indication of an eddy is apparent in coastal sections.

In the SCAB, there are two distinct temperature inversion structures that control vertical mixing of air pollution. During the summer, warm high-pressure descending (subsiding) air is undercut by a shallow layer of cool marine air. The boundary between these two layers of air is a persistent marine subsidence/inversion. This boundary prevents vertical mixing which effectively acts as an impervious lid to pollutants over the entire SCAB. The mixing height for the inversion structure is normally situated 1,000 to 1,500 feet above mean sea level.

A second inversion-type forms in conjunction with the drainage of cool air off the surrounding mountains at night followed by the seaward drift of this pool of cool air. The top of this layer forms a sharp boundary with the warmer air aloft and creates nocturnal radiation inversions. These inversions occur primarily in the winter when nights are longer and onshore flow is weakest. They are typically only a few hundred feet above mean sea level. These inversions effectively trap pollutants, such as nitrogen oxides (NO_X) and carbon monoxide (CO) from vehicles, as the pool of cool air drifts seaward. Winter is therefore a period of high levels of primary pollutants along the coastline.

Wind Patterns and Project Location

The distinctive climate of the Project area and the SCAB is determined by its terrain and geographical location. The SCAB is located in a coastal plain with connecting broad valleys and low hills, bounded by the Pacific Ocean in the southwest quadrant with high mountains forming the remainder of the perimeter.

Wind patterns across the south coastal region are characterized by westerly and southwesterly onshore winds during the day and easterly or northeasterly breezes at night. Winds are characteristically light although the speed is somewhat greater during the dry summer months than during the rainy winter season.



Criteria Pollutants

Both the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. These ambient air quality standards are levels of contaminants representing safe levels that avoid specific adverse health effects associated with each pollutant. The ambient air quality standards cover what are called "criteria" pollutants because the health and other effects of each pollutant are described in criteria documents. The six criteria pollutants are ozone (O₃) (precursor emissions include NO_X and reactive organic gases (ROG), CO, particulate matter (PM), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), and lead. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The Riverside County portion of the SCAB is designated as a nonattainment area for the federal O₃ and PM_{2.5} standards and is also a nonattainment area for the state standards for O₃, PM₁₀, and PM_{2.5}.

Toxic Air Contaminants (TAC) Trend

In 1984, as a result of public concern for exposure to airborne carcinogens, CARB adopted regulations to reduce the amount of TAC emissions resulting from mobile and area sources, such as cars, trucks, stationary products, and consumer products. According to the Ambient and Emission Trends of Toxic Air Contaminants in California journal article (2) which was prepared for CARB, results show that between 1990-2012, ambient concentration and emission trends for the seven TACs responsible for most of the known cancer risk associated with airborne exposure in California have declined significantly (between 1990 and 2012). The seven TACs studied include those that are derived from mobile sources: diesel particulate matter (DPM), benzene (C_6H_6), and 1,3-butadiene (C_4H_6); those that are derived from stationary sources: perchloroethylene (C_2Cl_4) and hexavalent chromium (Cr(VI)); and those derived from photochemical reactions of emitted VOCs: formaldehyde (CH_2O) and acetaldehyde (C_2H_4O)¹. The decline in ambient concentration and emission trends of these TACs are a result of various regulations CARB has implemented to address cancer risk.

Some people are especially sensitive to air pollution and are given special consideration when evaluating air quality impacts from projects. These groups of people include children, the elderly, and individuals with pre-existing respiratory or cardiovascular illness. Structures that house these persons or places where they gather are defined as "sensitive receptors". These structures typically include uses such as residences, hotels, and hospitals where an individual can remain for 24 hours. Consistent with the LST Methodology, the nearest land use where an individual could remain for 24 hours to the Project site has been used to determine construction and operational air quality impacts for emissions of PM₁₀ and PM_{2.5}, since PM₁₀ and PM_{2.5} thresholds are based on a 24-hour averaging time.

Receptors in the Project study area are described below. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade,

¹ It should be noted that ambient DPM concentrations are not measured directly. Rather, a surrogate method using the coefficient of haze (COH) and elemental carbon (EC) is used to estimate DPM concentrations.



whichever is closer to the Project site. Receptors in the Project study area are shown on Exhibit 2 under the Localized Construction Emissions section later in the report.

- Receptor R1 represents the existing residence at 303 Cadbrook Dr, approximately 70 feet northeast of the Project site.
- Receptor R2 represents Millennia Tax Relief at 15000 Nelson Ave E, approximately 42 feet northwest of the Project site.
- Receptor R3 represents Sunrise Marketing Inc at 15046 Nelson Ave E, approximately 56 feet east of the Project site.
- Receptor R4 represents M&M Tires at 15016 Valley Blvd, approximately 238 feet southwest of the Project site.
- Receptor R5 represents Howmet Aerospace at 135 N Unruh Ave, approximately 132 feet east of the Project site.

REGULATORY BACKGROUND

FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the national ambient air quality standards (NAAQS) for O₃, CO, NO_X, SO₂, PM₁₀, and lead (Pb) (3). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

The Federal Clean Air Act (CAA) was first enacted in 1955 and has been amended numerous times in subsequent years (1963, 1965, 1967, 1970, 1977, and 1990). The CAA establishes the federal air quality standards, the NAAQS, and specifies future dates for achieving compliance (4). The CAA also mandates that each state submit and implement state implementation plans (SIPs) for local areas not meeting these standards. These plans must include pollution control measures that demonstrate how the standards will be met.

The 1990 amendments to the CAA that identify specific emission reduction goals for areas not meeting the NAAQS require a demonstration of reasonable further progress toward attainment and incorporate additional sanctions for failure to attain or to meet interim milestones. The sections of the CAA most directly applicable to the development of the Project site include Title I (Non-Attainment Provisions) and Title II (Mobile Source Provisions) (5) (6). Title I provisions were established with the goal of attaining the NAAQS for the following criteria pollutants O_3 , NO_2 , SO_2 , PM_{10} , CO, $PM_{2.5}$, and Pb. The NAAQS were amended in July 1997 to include an additional standard for O_3 and to adopt a NAAQS for $PM_{2.5}$.

Mobile source emissions are regulated in accordance with Title II provisions. These provisions require the use of cleaner burning gasoline and other cleaner burning fuels such as methanol and natural gas. Automobile manufacturers are also required to reduce tailpipe emissions of hydrocarbons and NO_X . NO_X is a collective term that includes all forms of NO_X which are emitted as byproducts of the combustion process.



CALIFORNIA REGULATIONS

CARB

The CARB, which became part of the California EPA (CalEPA) in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the California ambient air quality standards (CAAQS) for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO₄, visibility, hydrogen sulfide (H₂S), and vinyl chloride (C₂H₃Cl). However, at this time, H₂S and C₂H₃Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (7) (8).

Local air quality management districts, such as the SCAQMD, regulate air emissions from stationary sources such as commercial and industrial facilities. All air pollution control districts have been formally designated as attainment or non-attainment for each CAAQS.

Serious non-attainment areas are required to prepare Air Quality Management Plans (AQMP) that include specified emission reduction strategies in an effort to meet clean air goals. These plans are required to include:

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g. motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM₁₀. However, air basins may use alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

AQMP

Currently, the NAAQS and CAAQS are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMP to meet the state and federal ambient air quality standards (9). AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.



APPLICABLE REGULATORY REQUIRMENTS

SCAQMD Rules that are currently applicable during construction activity for this Project include but are not limited to Rule 403 (Fugitive Dust) and Rule 1113 (Architectural Coatings) (10) (11).

SCAQMD Rule 403

This rule is intended to reduce the amount of particulate matter entrained in the ambient air as a result of anthropogenic (human-made) fugitive dust sources by requiring actions to prevent and reduce fugitive dust emissions. Rule 403 applies to any activity or human-made condition capable of generating fugitive dust and requires best available control measures to be applied to earth moving and grading activities. This rule is intended to reduce PM_{10} emissions from any transportation, handling, construction, or storage activity that has the potential to generate fugitive dust. PM_{10} suppression techniques are summarized below.

- Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
- All onsite roads will be paved as soon as feasible or watered periodically or chemically stabilized.
- All material transported offsite will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.
- Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the workday to remove soil tracked onto the paved surface.

SCAQMD Rule 1113

This rule serves to limit the volatile organic compound (VOC) content of architectural coatings used on projects in the SCAQMD. Any person who supplies, sells, offers for sale, or manufactures any architectural coating for use on projects in the SCAQMD must comply with the current VOC standards set in this rule.

Construction-Source Project Design Feature (PDF)

The Project will implement a Construction Management Plan to ensure that off-road diesel construction equipment rated at 50 horsepower (hp) or greater, complies with Environmental Protection Agency (EPA)/California Air Resources Board (CARB) Tier 4 off-road emissions standards or equivalent and shall ensure that all construction equipment is tuned and maintained in accordance with the manufacturer's specifications.

METHODOLOGY

In May 2022, the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of the CalEEMod Version 2022.1. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM₁₀, and PM_{2.5}) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from



mitigation measures (12). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality and greenhouse gas emissions.

Standards of Significance

The criteria used to determine the significance of potential Project-related air quality impacts are taken from the California Environmental Quality Act Guidelines (CEQA Guidelines) (14 CCR §§15000, et seq.). Based on these thresholds, a project would result in a significant impact related to air quality if it would (13):

- Threshold 1: Conflict with or obstruct implementation of the applicable air quality plan.
- **Threshold 2**: Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard.
- **Threshold 3**: Expose sensitive receptors to substantial pollutant concentrations.
- **Threshold 4**: Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

AIR QUALITY REGIONAL EMISSIONS THRESHOLDS

The SCAQMD has developed regional significance thresholds for criteria pollutants, as summarized at Table 1 (14). The SCAQMD's CEQA Air Quality Significance Thresholds (April 2019) indicate that any projects in the South Coast Air Basin (SCAB) with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 1: MAXIMUM DAILY REGIONAL EMISSIONS THRESHOLDS

Pollutant	Construction	Operations
Pollutarit	Construction	Operations
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM ₁₀	150 lbs/day	150 lbs/day
PM _{2.5}	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
СО	550 lbs/day	550 lbs/day

lbs/day – Pounds Per Day

AIR QUALITY LOCALIZED EMISSIONS THRESHOLDS

For this Project, the appropriate SRA for the LST analysis is the SCAQMD South San Gabriel Valley Area monitoring station (SRA 11). LSTs apply to CO, NO_2 , PM_{10} , and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size. The SCAQMD's screening look-up tables are utilized in determining localized impacts. It should be noted that since the look-up tables identify thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds



presented in Table 2 were calculated by interpolating the threshold values for the Project's disturbed acreage.

The acres disturbed is based on the equipment list and days in the demolition, site preparation, and grading phase according to the anticipated maximum number of acres a given piece of equipment can pass over in an 8-hour workday. The equipment-specific grading rates are summarized in the CalEEMod user's guide, Appendix A: Calculation Details for CalEEMod (15). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Appendix A of the CalEEMod User Manual only identifies equipment-specific grading rates for Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers; therefore, Tractors/Loaders/Backhoes equipment that was included in the demolition, site preparation and grading phase was replaced with Crawler Tractors. For analytical purposes, emissions associated with peak site demolition, preparation, and grading activities are considered for purposes of localized significance thresholds (LSTs) since this phase represents the maximum localized emissions that would occur. The Project's construction activities could disturb a maximum of approximately 1 acre per day for demolition, 3.5 acres per day for site preparation and 2.5 acres per day for grading activities. Any other construction phases of development would result in lesser emissions and consequently lesser impacts than what is disclosed herein. As such, Table 2 presents thresholds for localized construction and operational emissions.

TABLE 2: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS

Source	Activity	Emissions (lbs/day)					
Source	Activity	VOC	NOX	PM ₁₀	PM _{2.5}		
	Demolition	83 lbs/day	673 lbs/day	5 lbs/day	4 lbs/day		
Construction	Site Preparation	102 lbs/day	852 lbs/day	6 lbs/day	5 lbs/day		
	Grading	89 lbs/day	733 lbs/day	5 lbs/day	4 lbs/day		
Operations	N/A	183 lbs/day	1,814 lbs/day	14 lbs/day	9 lbs/day		

¹Source of localized significance threshold (LSTs) is provided on page 19.

CONSTRUCTION ACTIVITIES

Construction activities associated with the Project would result in emissions of VOCs, NO_X , SO_X , CO, PM_{10} , and $PM_{2.5}$. Construction related emissions are expected from the following construction activities:

- Demolition
- Site Preparation
- Grading (Import/Export)
- Building Construction
- Paving

Architectural Coating

DEMOLITION ACTIVITIES

The Project site is currently developed with 5 existing structures that will be demolished, resulting in approximately 22,040 square feet of demolished material.

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions". Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. Per client provided data, the Project is expected to balance, and import/export would be required. The CalEEMod default trip length of 20-miles will be used to analyze the emissions associated with export activities.

ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for workers, vendors, and haul trucks commuting to and from the site. Worker and hauling trips are based on CalEEMod defaults. 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 DURATION

For purposes of analysis, construction of Project is expected to commence in August 2023 and would last through August 2024. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent². The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per CEQA Guidelines (16).

CONSTRUCTION EQUIPMENT

CalEEMod default parameters for equipment has been used. Consistent with industry standards and typical construction practices, each piece of equipment will operate up to a total of eight (8)

² As shown in the CalEEMod User's Guide Version 2022.1, Section 4.3 "Off-Road Equipment" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.



hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

REGIONAL CONSTRUCTION EMISSIONS SUMMARY

The estimated maximum daily construction emissions are summarized on Table 3, and as shown, the Project construction-source emissions would not exceed SCAQMD regional thresholds. Thus, the Project would result in a less than significant impact associated with construction activities. Detailed Construction model outputs are presented in Attachment A.

TABLE 3: REGIONAL CONSTRUCTION EMISSIONS SUMMARY

Course	Emissions (lbs/day)						
Source	VOC	NO _X	СО	SO _X	PM ₁₀	PM _{2.5}	
	S	ummer					
2023	0.76	15.80	31.40	0.05	6.00	2.85	
2024	39.40	19.40	34.70	0.05	1.73	0.70	
	,	Winter					
2023	0.70	11.10	20.40	0.03	2.58	1.10	
2024	0.69	10.60	20.00	0.03	1.13	0.38	
Maximum Daily Emissions	39.40	19.40	34.70	0.05	6.00	2.85	
SCAQMD Regional Threshold	75	100	550	150	150	55	
Threshold Exceeded?	NO	NO	NO	NO	NO	NO	

¹PM₁₀ and PM₂₅ source emissions reflect 3x daily watering per SCAQMD Rule 403 for fugitive dust.

REGIONAL OPERATIONAL EMISSIONS

Operational activities associated with the Project would result in emissions of VOCs, NO_X , CO, SO_X , PM_{10} , and $PM_{2.5}$. Operational related emissions are expected from the following primary sources: area source emissions, energy source emissions, and mobile source emissions.

The proposed Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip generation statistics published in the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (11th Edition, 2021) for the Warehousing (ITE Land Use Code 150) land use category were utilized in this analysis (17).

To determine emissions from trucks for the proposed industrial uses, the analysis incorporated the SCAQMD recommended truck trip length 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using the following SCAQMD recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%. The trip length function for trucks in CalEEMod has been revised to 30.47 miles, with an assumption of 100% primary trips for the proposed industrial land uses.

It is common for warehouse buildings to require the operation of exterior yard trucks or cargo handling equipment (CHE) to move empty containers and empty chassis in the building's truck court areas. The cargo handling equipment is assumed to have a horsepower (hp) range of approximately 175 hp to 200 hp. Based on the latest available information from SCAQMD (18); for example, warehouse projects typically have 3.6-yard trucks/CHE per million square feet of building space. For this Project, on-site modeled operational equipment conservatively includes up to one (1) 200 horsepower (hp), compressed natural gas or gasoline-powered tractors/loaders/backhoes operating at 4 hours a day³ for 365 days of the year. Additionally, no outdoor forklifts will be used at the project site.

The estimated operation-source emissions from the Project are summarized on Table 4. Detailed operation model outputs are presented in Attachment A. As shown on Table 4, operational-source emissions would not exceed the applicable SCAQMD regional thresholds for emissions of any criteria pollutant.

TABLE 4: TOTAL PROJECT REGIONAL OPERATIONAL EMISSIONS

	Emissions (lbs/day)						
Source	VOC	NO _X	СО	SO_X	PM ₁₀	PM _{2.5}	
	S	ummer					
Mobile Source	0.80	9.03	10.40	0.09	1.84	0.49	
Area Source	4.44	0.05	6.42	< 0.005	0.01	0.01	
Energy Source	0.04	0.76	0.64	< 0.005	0.06	0.06	
On-site Equipment	0.12	0.38	16.44	0.00	0.03	0.03	
Total Maximum Daily Emissions	5.40	10.22	33.90	0.09	1.94	0.59	
SCAQMD Regional Threshold	55	55	550	150	150	55	
Threshold Exceeded?	NO	NO	NO	NO	NO	NO	

³ 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/backhoes would operate up to 4 hours per day.



Course	Emissions (lbs/day)							
Source	VOC	NOx	СО	SO _X	PM ₁₀	PM _{2.5}		
	,	Winter						
Mobile Source	0.79	9.43	9.82	0.09	1.84	0.49		
Area Source	3.39	0.00	0.00	0.00	0.00	0.00		
Energy Source	0.04	0.76	0.64	< 0.005	0.06	0.06		
On-site Equipment	0.12	0.38	16.44	0.00	0.03	0.03		
Total Maximum Daily Emissions	4.34	10.57	26.90	0.09	1.93	0.58		
SCAQMD Regional Threshold	55	55	550	150	150	55		
Threshold Exceeded?	NO	NO	NO	NO	NO	NO		

EXISTING BUILDING OPERATIONAL EMISSIONS

There are 5 existing buildings on the site which is approximately 22,040 square feet. The estimated operation-source emissions from the existing building are summarized on Table 5. Detailed operation model outputs are presented in Attachment C.

The existing Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip generation statistics published in the Institute of Transportation Engineers (ITE) <u>Trip Generation Manual</u> (11th Edition, 2021) for the Warehousing (ITE Land Use Code 150) land use category were utilized in this analysis (17).

To determine emissions from trucks for the existing industrial uses, the analysis incorporated the SCAQMD recommended truck trip length 15.3 miles for 2-axle (LHDT1, LHDT2) trucks, 14.2 miles 3-axle (MHDT) trucks and 39.9 miles for 4+-axle (HHDT) trucks and weighting the average trip lengths using the following SCAQMD recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%. The trip length function for trucks in CalEEMod has been revised to 30.47 miles, with an assumption of 100% primary trips for the existing industrial land uses.

TABLE 5: EXISTING BUILDING REGIONAL OPERATIONAL EMISSIONS

Course	Emissions (lbs/day)						
Source	VOC	NOx	СО	SO_X	PM ₁₀	PM _{2.5}	
	Summer						
Mobile Source	0.18	1.46	2.22	0.01	0.32	0.08	
Area Source	0.66	0.01	0.96	< 0.005	< 0.005	< 0.005	
Energy Source	0.01	0.11	0.10	< 0.005	0.01	0.01	
Total Maximum Daily Emissions	0.85	1.58	3.28	0.01	0.33	0.09	
SCAQMD Regional Threshold	55	55	550	150	150	55	
Threshold Exceeded?	NO	NO	NO	NO	NO	NO	

Carran	Emissions (lbs/day)						
Source	VOC	NO _X	СО	SO_X	PM ₁₀	PM _{2.5}	
		Winter					
Mobile Source	0.17	1.52	2.06	0.01	0.32	0.08	
Area Source	0.50	0.00	0.00	0.00	0.00	0.00	
Energy Source	0.01	0.11	0.10	< 0.005	0.01	0.01	
Total Maximum Daily Emissions	0.68	1.63	2.16	0.01	0.33	0.09	
SCAQMD Regional Threshold	55	55	550	150	150	55	
Threshold Exceeded?	NO	NO	NO	NO	NO	NO	

PROJECT NET NEW OPERATIONAL EMISSIONS - COMPARISON TO EXISTING BUILDING

As shown in Table 6, the proposed Project is anticipated to generate slightly more emissions per day for pollutants of VOC, NO_X , CO, SO_X , PM_{10} , and $PM_{2.5}$ as compared to emissions generated by the existing building, additionally; the proposed Projects emissions would still be less than the applicable thresholds.

TABLE 6: PROJECT NET NEW REGIONAL OPERATIONAL EMISSIONS

Carrier		Emissions (lbs/day)							
Source	VOC	NO _X	со	SO _X	PM ₁₀	PM _{2.5}			
	Sı	ımmer							
Proposed Project	5.40	10.22	33.90	0.09	1.94	0.59			
Existing Building	0.85	1.58	3.28	0.01	0.33	0.09			
Net Emissions (Proposed - Existing)	4.55	8.64	30.62	0.08	1.61	0.50			
SCAQMD Regional Threshold	55	55	550	150	150	55			
Threshold Exceeded?	NO	NO	NO	NO	NO	NO			
	V	Vinter							
Proposed Project	4.34	10.57	26.90	0.09	1.93	0.58			
Existing Building	0.68	1.63	2.16	0.01	0.33	0.09			
Net Emissions (Proposed - Existing)	3.66	8.94	24.74	0.08	1.60	0.49			
SCAQMD Regional Threshold	55	55	550	150	150	55			
Threshold Exceeded?	NO	NO	NO	NO	NO	NO			

LOCALIZED CONSTRUCTION EMISSIONS

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (19). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the

federal and/or state ambient air quality standards (NAAQS/CAAQS). Collectively, these are referred to as Localized Significance Thresholds (LSTs). The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-44. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in its air quality impact analyses. It should be noted that SCAQMD also states that Projects that are statutorily or categorically exempt under CEQA would not be subject to LST analyses. Projects exempt from CEQA also include infill projects that meet the H&S Code provisions. As such, although not required for this Project, LST analysis is presented to further underscore that there are in fact no significant impacts associated with the Project.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual or cumulatively significant impact. The nearest land use where an individual could remain for 24 hours to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$ (since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time). The nearest receptor used for evaluation of localized impacts of PM_{10} and $PM_{2.5}$ is location R1, represented by the existing residence at 303 Cadbrook Dr, approximately 70 feet (21 meters) northeast of the Project site. Receptors in the Project study area shown on Exhibit 2.

As previously stated, and consistent with LST Methodology, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_X and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assume that an individual could be present at these sites for periods of one to 8 hours. The nearest receptor used for evaluation of localized impacts of NO_X and CO is location R2, represented by Millennia Tax Relief at 15000 Nelson Ave E, approximately 42 feet (13 meters) northwest of the Project site.

It should be noted that the LST Methodology explicitly states that "It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters (19)." As such, for evaluation of localized PM_{10} , $PM_{2.5}$, NO_x and CO, a 25-meter distance will be used.

⁴ The purpose of SCAQMD's Environmental Justice program is to ensure that everyone has the right to equal protection from air pollution and fair access to the decision-making process that works to improve the quality of air within their communities. Further, the SCAQMD defines Environmental Justice as "...equitable environmental policymaking and enforcement to protect the health of all residents, regardless of age, culture, ethnicity, gender, race, socioeconomic status, or geographic location, from the health effects of air pollution."



EXHIBIT 2: SENSITIVE RECEPTOR LOCATIONS



Table 7 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Attachment A. For analytical purposes, emissions associated with peak demolition, site preparation and grading activities are considered for purposes of LSTs since these phases represents the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in lesser emissions and consequently lesser impacts than what is disclosed herein. As shown in Table 7, emissions resulting from the Project construction will not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for localized Project-related construction-source emissions and no mitigation is required.

TABLE 7: PROJECT LOCALIZED CONSTRUCTION IMPACTS

	Emissions (lbs/day)				
On-Site Emissions	NO _X	со	PM ₁₀	PM _{2.5}	
Do	emolition				
Maximum Daily Emissions	12.00	18.20	1.44	0.51	
SCAQMD Localized Threshold	83	673	5	4	
Threshold Exceeded?	NO	NO	NO	NO	
Site	Preparation	•		•	
Maximum Daily Emissions	15.70	30.00	5.76	2.79	
SCAQMD Localized Threshold	102	852	6	5	
Threshold Exceeded?	NO	NO	NO	NO	
	Grading	•		•	
Maximum Daily Emissions	11.00	19.00	2.38	1.06	
SCAQMD Localized Threshold	89	733	5	4	
Threshold Exceeded?	NO	NO	NO	NO	

LOCALIZED OPERATIONAL EMISSIONS

Table 8 identifies the localized operational impacts at the nearest receptor location in the vicinity of the Project. In an effort to establish a maximum potential impact scenario for analytical purposes, the emissions shown on Table 8 represent all on-site Project-related stationary (area) sources and on-site mobile source emissions. It should be noted that the longest on-site distance is roughly 0.20 miles for both trucks and passenger vehicles. As such, a separate CalEEMod run for operational LSTs has been prepared which accounts for the 0.20-mile on-site travel distance. Outputs from the model runs for operational LSTs are provided in Attachment B. As shown in Table 8, emissions resulting from the Project operation will not exceed the numerical localized thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for localized Project-related operational-source emissions and no mitigation is required.

TABLE 8: PROJECT LOCALIZED OPERATIONAL IMPACTS

On Sita Emissions	Emissions (lbs/day)					
On-Site Emissions	NO _X	СО	PM ₁₀	PM _{2.5}		
Maximum Daily Emissions	2.24	25.39	0.12	0.10		
SCAQMD Localized Threshold	183	1,814	14	9		
Threshold Exceeded?	NO	NO	NO	NO		

AIR QUALITY IMPACTS - CONSISTENCY WITH THRESHOLD NO. 1

Would the Project conflict with or obstruct implementation of the applicable air quality plan?

The Project site is located within the SCAB, which is characterized by relatively poor air quality. The SCAQMD has jurisdiction over an approximately 10,743 square-mile area consisting of the four-county Basin and the Los Angeles County and Riverside County portions of what use to be referred to as the Southeast Desert Air Basin. In these areas, the SCAQMD is principally responsible for air pollution control, and works directly with the Southern California Association of Governments (SCAG), county transportation commissions, local governments, as well as state and federal agencies to reduce emissions from stationary, mobile, and indirect sources to meet state and federal ambient air quality standards.

Currently, these state and federal air quality standards are exceeded in most parts of the SCAB. In response, the SCAQMD has adopted a series of AQMPs to meet the state and federal ambient air quality standards. AQMPs are updated regularly in order to more effectively reduce emissions, accommodate growth, and to minimize any negative fiscal impacts of air pollution control on the economy.

In December 2022, the SCAQMD released the Final 2022 AQMP (2022 AQMP). The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the CAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (20). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (21). The Project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook (22). These indicators are discussed below.

The proposed Project will not result in an increase in the frequency or severity of existing air quality violations or cause or contribute to new violations or delay the timely attainment of air quality standards or the interim emissions reductions specified in the AQMP.

The violations that under this criterion refer to are the CAAQS and NAAQS. CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded.

CAAQS and NAAQS violations would occur if regional or localized significance thresholds were exceeded. As evaluated, the Project's regional and localized construction and operational-source emissions would not exceed applicable regional significance thresholds. As such, a less than significant impact is expected.

On the basis of the preceding discussion, the Project is determined to be consistent with the first criterion.

The Project will not exceed the assumptions in the AQMP based on the years of Project buildout phase.

The 2022 AQMP demonstrates that the applicable ambient air quality standards can be achieved within the timeframes required under federal law. Growth projections from local general plans adopted by cities in the district are provided to the SCAG, which develops regional growth forecasts, which are then used to develop future air quality forecasts for the AQMP. Development consistent with the growth projections in City of Industry General Plan is considered to be consistent with the AQMP.

Peak day emissions generated by construction activities are largely independent of land use assignments, but rather are a function of development scope and maximum area of disturbance. Irrespective of the site's land use designation, development of the site to its maximum potential would likely occur, with disturbance of the entire site occurring during construction activities. As such, when considering that no emissions thresholds will be exceeded, a less than significant impact would result.

The City of Industry General Plan designates the Project site as "Employment" for APNs 8250-001-009 and 8208-011-029. The "Employment" designation allows for a wide range of business and employment uses including industrial manufacturing, assembly, printing, machining, milling, welding research and development, distribution, warehousing, storage, and supporting office uses (23).

The proposed Project includes the development of 137,730 square feet for warehouse space, 5,000 square feet for office space on the 1st floor, and 5,000 square feet for office space on the 2nd floor, resulting in a total floor area of 147,730 square feet. As previously stated, the Project is consistent with the current land use and zoning designation. As such, the proposed Project would not conflict with the goals and objectives of the AQMP. Furthermore, the Project, as evaluated herein would not exceed the regional or localized air quality significance thresholds.

On the basis of the preceding discussion, the Project is determined to be consistent with the AQMP and a less than significant impact is expected.

AIR QUALITY IMPACTS - CONSISTENCY WITH THRESHOLD NO. 2

Would the Project result in a cumulatively considerable net increase of any criteria pollutant for which the project region is in non-attainment under an applicable federal or state ambient air quality standard?

The CAAQS designate the Project site as nonattainment for O_3 , PM_{10} , and $PM_{2.5}$ while the NAAQS designates the Project site as nonattainment for O_3 and $PM_{2.5}$.



The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (24). In this report the SCAQMD clearly states (Page D-3):

"...the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.

Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."

Therefore, this analysis assumes that individual projects that do not generate operational or construction emissions that exceed the SCAQMD's recommended daily thresholds for project-specific impacts would also not cause a cumulatively considerable increase in emissions for those pollutants for which SCAB is in nonattainment, and, therefore, would not be considered to have a significant, adverse air quality impact. Alternatively, individual project-related construction and operational emissions that exceed SCAQMD thresholds for project-specific impacts would be considered cumulatively considerable.

Construction Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project construction-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, proposed Project construction-source emissions would be considered less than significant on a project-specific and cumulative basis.

Operational Impacts

The Project-specific evaluation of emissions presented in the preceding analysis demonstrates that proposed Project operational-source air pollutant emissions would not result in exceedances of regional thresholds. Therefore, the proposed Project operational-source emissions would be considered less than significant on a project-specific and cumulative basis.

AIR QUALITY IMPACTS - CONSISTENCY WITH THRESHOLD NO. 3

Would the expose sensitive receptors to substantial pollutant concentrations?

The potential impact of Project-generated air pollutant emissions at sensitive receptors has also been considered. Results of the LST analysis indicate that the Project will not exceed the SCAQMD localized significance thresholds during construction. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations during Project construction.



Additionally, the Project will not exceed the SCAQMD localized significance thresholds during operational activity. Therefore, sensitive receptors would not be exposed to substantial pollutant concentrations as the result of Project operations.

CO "HOT SPOT" ANALYSIS

As discussed below, the Project would not result in potentially adverse CO concentrations or "hot spots." Further, detailed modeling of Project-specific CO "hot spots" is not needed to reach this conclusion. An adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

It has long been recognized that CO hotspots are caused by vehicular emissions, primarily when idling at congested intersections. In response, vehicle emissions standards have become increasingly stringent in the last twenty years. Currently, the allowable CO emissions standard in California is a maximum of 3.4 grams/mile for passenger cars (there are requirements for certain vehicles that are more stringent). With the turnover of older vehicles, introduction of cleaner fuels, and implementation of increasingly sophisticated and efficient emissions control technologies, CO concentration in the SCAB is now designated as attainment. To establish a more accurate record of baseline CO concentrations affecting the SCAB, a CO "hot spot" analysis was conducted in 2003 for four busy intersections in Los Angeles at the peak morning and afternoon time periods. This "hot spot" analysis did not predict any violation of CO standards, as shown on Table 9.

TABLE 9: CO MODEL RESULTS

Intersection Location	CO Concentrations (ppm)					
intersection Location	Morning 1-hour	Afternoon 1-hour	8-hour			
Wilshire Boulevard/Veteran Avenue	4.6	3.5	3.7			
Sunset Boulevard/Highland Avenue	4	4.5	3.5			
La Cienega Boulevard/Century Boulevard	3.7	3.1	5.2			
Long Beach Boulevard/Imperial Highway	3	3.1	8.4			

Notes: Federal 1-hour standard is 35 ppm and the deferral 8-hour standard is 9.0 ppm.

Based on the SCAQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SCAB were a result of unusual meteorological and topographical conditions and not a result of traffic volumes and congestion at a particular intersection. As evidence of this, for example, 8.4 ppm 8-hr CO concentration measured at the Long Beach Blvd. and Imperial Hwy. intersection (highest CO generating intersection within the "hot spot" analysis), only 0.7 ppm was attributable to the traffic volumes and congestion at this intersection; the remaining 7.7 ppm were due to the ambient air measurements at the time the 2003 AQMP was prepared (25). In contrast, an adverse CO concentration, known as a "hot spot", would occur if an exceedance of the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm were to occur.

479/944

756/1,150

4,212/5,514

Similar considerations are also employed by other Air Districts when evaluating potential CO concentration impacts. More specifically, the Bay Area Air Quality Management District (BAAQMD) concludes that under existing and future vehicle emission rates, a given project would have to increase traffic volumes at a single intersection by more than 44,000 vehicles per hour (vph)—or 24,000 vph where vertical and/or horizontal air does not mix—in order to generate a significant CO impact (26). Traffic volumes generating the CO concentrations for the "hot spot" analysis is shown on Table 8. The busiest intersection evaluated was that at Wilshire Boulevard and Veteran Avenue, which has a daily traffic volume of approximately 100,000 vph and AM/PM traffic volumes of 8,062 vph and 7,719 vph respectively (27). The 2003 AQMP estimated that the 1-hour concentration for this intersection was 4.6 ppm; this indicates that, should the daily traffic volume increase four times to 400,000 vehicles per day, CO concentrations (4.6 ppm x 4= 18.4 ppm) would still not likely exceed the most stringent 1-hour CO standard (20.0 ppm).

Peak Traffic Volumes (vph) Intersection Location Eastbound Westbound Southbound Northbound Total (AM/PM) (AM/PM) (AM/PM) (AM/PM) (AM/PM) Wilshire Boulevard/Veteran Avenue 4,954/2,069 1,830/3,317 721/1,400 560/933 8,062/7,719 Sunset Boulevard/Highland Avenue 1,417/1,764 1,342/1,540 2,304/1,832 1.551/2.238 6,614/5,374 La Cienega Boulevard/Century Boulevard 2,540/2,243 1,890/2,728 1,384/2,029 821/1,674 6,634/8,674

TABLE 10: CO MODEL RESULTS

AIR QUALITY IMPACTS - CONSISTENCY WITH THRESHOLD NO. 4

1,217/2,020

Would the Project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?

1,760/1,400

The potential for the Project to generate objectionable odors has also been considered. Land uses generally associated with odor complaints include:

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants

Long Beach Boulevard/Imperial Highway

- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction



equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construct ion. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (28).

PROJECT GHG ANALYSIS

CLIMATE CHANGE SETTING

Global climate change (GCC) is the change in average meteorological conditions on the earth with respect to temperature, precipitation, and storms. The majority of scientists believe that the climate shift taking place since the Industrial Revolution is occurring at a quicker rate and magnitude than in the past. Scientific evidence suggests that GCC is the result of increased concentrations of GHGs in the earth's atmosphere, including carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O_1), and fluorinated gases. The majority of scientists believe that this increased rate of climate change is the result of GHGs resulting from human activity and industrialization over the past 200 years.

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

GCC refers to the change in average meteorological conditions on the earth with respect to temperature, wind patterns, precipitation and storms. Global temperatures are regulated by naturally occurring atmospheric gases such as water vapor, CO_2 , N_2O , CH_4 , hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). These particular gases are important due to their residence time (duration they stay) in the atmosphere, which ranges from 10 years to more than 100 years. These gases allow solar radiation into the earth's atmosphere, but prevent radioactive heat from escaping, thus warming the earth's atmosphere. GCC can occur naturally as it has in the past with the previous ice ages.

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

For the purposes of this analysis, emissions of CO_2 , CH_4 , and N_2O were evaluated because these gases are the primary contributors to GCC from development projects. Although there are other substances such as fluorinated gases that also contribute to GCC, these fluorinated gases were not evaluated as their sources are not well-defined and do not contain accepted emissions factors or methodology to accurately calculate these gases.

REGULATORY SETTING

Executive Order S-3-05

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

• By 2010, reduce GHG emissions to 2000 levels.



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

The 2050 reduction goal represents what some scientists believe is necessary to reach levels that will stabilize the climate. The 2020 goal was established to be a mid-term target. Because this is an executive order, the goals are not legally enforceable for local governments or the private sector.

Assembly Bill (AB) 32

The California State Legislature enacted AB 32, which requires that GHGs emitted in California be reduced to 1990 levels by the year 2020. "GHGs" as defined under AB 32 include CO₂, CH₄, N₂O, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). Since AB 32 was enacted, a seventh chemical, nitrogen trifluoride, has also been added to the list of GHGs. CARB is the state agency charged with monitoring and regulating sources of GHGs. Pursuant to AB 32, CARB adopted regulations to achieve the maximum technologically feasible and cost-effective GHG emission reductions. AB 32 states the following:

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

CARB approved the 1990 GHG emissions level of 427 million metric ton of CO_2 equivalent per year (MMTCO₂e) on December 6, 2007 (29). Therefore, emissions generated in California in 2020 are required to be equal to or less than 427 MMTCO₂e. Emissions in 2020 in a "business as usual" (BAU) scenario were estimated to be 596 MMTCO₂e, which do not account for reductions from AB 32 regulations (30). At that level, a 28.4% reduction was required to achieve the 427 MMTCO₂e 1990 inventory. In October 2010, CARB prepared an updated BAU 2020 forecast to account for the recession and slower forecasted growth. The forecasted inventory without the benefits of adopted regulation is now estimated at 545 MMTCO₂e. Therefore, under the updated forecast, a 21.7% reduction from BAU is required to achieve 1990 levels (31).

Progress in Achieving AB 32 Targets and Remaining Reductions Required

The State has made steady progress in implementing AB 32 and achieving targets included in Executive Order S-3-05. The progress is shown in updated emission inventories prepared by CARB for 2000 through 2012 (32). The State has achieved the Executive Order S-3-05 target for 2010 of reducing GHG emissions to 2000 levels. As shown below, the 2010 emission inventory achieved this target.

- 1990: 427 MMTCO₂e (AB 32 2020 target)
- 2000: 463 MMTCO₂e (an average 8% reduction needed to achieve 1990 base)
- 2010: 450 MMTCO₂e (an average 5% reduction needed to achieve 1990 base)

CARB has also made substantial progress in achieving its goal of achieving 1990 emissions levels by 2020. As described earlier in this section, CARB revised the 2020 BAU inventory forecast to account for new lower growth projections, which resulted in a new lower reduction from BAU to achieve the 1990 base. The previous reduction from 2020 BAU needed to achieve 1990 levels was 28.4% and the latest reduction from 2020 BAU is 21.7%.

 2020: 545 MMTCO₂e BAU (an average 21.7% reduction from BAU needed to achieve 1990 base)

Senate Bill (SB) 32

On September 8, 2016, Governor Jerry Brown signed the SB 32 and its companion bill, AB 197. SB 32 requires the state to reduce statewide GHG emissions to 40% below 1990 levels by 2030, a reduction target that was first introduced in Executive Order B-30-15. The new legislation builds upon the AB 32 goal of 1990 levels by 2020 and provides an intermediate goal to achieving S-3-05, which sets a statewide GHG reduction target of 80% below 1990 levels by 2050. AB 197 creates a legislative committee to oversee regulators to ensure that CARB not only responds to the Governor, but also the Legislature (33).

AB 197

A condition of approval for SB 32 was the passage of AB 197. AB 197 requires that CARB consider the social costs of GHG emissions and prioritize direct reductions in GHG emissions at mobile sources and large stationary sources. AB 197 also gives the California legislature more oversight over CARB through the addition of two legislatively appointed members to the CARB Board and the establishment a legislative committee to make recommendations about CARB programs to the legislature.

Executive Order B-55-18 and SB 100

Executive Order B-55-18 and SB 100. SB 100 and Executive Order B-55-18 were signed by Governor Brown on September 10, 2018. Under the existing RPS, 25% of retail sales are required to be from renewable sources by December 31, 2016, 33% by December 31, 2020, 40% by December 31, 2024, 45% by December 31, 2027, and 50% by December 31, 2030. SB 100 raises California's RPS requirement to 50% renewable resources target by December 31, 2026, and to achieve a 60% target by December 31, 2030. SB 100 also requires that retail sellers and local publicly owned electric utilities procure a minimum quantity of electricity products from eligible renewable energy resources so that the total kilowatt hours of those products sold to their retail end-use customers achieve 44% of retail sales by December 31, 2024, 52% by December 31, 2027, and 60% by December 31, 2030. In addition to targets under AB 32 and SB 32, Executive Order B-55-18 establishes a carbon neutrality goal for the state of California by 2045; and sets a goal to maintain net negative emissions thereafter. The Executive Order directs the California Natural Resources Agency (CNRA), California Environmental Protection Agency (CalEPA), the Department of Food and Agriculture (CDFA), and CARB to include sequestration targets in the Natural and Working Lands Climate Change Implementation Plan consistent with the carbon neutrality goal.

Title 24 California Code of Regulations (CCR)

California Code of Regulations (CCR) Title 24 Part 6: The California Energy Code was first adopted in 1978 in response to a legislative mandate to reduce California's energy consumption.



The standards are updated periodically to allow consideration and possible incorporation of new energy efficient technologies and methods. CCR, Title 24, Part 11: California Green Building Standards Code (CALGreen) is a comprehensive and uniform regulatory code for all residential, industrial, commercial, and school buildings that went in effect on August 1, 2009, and is administered by the California Building Standards Commission.

CALGreen is updated on a regular basis, with the most recent approved update consisting of the 2022 California Green Building Code Standards that was effective on January 1, 2023⁵. As construction of the Project is anticipated to be completed in 2024, the Project would be required to comply with the Title 24 standards in place at that time.

SCAQMD

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

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

- Tier 1 consists of evaluating whether or not the project qualifies for any applicable exemption under CEQA.
- Tier 2 consists of determining whether the project is consistent with a GHG reduction plan. If a project is consistent with a qualifying local GHG reduction plan, it does not have significant GHG emissions.
- Tier 3 consists of screening values, which the lead agency can choose, but must be
 consistent with all projects within its jurisdiction. A project's construction emissions are
 averaged over 30 years and are added to the project's operational emissions. If a project's
 emissions are below one of the following screening thresholds, then the project is less
 than significant:
 - \circ Residential and commercial land use: 3,000 metric ton of CO₂ equivalent (MTCO₂e/yr)

⁵ The 2022 California Green Building Standard Code will be published July 1, 2022.



- o Industrial land use: 10,000 MTCO₂e/yr
- Based on land use type: residential: 3,500 MTCO₂e/yr; commercial: 1,400 MTCO₂e/yr; or mixed use: 3,000 MTCO₂e/yr
- Tier 4 has the following options:
 - o Option 1: Reduce Business-as-Usual (BAU) emissions by a certain percentage; this percentage is currently undefined.
 - o Option 2: Early implementation of applicable AB 32 Scoping Plan measures
 - o Option 3: 2020 target for service populations (SP), which includes residents and employees: 4.8 MTCO₂e per SP per year for projects and 6.6 MTCO₂e per SP per year for plans;
 - o Option 3, 2035 target: 3.0 MTCO₂e per SP per year for projects and 4.1 MTCO₂e per SP per year for plans
- Tier 5 involves mitigation offsets to achieve target significance threshold.

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

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

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

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

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

GHG IMPACTS

Standards of Significance

According to the CEQA Guidelines Appendix G thresholds, to determine whether impacts from GHG emissions are significant. Would the project:

- **Threshold 1**: Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- **Threshold 2**: Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

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

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

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

- **Consideration #1:** The extent to which the project may increase or reduce greenhouse gas emissions as compared to the existing environmental setting.
- **Consideration #2:** Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
- Consideration #3: The extent to which the project complies with regulations or requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions. Such regulations or requirements must be adopted by the relevant public agency through a public review process and must reduce or mitigate the project's incremental contribution of greenhouse gas emissions. In determining the significance of impacts, the lead agency may consider a project's consistency with the State's long-term climate goals or strategies, provided that substantial evidence supports the agency's analysis of how those goals or strategies address the project's incremental contribution to climate change and its conclusion that the project's incremental contribution is not cumulatively considerable.

Discussion on Establishment of Significance Thresholds

Based on the foregoing guidance, the City of Industry has elected to rely on compliance with a local air district threshold in the determination of significance of Project-related GHG emissions. Specifically, the City has selected the interim 3,000 MTCO₂e per year threshold recommended by SCAQMD staff for residential and commercial sector projects against which to compare Project-related GHG emissions.

The 3,000 MTCO₂e per year threshold is based on a 90 percent emission "capture" rate methodology. Prior to its use by the SCAQMD, the 90 percent emissions capture approach was one of the options suggested by the California Air Pollution Control Officers Association (CAPCOA) in their CEQA & Climate Change white paper (2008). A 90 percent emission capture rate means that unmitigated GHG emissions from the top 90 percent of all GHG-producing projects within a geographic area - the SCAB in this instance - would be subject to a detailed analysis of potential environmental impacts from GHG emissions, while the bottom 10 percent of all GHG-producing projects would be excluded from detailed analysis. A GHG significance threshold based on a 90 percent emission capture rate is appropriate to address the long-term adverse impacts associated with global climate change because medium and large projects will be required to implement measures to reduce GHG emissions, while small projects, which are generally infill development projects that are not the focus of the State's GHG reduction targets, are allowed to proceed. Further, a 90 percent emission capture rate sets the emission threshold low enough to capture a substantial proportion of future development projects and demonstrate that cumulative emissions reductions are being achieved while setting the emission threshold high enough to exclude small projects that will, in aggregate, contribute approximate 1 percent of projected statewide GHG emissions in the Year 2050 (34).

In setting the threshold at 3,000 MTCO₂e per year, SCAQMD researched a database of projects kept by the Governor's Office of Planning and Research (OPR). That database contained 798 projects, 87 of which were removed because they were very large projects and/or outliers that would skew emissions values too high, leaving 711 as the sample population to use in determining the 90th percentile capture rate. The SCAQMD analysis of the 711 projects within the sample population combined commercial, residential, and mixed-use projects. It should be noted that the sample of projects included warehouses and other light industrial land uses but did not include industrial processes (i.e., oil refineries, heavy manufacturing, electric generating stations, mining operations, etc.). Emissions from each of these projects were calculated by SCAQMD to provide a consistent method of emissions calculations across the sample population and from projects within the sample population. In calculating the emissions, the SCAQMD analysis determined that the 90th percentile ranged between 2,983 to 3,143 MTCO₂e per year. The SCAQMD set their significance threshold at the low-end value of the range when rounded to the nearest hundred tons of emissions (i.e., 3,000 MTCO₂e per year) to define small projects that are considered less than significant and do not need to provide further analysis.

The City understands that the 3,000 MTCO₂e per year threshold for residential/commercial uses was proposed by SCAQMD a decade ago and was adopted as an interim policy; however, no permanent, superseding policy or threshold has since been adopted. The 3,000 MTCO₂e per year threshold was developed and recommended by SCAQMD, an expert agency, based on substantial evidence as provided in the Draft Guidance Document – Interim CEQA Greenhouse Gas Significance Threshold (2008) document and subsequent Working Group meetings (latest of

which occurred in 2010). SCAQMD has not withdrawn its support of the interim threshold and all documentation supporting the interim threshold remains on the SCAQMD website on a page that provides guidance to CEQA practitioners for air quality analysis (and where all SCAQMD significance thresholds for regional and local criteria pollutants and toxic air contaminants also are listed). Further, as stated by SCAQMD, this threshold "uses the Executive Order S-3-05 goal [80 percent below 1990 levels by 2050] as the basis for deriving the screening level" and, thus, remains valid for use in 2022 (34). Lastly, this threshold has been used for hundreds, if not thousands of GHG analyses performed for projects located within the SCAQMD jurisdiction.

Thus, for purposes of analysis in this analysis, if Project-related GHG emissions do not exceed the 3,000 MTCO₂e per year threshold, then Project-related GHG emissions would clearly have a less-than-significant impact pursuant to Threshold GHG-1. On the other hand, if Project-related GHG emissions exceed 3,000 MTCO₂e per year, the Project would be considered a substantial source of GHG emissions.

GHG IMPACTS - CONSISTENCY WITH THRESHOLD NO. 1

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

PROJECT GHG EMISSIONS

The estimated GHG emissions for the Project land use are summarized on Table 8. The estimated GHG emission include emissions from Carbon Dioxide (CO_2), Methane (CH_4), Nitrous Oxide (N_2O), and Refrigerants (R). As shown on Table 11, the Project would generate a total of approximately 1,720.31 MTCO $_2e$ /yr. Detailed operation model outputs for the proposed Project are presented in Attachment A.

TABLE 11: TOTAL PROJECT GHG EMISSIONS

	Emission (lbs/day)					
Source	CO ₂	CH ₄	N ₂ O	R	Total CO₂e	
Annual construction-related emissions amortized over 30 years	18.23	6.67E-04	6.67E-04	8.33E-03	18.43	
Mobile	1,126.00	0.05	0.14	1.53	1,172.00	
Area	3.00	< 0.005	< 0.005	0.00	3.01	
Energy	314.00	0.03	< 0.005	0.00	316.00	
Water	59.40	1.11	0.03	0.00	95.20	
Waste	12.40	1.24	0.00	0.00	43.40	
Refrigerants	0.00	0.00	0.00	24.90	24.90	
On-Site Equipment	0.00	0.00	0.00	0.00	47.37	
Total CO₂e (All Sources)	1,720.31					

EXISTING BUILDING GHG EMISSIONS

The estimated GHG emissions from the existing buildings are summarized on Table 12. Detailed operation model outputs for the existing buildings are presented in Attachment C.

TABLE 12: EXISTING BUILDING GHG EMISSIONS

Source		Emission (lbs/day)			
	CO ₂	CH₄	N_2O	R	Total CO₂e
Mobile Source	185	0.01	0.02	0.26	192.00
Area Source	0.45	< 0.005	< 0.005	0.00	0.46
Energy Source	43.7	< 0.005	< 0.005	0.00	43.90
Water	8.75	0.17	< 0.005	0.00	14.10
Waste	1.85	0.18	0.00	0.00	6.47
Refrigerants	0.00	0.00	0.00	3.72	3.72
Total CO₂e (All Sources)	260.65				

PROJECT NET NEW GHG EMISSIONS - COMPARISON TO EXISTING BUILDING

Table 13 shows the Project is anticipated to generate slightly more GHG emissions per day for as compared to emissions generated by the existing building, additionally; the proposed Projects emissions would still be less than the applicable thresholds.

TABLE 13: PROJECT NET NEW GHG EMISSIONS

Emission Source	Total CO₂e		
Proposed Project	1,720.31		
Existing Building	260.65		
Net Emissions (Proposed - Existing)	1,459.66		

A numerical threshold for determining the significance of GHG emissions in the SCAB has not been established by the SCAQMD for Projects where it is not the lead agency. As an interim threshold based on guidance provided in the CAPCOA CEQA and Climate Change handbook, the City has opted to use a non-zero threshold approach based on Approach 2 of the handbook. Threshold 2.5 (Unit-Based Thresholds Based on Market Capture) establishes a numerical threshold based on capture of approximately 90% of emissions from future development. The latest threshold developed by SCAQMD using this method is 3,000 MTCO₂e/yr for all projects (35).

The Project would result in approximately a net 1,459.66 MTCO₂e/yr; the proposed Project would not exceed the SCAQMD's numeric threshold of 3,000 MTCO₂e/yr. Thus, the Project would result in a less than significant impact with respect to GHG emissions.

GHG IMPACTS - CONSISTENCY WITH THRESHOLD NO. 2

Would the Project have the potential to conflict with any applicable plan, policy or regulation of an agency adopted for the purpose of reducing the emissions of GHGs?

Pursuant to 15604.4 of the CEQA Guidelines, a lead agency may rely on qualitative analysis or performance-based standards to determine the significance of impacts from GHG emissions (36).

The 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan) lays out a path to achieve targets for carbon neutrality and reduce anthropogenic greenhouse gas (GHG) emissions by 85 percent below 1990 levels no later than 2045, as directed by Assembly Bill 1279. The actions and outcomes in the plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels, further reductions in short-lived climate pollutants, support for sustainable development, increased action on natural and working lands to reduce emissions and sequester carbon, and the capture and storage of carbon (37).

Finally, the Project is consistent with the general plan land use designation, density, building intensity, and applicable policies specified for the Project area in SCAG's Sustainable Community Strategy/ Regional Transportation Plan, which pursuant to SB 375 calls for the integration of transportation, land-use and housing policies to plan for achievement of the GHG-emissions target for the region. Thus, a less than significant impact related to GHG emissions from Project construction and operation would occur and no mitigation is required.

CONCLUSION

Results of the assessment indicate that the Project is not anticipated to result in a significant impact during construction or operational activities associated with air quality and GHG.



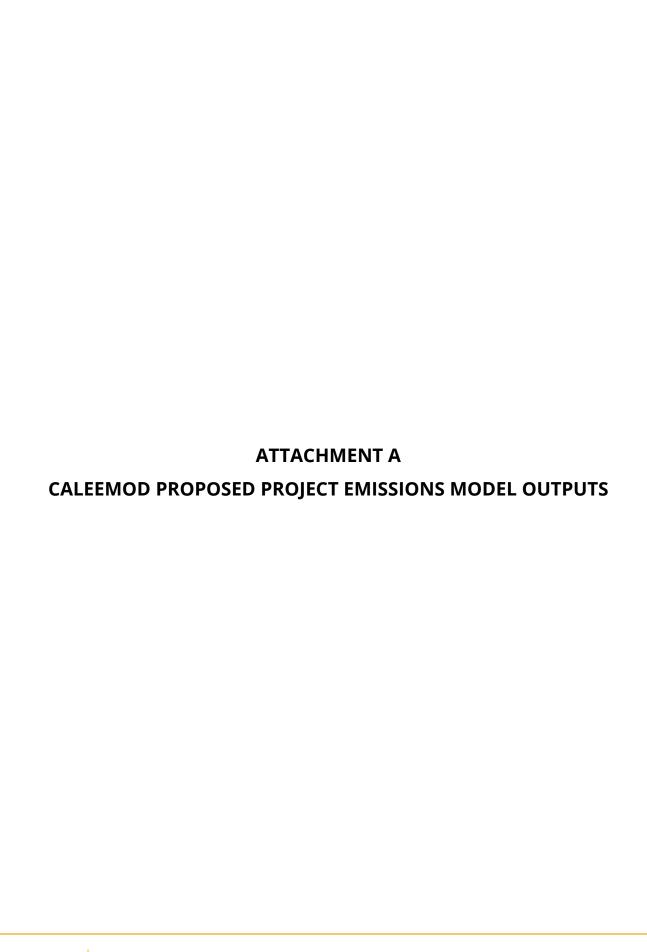
REFERENCES

- 1. **South Coast Air Quality Management District.** Southern California Air Basins. [Online] https://www.arb.ca.gov/msprog/onroad/porttruck/maps/scabc7map.pdf.
- 2. Ralph Propper, Patrick Wong, Son Bui, Jeff Austin, William Vance, Alvaro Alvarado, Bart Croes, and Dongmin Luo. Ambient and Emission Trends of Toxic Air Contaminants in California. *American Chemical Society: Environmental Science & Technology.* 2015.
- 3. **United States Environmental Protection Agency.** National Ambient Air Quality Standards (NAAQS). [Online] 1990. https://www.epa.gov/environmental-topics/air-topics.
- 4. **Environmental Protection Agency.** Air Pollution and the Clean Air Act. [Online] http://www.epa.gov/air/caa/.
- 5. 1990 Clean Air Act Amendment Summary: Title I. [Online] https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-i.
- 6. United States Environmental Protection Agency. 1990 Clean Air Act Amendment Summary: Title II. [Online] https://www.epa.gov/clean-air-act-overview/1990-clean-air-act-amendment-summary-title-ii.
- 7. Air Resources Board. California Ambient Air Quality Standards (CAAQS). [Online] 2009. [Cited: April 16, 2018.] http://www.arb.ca.gov/research/aaqs/caaqs/caaqs.htm.
- 8. Environmental Protection Agency. National Ambient Air Quality Standards (NAAQS). [Online] 1990. https://www.epa.gov/environmental-topics/air-topics.
- 9. Southern California Association of Governments. 2016-2040 Regional Transportation Plan/Sustainable Communities Strategy. [Online] April 2016. http://scagrtpscs.net/Documents/2016/final/f2016RTPSCS.pdf.
- 10. South Coast Air Quality Management District. RULE 403. FUGITIVE DUST. [Online] https://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-403.pdf?sfvrsn=4.
- 11. —. RULE 1113. Architectural Coatings. [Online] http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/r1113.pdf.
- 12. California Air Pollution Control Officers Association (CAPCOA). California Emissions Estimator Model (CalEEMod). [Online] May 2022. www.caleemod.com.
- 13. State of California. 2020 CEQA California Environmental Quality Act. 2020.
- 14. South Coast Air Quality Management District (SCAQMD). SCAQMD Air Quality Significance Thresholds. [Online] http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf?sfvrsn=2.
- 15. California Air Pollution Control Officers Association (CAPCOA). Appendix A: Calculation Details for CalEEMod. [Online] http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6.
- 16. State of California. 2020 CEOA California Environmental Quality Act. 2020.



- 17. Institute of Transportation Engineers. *Trip Generation Manual*. 11th Edition. 2021.
- 18. South Coast Air Quality Management District. SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Busniess Survey Results. 2014.
- 19. —. Localized Significance Thresholds Methodology. s.l.: South Coast Air Quality Managment District, 2003.
- 20. —. Final 2016 Air Quality Management Plan (AQMP). [Online] March 2017. http://www.aqmd.gov/docs/default-source/clean-air-plans/air-quality-management-plans/2016-air-quality-management-plan/final-2016-aqmp/final2016aqmp.pdf?sfvrsn=11.
- 21. Southern California Association of Governments. 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy. [Online] September 2020. https://scag.ca.gov/sites/main/files/file-attachments/0903fconnectsocal-plan 0.pdf?1606001176.
- 22. South Coast Air Quality Management District. CEQA Air Quality Handbook (1993). 1993.
- 23. City of Industry. City of Industry General Plan. [Online] 2014. https://www.cityofindustry.org/home/showpublisheddocument/1693/636422096 213600000.
- 24. Goss, Tracy A and Kroeger, Amy. White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution. [Online] South Coast Air Quality Management District, 2003. http://www.aqmd.gov/rules/ciwg/final_white_paper.pdf.
- 25. South Coast Air Quality Management District. 2003 Air Quality Management Plan. [Online] 2003. https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp.
- 26. Bay Area Air Quality Management District. [Online] http://www.baaqmd.gov/.
- 27. South Coast Air Quality Management District. 2003 Air Quality Management Plan. [Online] 2003. https://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan/2003-aqmp.
- 28. —. RULE 402 NUISANCE. [Online] http://www.aqmd.gov/docs/default-source/rule-book/rule-iv/rule-402.pdf.
- 29. California Air Resources Board. GHG 1990 Emissions Level & 2020 Limit. *California Air Resources Board*. [Online] https://ww2.arb.ca.gov/ghg-2020-limit.
- 30. —. Climate Change Draft Scoping Plan. 2008.
- 31. —. STATUS OF SCOPING PLAN RECOMMENDED MEASURES. [Online] [Cited: September 19, 2019.] https://ww3.arb.ca.gov/cc/scopingplan/status_of_scoping_plan_measures.pdf.
- 32. —. First Update to the Climate Change Scoping Plan. 2014.

- 33. California Legislative Information. Senate Bill No. 32. [Online] September 8, 2016. https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201520160SB3 2.
- 34. South Coast Air Quality Management District. *Interim CEQA GHG Significnace Threshold for Stationary Sources, Rules and Plans.* Diamond Bar: s.n., 2008.
- 35. —. Interim CEQA GHG Threshold for Stationary Sources, Rules and Plans. [Online]
 December 5, 2008. http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/ghgboardsynopsis.pdf.
- 36. Association of Environmental Professionals. 2018 CEQA California Environmental Quality Act. 2018.
- 37. California Air Resources Board. 2022 Scopuing Plan Documents. [Online] https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/2022-scoping-plan-documents.



15076 - Nelson Ave (Proposed) Tier 4 Equipment 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
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
- 3. Construction Emissions Details
 - 3.1. Demolition (2023) Unmitigated
 - 3.3. Site Preparation (2023) Unmitigated
 - 3.5. Grading (2023) Unmitigated
 - 3.7. Building Construction (2023) Unmitigated

- 3.9. Building Construction (2024) Unmitigated
- 3.11. Paving (2024) Unmitigated
- 3.13. Architectural Coating (2024) 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
 - 5.1. 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
- 5.9. 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	15076 - Nelson Ave (Proposed) Tier 4 Equipment
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	22.4
Location	15100 Nelson Ave E, City of Industry, CA 91744, USA
County	Los Angeles-South Coast
City	Industry
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5012
EDFZ	7
Electric Utility	City of Industry
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	148	1000sqft	3.39	147,730	46,357	_	_	_
Parking Lot	300	Space	2.70	0.00	0.00	_	_	_

Other Asphalt Surfaces	2.70	Acre	2.70	0.00	0.00	_	_	_
User Defined Industrial	148	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

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	co	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.25	39.4	19.4	34.7	0.05	0.40	5.90	6.00	0.38	2.74	2.85	_	6,196	6,196	0.25	0.19	6.64	6,257
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.79	0.70	11.1	20.4	0.03	0.15	2.46	2.58	0.15	0.98	1.10	_	4,101	4,101	0.17	0.14	0.14	4,146
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.38	2.45	5.54	10.4	0.02	0.09	0.59	0.64	0.08	0.21	0.26	_	2,056	2,056	0.09	0.07	1.09	2,079
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Unmit.	0.07	0.45	1.01	1.89	< 0.005	0.02	0.11	0.12	0.02	0.04	0.05	_	340	340	0.01	0.01	0.18	344

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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	0.78	0.76	15.8	31.4	0.05	0.39	5.90	6.00	0.36	2.74	2.85	_	5,815	5,815	0.24	0.19	3.16	5,839
2024	1.25	39.4	19.4	34.7	0.05	0.40	1.33	1.73	0.38	0.32	0.70	_	6,196	6,196	0.25	0.16	6.64	6,257
Daily - Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	0.79	0.70	11.1	20.4	0.03	0.15	2.46	2.58	0.15	0.98	1.10	_	4,101	4,101	0.17	0.14	0.14	4,146
2024	0.75	0.69	10.6	20.0	0.03	0.15	0.97	1.13	0.15	0.24	0.38	_	4,074	4,074	0.17	0.14	0.13	4,119
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2023	0.21	0.20	3.54	6.40	0.01	0.06	0.59	0.64	0.05	0.21	0.26	_	1,251	1,251	0.05	0.03	0.44	1,263
2024	0.38	2.45	5.54	10.4	0.02	0.09	0.48	0.56	0.08	0.11	0.20	_	2,056	2,056	0.09	0.07	1.09	2,079
Annual	_	_	_	_	_	<u> </u>	_	_	_	_	_	-	_	_	_	_	_	_
2023	0.04	0.04	0.65	1.17	< 0.005	0.01	0.11	0.12	0.01	0.04	0.05	_	207	207	0.01	0.01	0.07	209
2024	0.07	0.45	1.01	1.89	< 0.005	0.02	0.09	0.10	0.02	0.02	0.04	_	340	340	0.01	0.01	0.18	344

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	TOG	ROG		СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	2.44	5.28	9.85	17.5	0.09	0.18	1.73	1.91	0.18	0.38	0.56	140	11,561	11,701	14.8	1.35	180	12,653
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.29	4.22	10.2	10.5	0.09	0.17	1.73	1.90	0.17	0.38	0.54	140	11,468	11,608	14.8	1.36	151	12,533

Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.75	4.72	7.80	12.4	0.07	0.15	1.26	1.41	0.15	0.28	0.42	140	9,012	9,152	14.7	1.04	160	9,988
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.32	0.86	1.42	2.26	0.01	0.03	0.23	0.26	0.03	0.05	0.08	23.2	1,492	1,515	2.43	0.17	26.5	1,654

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	1.22	0.80	9.03	10.4	0.09	0.11	1.73	1.84	0.11	0.38	0.49	_	9,342	9,342	0.39	1.18	29.2	9,733
Area	1.14	4.44	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	26.5
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	2.44	5.28	9.85	17.5	0.09	0.18	1.73	1.91	0.18	0.38	0.56	140	11,561	11,701	14.8	1.35	180	12,653
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	1.21	0.79	9.43	9.82	0.09	0.11	1.73	1.84	0.11	0.38	0.49	_	9,276	9,276	0.39	1.19	0.76	9,640
Area	_	3.39	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	_	_										_	_	151	151

Total	1.29	4.22	10.2	10.5	0.09	0.17	1.73	1.90	0.17	0.38	0.54	140	11,468	11,608	14.8	1.36	151	12,533
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.88	0.58	6.99	7.31	0.06	0.08	1.26	1.35	0.08	0.28	0.36	_	6,802	6,802	0.29	0.87	9.23	7,077
Area	0.78	4.11	0.04	4.40	< 0.005	0.01	_	0.01	0.01	_	0.01	_	18.1	18.1	< 0.005	< 0.005	_	18.2
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	1.75	4.72	7.80	12.4	0.07	0.15	1.26	1.41	0.15	0.28	0.42	140	9,012	9,152	14.7	1.04	160	9,988
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.16	0.11	1.28	1.33	0.01	0.02	0.23	0.25	0.01	0.05	0.06	_	1,126	1,126	0.05	0.14	1.53	1,172
Area	0.14	0.75	0.01	0.80	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.00	3.00	< 0.005	< 0.005	_	3.01
Energy	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	314	314	0.03	< 0.005	_	316
Water	_	_	_	_	_	_	_	_	_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2
Waste	_	_	_	_	_	_	_	_	_	_	_	12.4	0.00	12.4	1.24	0.00	_	43.4
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9
Total	0.32	0.86	1.42	2.26	0.01	0.03	0.23	0.26	0.03	0.05	0.08	23.2	1,492	1,515	2.43	0.17	26.5	1,654

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Location	TOG	ROG		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		0.56	12.0	18.2	0.03	0.37	_	0.37	0.35	_	0.35	_	3,425	3,425	0.14	0.03	_	3,437
Demolitio n	_	_	_	_	-	_	1.07	1.07	_	0.16	0.16	_	_	_	-	-	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.03	0.66	1.00	< 0.005	0.02	_	0.02	0.02	_	0.02	_	188	188	0.01	< 0.005	_	188
Demolitio n	_	_	_	_	_	_	0.06	0.06	_	0.01	0.01	_	_	_	_	_	-	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	-	_	_	_	_	_	_	_	_	_	-	-	_	_	-
Worker	0.08	0.07	0.08	1.23	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	217	217	0.01	0.01	0.92	220
Vendor	0.01	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	-	65.5	65.5	< 0.005	0.01	0.17	68.3
Hauling	0.07	0.02	1.17	0.44	0.01	0.01	0.24	0.25	0.01	0.06	0.08	_	910	910	0.05	0.14	2.07	956

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	3.59	3.59	< 0.005	< 0.005	< 0.005	3.74
Hauling	< 0.005	< 0.005	0.07	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	49.9	49.9	< 0.005	0.01	0.05	52.3
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.89	1.89	< 0.005	< 0.005	< 0.005	1.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.59	0.59	< 0.005	< 0.005	< 0.005	0.62
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	8.25	8.25	< 0.005	< 0.005	0.01	8.66

3.3. Site Preparation (2023) - Unmitigated

Location	TOG	ROG	NOx	co				PM10T	PM2.5E		PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.68	15.7	30.0	0.05	0.10	_	0.10	0.10	_	0.10	_	5,530	5,530	0.22	0.04	_	5,549
Dust From Material Movemen	_	_	_	_	_	_	5.66	5.66	_	2.69	2.69	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.02	0.47	0.90	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	167	167	0.01	< 0.005	_	167
Dust From Material Movement	_	_	_	_	_	_	0.17	0.17	_	0.08	0.08	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen	< 0.005 t	< 0.005	0.09	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	27.6	27.6	< 0.005	< 0.005	_	27.7
Dust From Material Movement	_	_	_	_	_	_	0.03	0.03	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.08	0.09	1.43	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	253	253	0.01	0.01	1.07	257
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	32.7	32.7	< 0.005	< 0.005	0.09	34.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	7.32	7.32	< 0.005	< 0.005	0.01	7.42
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.99	0.99	< 0.005	< 0.005	< 0.005	1.03

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.21	1.21	< 0.005	< 0.005	< 0.005	1.23
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.16	0.16	< 0.005	< 0.005	< 0.005	0.17
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	<u> </u>	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - 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		0.45	11.0	19.0	0.03	0.12	_	0.12	0.12	_	0.12	_	3,134	3,134	0.13	0.03	_	3,144
Dust From Material Movemen	<u> </u>	_	_	_	_	_	2.26	2.26	_	0.94	0.94	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.45	11.0	19.0	0.03	0.12	_	0.12	0.12	_	0.12	_	3,134	3,134	0.13	0.03	_	3,144
Dust From Material Movemen	_	_	_	_	_	_	2.26	2.26	_	0.94	0.94	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.04	0.88	1.51	< 0.005	0.01	_	0.01	0.01	_	0.01	_	249	249	0.01	< 0.005	_	250
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.18	0.18	_	0.07	0.07	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.01	0.16	0.28	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	41.2	41.2	< 0.005	< 0.005	_	41.4
Dust From Material Movemen	<u> </u>	_	_	_	_	_	0.03	0.03	_	0.01	0.01	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.08	0.07	0.08	1.23	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	217	217	0.01	0.01	0.92	220
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	32.7	32.7	< 0.005	< 0.005	0.09	34.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.08	0.07	0.09	1.04	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	205	205	0.01	0.01	0.02	208
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	32.7	32.7	< 0.005	< 0.005	< 0.005	34.1
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	16.5	16.5	< 0.005	< 0.005	0.03	16.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	2.60	2.60	< 0.005	< 0.005	< 0.005	2.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	2.74	2.74	< 0.005	< 0.005	0.01	2.78
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	0.43	0.43	< 0.005	< 0.005	< 0.005	0.45
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2023) - Unmitigated

	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.39	9.51	15.7	0.03	0.15	_	0.15	0.14	_	0.14	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.05	1.28	2.12	< 0.005	0.02	_	0.02	0.02	_	0.02	_	355	355	0.01	< 0.005	_	356
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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		0.01	0.23	0.39	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	58.8	58.8	< 0.005	< 0.005	_	59.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.35	0.29	0.38	4.30	0.00	0.00	0.81	0.81	0.00	0.19	0.19	_	849	849	0.04	0.03	0.10	859
Vendor	0.05	0.02	0.79	0.39	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	622	622	0.03	0.08	0.04	648
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.05	0.04	0.05	0.61	0.00	0.00	0.11	0.11	0.00	0.03	0.03	_	116	116	0.01	< 0.005	0.22	118
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	84.0	84.0	< 0.005	0.01	0.10	87.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	_	19.3	19.3	< 0.005	< 0.005	0.04	19.5
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	13.9	13.9	< 0.005	< 0.005	0.02	14.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2024) - Unmitigated

•		110 (1.07 0.0.	<i>y</i>	.,,, .		,		,,		, ,	J							
Locatio	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	9.51	15.7	0.03	0.15	_	0.15	0.14	_	0.14	-	2,630	2,630	0.11	0.02	-	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	-	-	_	-	_	_	_	_	-	_	-	_
Off-Road Equipmen		0.39	9.51	15.7	0.03	0.15	_	0.15	0.14	_	0.14	_	2,630	2,630	0.11	0.02	_	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	_	-	_	_	_	-	_	_	_	-	_	-	_	_	-	_	-	_
Off-Road Equipmen		0.19	4.52	7.45	0.01	0.07	_	0.07	0.07	_	0.07	_	1,251	1,251	0.05	0.01	_	1,255
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	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	0.83	1.36	< 0.005	0.01	_	0.01	0.01	_	0.01	-	207	207	0.01	< 0.005	_	208
Onsite truck	0.00	0.00	0.00	0.00	0.00	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	0.31	0.28	0.30	4.68	0.00	0.00	0.81	0.81	0.00	0.19	0.19	_	876	876	0.04	0.03	3.46	889
Vendor	0.05	0.02	0.72	0.35	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	-	613	613	0.03	0.08	1.66	640
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Worker	0.31	0.27	0.35	3.96	0.00	0.00	0.81	0.81	0.00	0.19	0.19	_	830	830	0.04	0.03	0.09	840
Vendor	0.05	0.02	0.75	0.36	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	_	613	613	0.03	0.08	0.04	639
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	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	0.15	0.13	0.17	1.98	0.00	0.00	0.38	0.38	0.00	0.09	0.09	_	401	401	0.02	0.01	0.71	406
Vendor	0.02	0.01	0.36	0.17	< 0.005	< 0.005	0.08	0.08	< 0.005	0.02	0.03	_	292	292	0.01	0.04	0.34	304
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.02	0.03	0.36	0.00	0.00	0.07	0.07	0.00	0.02	0.02	_	66.3	66.3	< 0.005	< 0.005	0.12	67.3
Vendor	< 0.005	< 0.005	0.07	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	48.3	48.3	< 0.005	0.01	0.06	50.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2024) - Unmitigated

Location	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.29	7.24	10.6	0.01	0.16	_	0.16	0.15	_	0.15	_	1,512	1,512	0.06	0.01	_	1,517
Paving	_	0.71	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	<u> </u>	<u> </u>	_	<u> </u>	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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 Equipmer		0.02	0.40	0.58	< 0.005	0.01	_	0.01	0.01	_	0.01	_	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	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmer		< 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	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.07	0.07	1.13	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	212	212	0.01	0.01	0.84	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	11.2	11.2	< 0.005	< 0.005	0.02	11.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.85	1.85	< 0.005	< 0.005	< 0.005	1.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2024) - Unmitigated

	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T			PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipmen		0.07	1.45	1.28	< 0.005	0.09	_	0.09	0.08	_	0.08	_	178	178	0.01	< 0.005	_	179
Architect ural Coatings	_	37.5	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
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 ural Coatings	_	2.06	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
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	_	0.38	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_
Worker	0.06	0.06	0.06	0.94	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	175	175	0.01	0.01	0.69	178
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	9.23	9.23	< 0.005	< 0.005	0.02	9.36
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.53	1.53	< 0.005	< 0.005	< 0.005	1.55
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. 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)	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.66	0.59	0.37	6.44	0.01	0.01	0.50	0.50	0.01	0.09	0.09	_	1,357	1,357	0.06	0.04	5.19	1,375
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	0.56	0.20	8.66	4.01	0.07	0.11	1.23	1.34	0.10	0.29	0.39	_	7,985	7,985	0.33	1.15	24.0	8,358
Total	1.22	0.80	9.03	10.4	0.09	0.11	1.73	1.84	0.11	0.38	0.49	_	9,342	9,342	0.39	1.18	29.2	9,733
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.65	0.59	0.42	5.81	0.01	0.01	0.50	0.50	0.01	0.09	0.09	_	1,290	1,290	0.06	0.04	0.13	1,303
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	0.55	0.20	9.01	4.01	0.07	0.11	1.23	1.34	0.10	0.29	0.39	_	7,986	7,986	0.33	1.15	0.62	8,337
Total	1.21	0.79	9.43	9.82	0.09	0.11	1.73	1.84	0.11	0.38	0.49	_	9,276	9,276	0.39	1.19	0.76	9,640
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.09	0.08	0.06	0.80	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	_	158	158	0.01	< 0.005	0.27	160
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	0.07	0.03	1.22	0.53	0.01	0.01	0.16	0.18	0.01	0.04	0.05	_	968	968	0.04	0.14	1.26	1,011
Total	0.16	0.11	1.28	1.33	0.01	0.02	0.23	0.25	0.01	0.05	0.06	_	1,126	1,126	0.05	0.14	1.53	1,172

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Land Use	TOG	ROG		со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	859	859	0.06	0.01	_	862

Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	128
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	_	_	_	_	_	_	_	_	_	_	_	_	986	986	0.07	0.01	_	991
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	859	859	0.06	0.01	-	862
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	128
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	_	_	_	_	_	_	_	_	_	_	_	_	986	986	0.07	0.01	_	991
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	142	142	0.01	< 0.005	_	143
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	21.2	21.2	< 0.005	< 0.005	_	21.3

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	_	_	_	_	_	_	_	_	_	_	_	_	163	163	0.01	< 0.005	_	164

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	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
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	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
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	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	151	151	0.01	< 0.005	_	152
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	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	151	151	0.01	< 0.005	_	152

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
				1 1														

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.18	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.14	1.05	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	26.5
Total	1.14	4.44	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	26.5
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.18	_	_	_	_	_	-	-	_	_	-	_	_	_	_	_	_
Architect ural Coatings	_	0.21	_	_	_	_	_	_	-	_	_	-	_	_	-	_	_	_
Total	_	3.39	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.58	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings		0.04	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.14	0.13	0.01	0.80	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.00	3.00	< 0.005	< 0.005	_	3.01

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

		its (Ib/da																
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	_	_	_	_	_	_	_	_		_	_	65.5	293	359	6.73	0.16	_	575
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	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
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	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_		_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2
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	_	_	_	_	_	_	_	_	_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2

4.5. Waste Emissions by Land Use

4.5.2. 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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou Rail	_		_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
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	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Daily, Winter (Max)	_	_	_	_	-	_	_	_	-	_	_	-	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	-	262
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	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	12.4	0.00	12.4	1.24	0.00	-	43.4

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	_	_	_	_	_	_	_	_	_	_	_	12.4	0.00	12.4	1.24	0.00	_	43.4

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

	TOG	ROG	NOx	со		PM10E			PM2.5E	PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Use																		
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_		_	_			_	_	_	151	151
Total	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	151	151
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_	151	151
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9

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)

Equipme nt Type			NOx	со						PM2.5D		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	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 annual)

Ontona				i i	1									000-	0111	Na O		000
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	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

Species	TOG	ROG	NOx	CO CO	SO2			b/day for PM10T				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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	8/1/2023	8/28/2023	5.00	20.0	20
Site Preparation	Site Preparation	8/29/2023	9/12/2023	5.00	11.0	10
Grading	Grading	9/13/2023	10/23/2023	5.00	29.0	20
Building Construction	Building Construction	10/24/2023	8/30/2024	5.00	224	230
Paving	Paving	8/3/2024	8/30/2024	5.00	20.0	20
Architectural Coating	Architectural Coating	8/3/2024	8/30/2024	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	Concrete/Industrial Saws	Diesel	Tier 3	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 3	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Interim	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Interim	3.00	8.00	367	0.40

Site Preparation	Crawler Tractors	Diesel	Tier 4 Interim	4.00	8.00	87.0	0.43
Grading	Excavators	Diesel	Tier 3	1.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 4 Interim	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 4 Interim	1.00	8.00	367	0.40
Grading	Crawler Tractors	Diesel	Tier 4 Interim	3.00	8.00	87.0	0.43
Building Construction	Cranes	Diesel	Tier 4 Interim	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 4 Interim	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Interim	3.00	8.00	84.0	0.37
Building Construction	Welders	Diesel	Tier 3	1.00	8.00	46.0	0.45
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 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Tier 3	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	_	_	_	_
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	2.00	10.2	HHDT,MHDT
Demolition	Hauling	12.7	20.0	HHDT
Demolition	Onsite truck	_	_	HHDT
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	1.00	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	1.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	62.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	19.0	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	12.4	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

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	221,595	73,865	14,113

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	22,040	_
Site Preparation	_	_	38.5	0.00	_
Grading	_	_	72.5	0.00	_
Paving	0.00	0.00	0.00	0.00	5.40

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%
Parking Lot	2.70	100%
Other Asphalt Surfaces	2.70	100%
User Defined Industrial	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	453	0.03	< 0.005
2024	0.00	453	0.03	< 0.005

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	164	14.3	5.76	43,800	1,840	161	64.6	491,354
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	88.6	7.83	3.10	23,679	2,701	239	94.5	721,506

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	221,595	73,865	14,113

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	691,430	453	0.0330	0.0040	2,847,665
Parking Lot	103,028	453	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	453	0.0330	0.0040	0.00
User Defined Industrial	0.00	453	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	34,162,563	650,138
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	139	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
=quipinionit Typo	1 doi 1990	Lingino rioi	rambor por Bay	riodio i oi Day	Tioroopowor	2000 1 00101

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
Equipment Type	I doi typo	realibor por Bay	riodro por Bay	Trodro por rodr	1 lordopowor	Load I dotor

5.16.2. Process Boilers

Employee and Employee	Earl Earl	Missanda a a	Delley Delley (MANADiss/ley)	Delle Heat Issue (MANADisc/slass)	A served I I and I served (NANAD (seeks))
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
 vegetation Land Ose Type	regetation soil type	Illitial Acres	Filidi Acies

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard Result for Project Location Unit

Temperature and Extreme Heat	17.8	annual days of extreme heat
Extreme Precipitation	5.80	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.48	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	71.8
AQ-PM	86.2
AQ-DPM	82.7
Drinking Water	94.7
Lead Risk Housing	83.4

Pesticides	0.00
Toxic Releases	85.4
Traffic	76.9
Effect Indicators	_
CleanUp Sites	89.7
Groundwater	99.3
Haz Waste Facilities/Generators	99.7
Impaired Water Bodies	58.7
Solid Waste	92.1
Sensitive Population	_
Asthma	48.3
Cardio-vascular	70.1
Low Birth Weights	8.15
Socioeconomic Factor Indicators	_
Education	72.5
Housing	52.1
Linguistic	72.5
Poverty	76.4
Unemployment	70.0

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	34.67214167
Employed	60.78532016
Median HI	30.61722058

Education	
	-
Bachelor's or higher	26.52380341
High school enrollment	7.006287694
Preschool enrollment	6.454510458
Transportation	_
Auto Access	71.35891184
Active commuting	75.24701655
Social	_
2-parent households	20.23610933
Voting	7.789041447
Neighborhood	_
Alcohol availability	71.26908764
Park access	4.439881945
Retail density	88.93879122
Supermarket access	13.56345438
Tree canopy	15.25728218
Housing	_
Homeownership	43.80854613
Housing habitability	49.98075196
Low-inc homeowner severe housing cost burden	95.4446298
Low-inc renter severe housing cost burden	26.31849095
Uncrowded housing	22.16091364
Health Outcomes	_
Insured adults	28.37161555
Arthritis	0.0
Asthma ER Admissions	53.5
High Blood Pressure	0.0

Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.0
Cognitively Disabled	33.5
Physically Disabled	39.7
Heart Attack ER Admissions	47.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	99.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	33.8
Elderly	74.7
English Speaking	46.4
Foreign-born	80.5
Outdoor Workers	73.3
	·

Climate Change Adaptive Capacity	_
Impervious Surface Cover	62.1
Traffic Density	80.7
Traffic Access	47.4
Other Indices	_
Hardship	68.8
Other Decision Support	_
2016 Voting	16.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	22.0
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.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

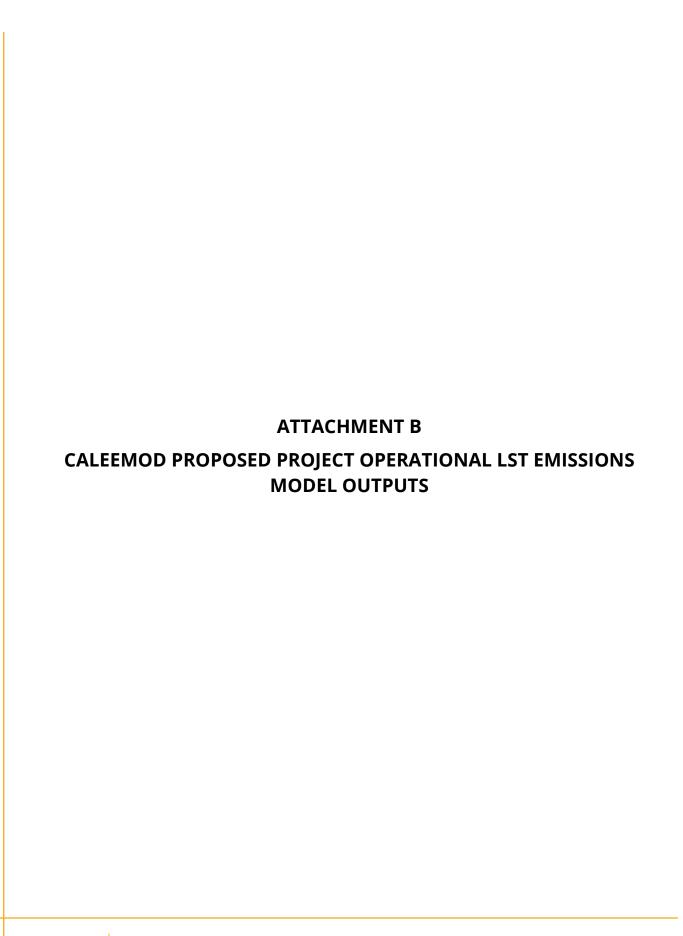
7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

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.

Screen	Justification
Construction: Construction Phases	Building Construction compressed to account for 2024 Opening Year. Building, Paving, and Architectural Coating overlap to present a conservative analysis.
Construction: Off-Road Equipment	T/L/Bs replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases. Standard 8 hours work days. PDF: off-road diesel construction equipment rated at 50 horsepower (hp) or greater, will comply with Environmental Protection Agency (EPA)/California Air Resources Board (CARB) Tier 4 off-road emissions standards or equivalent.
Construction: Trips and VMT	Vendor Trips adjusted based on CalEEMod defaults for Building Construction and number of days for Demolition, Site Preparation, Grading, and Building Construction
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trips taken from ITE 11th Edition.
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.



15076 - Nelson Ave (Operational LSTs) 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	15076 - Nelson Ave (Operational LSTs)
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	22.4
Location	15100 Nelson Ave E, City of Industry, CA 91744, USA
County	Los Angeles-South Coast
City	Industry
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5012
EDFZ	7
Electric Utility	City of Industry
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	148	1000sqft	3.39	147,730	46,357	_	_	_
Parking Lot	300	Space	2.70	0.00	0.00	_	_	_

Other Asphalt Surfaces	2.70	Acre	2.70	0.00	0.00	_	_	_
User Defined Industrial	148	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

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

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	-	_	_
Unmit.	1.78	4.97	1.86	8.95	0.01	0.07	0.02	0.09	0.07	< 0.005	0.07	140	2,426	2,566	14.4	0.21	151	3,141
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.63	3.91	1.86	2.76	0.01	0.06	0.02	0.08	0.06	< 0.005	0.06	140	2,400	2,540	14.4	0.21	151	3,115
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.26	4.50	1.59	6.55	0.01	0.07	0.01	0.08	0.07	< 0.005	0.07	140	2,362	2,502	14.4	0.20	151	3,074
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.23	0.82	0.29	1.20	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	23.2	391	414	2.39	0.03	24.9	509

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	0.55	0.49	1.04	1.88	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	207	207	0.07	0.04	0.25	220
Area	1.14	4.44	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	27.2
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	-	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	1.78	4.97	1.86	8.95	0.01	0.07	0.02	0.09	0.07	< 0.005	0.07	140	2,426	2,566	14.4	0.21	151	3,141
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	-
Mobile	0.55	0.49	1.09	2.11	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	208	208	0.07	0.04	0.01	221
Area	_	3.39	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	0.63	3.91	1.86	2.76	0.01	0.06	0.02	0.08	0.06	< 0.005	0.06	140	2,400	2,540	14.4	0.21	151	3,115
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.40	0.35	0.78	1.51	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	152	152	0.05	0.03	0.08	161
Area	0.78	4.11	0.04	4.40	< 0.005	0.01	_	0.01	0.01	_	0.01	_	18.1	18.1	< 0.005	< 0.005	_	18.6
Energy	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	1,899	1,899	0.15	0.01	_	1,906
Water	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Waste	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151

Total	1.26	4.50	1.59	6.55	0.01	0.07	0.01	80.0	0.07	< 0.005	0.07	140	2,362	2,502	14.4	0.20	151	3,074
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.07	0.06	0.14	0.28	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	25.1	25.1	0.01	< 0.005	0.01	26.7
Area	0.14	0.75	0.01	0.80	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.00	3.00	< 0.005	< 0.005	_	3.08
Energy	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	314	314	0.03	< 0.005	_	316
Water	_	_	_	_	_	_	_	_	_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2
Waste	_	_	_	_	_		_	_	_		_	12.4	0.00	12.4	1.24	0.00	_	43.4
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9
Total	0.23	0.82	0.29	1.20	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	23.2	391	414	2.39	0.03	24.9	509

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	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.45	0.44	0.10	1.12	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	51.2	51.2	0.03	0.01	0.09	55.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00	0.00	0.00	0.00
Other 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	0.11	0.06	0.94	0.76	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	156	156	0.04	0.03	0.16	165
Total	0.55	0.49	1.04	1.88	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	207	207	0.07	0.04	0.25	220
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	0.45	0.43	0.11	1.32	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	50.4	50.4	0.03	0.01	< 0.005	54.9
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	0.10	0.05	0.98	0.80	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	157	157	0.04	0.03	< 0.005	166
Total	0.55	0.49	1.09	2.11	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	_	208	208	0.07	0.04	0.01	221
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.06	0.06	0.01	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	6.14	6.14	< 0.005	< 0.005	< 0.005	6.67
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	0.01	0.01	0.13	0.10	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	19.0	19.0	0.01	< 0.005	0.01	20.0
	0.07	0.06	0.14	0.28	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005		25.1	25.1	0.01		0.01	26.7

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

		its (Ib/da																
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	_	_	_	_	_	_		_		_	_	_	859	859	0.06	0.01	_	862
Parking Lot	_	_	_	-	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	128
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	_	_	_	_	_	_	_	_	_	_	_	_	986	986	0.07	0.01	_	991
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	859	859	0.06	0.01	_	862
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	128

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	_	_	_	_	_	_	_	_	_	_	_	_	986	986	0.07	0.01	_	991
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_		_	142	142	0.01	< 0.005	_	143
Parking Lot	_	_	_	_	_	_	_	_	_	_	_	_	21.2	21.2	< 0.005	< 0.005	_	21.3
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	_	_	_	_	_	_	_	_	_	_	_	_	163	163	0.01	< 0.005	_	164

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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915

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	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
Daily, Winter (Max)	_	_	-	_	_	_	_	_	_	-		_	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	0.08	0.04	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	-	913	913	0.08	< 0.005	_	915
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	0.76	0.64	< 0.005	0.06	_	0.06	0.06	_	0.06	_	913	913	0.08	< 0.005	_	915
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	151	151	0.01	< 0.005	_	152
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	0.02	0.01	0.14	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	151	151	0.01	< 0.005	_	152

4.3. Area Emissions by Source

4.3.2. Unmitigated

Source	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	СО2Т	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.18	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	1.14	1.05	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	27.2
Total	1.14	4.44	0.05	6.42	< 0.005	0.01	_	0.01	0.01	_	0.01	_	26.4	26.4	< 0.005	< 0.005	_	27.2
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	3.18	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Architect ural	_	0.21	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	3.39	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.58	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.04	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt	0.14	0.13	0.01	0.80	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.00	3.00	< 0.005	< 0.005	_	3.08
Total	0.14	0.75	0.01	0.80	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.00	3.00	< 0.005	< 0.005	_	3.08

4.4. Water Emissions by Land Use

4.4.2. 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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
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	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
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	_	_	_	_	_	_	_	_	_	_	_	65.5	293	359	6.73	0.16	_	575
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_		_	_	_	_	_	_	_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2
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	_	_	_	_	_	_	_	_	_	_	_	10.8	48.5	59.4	1.11	0.03	_	95.2

4.5. Waste Emissions by Land Use

4.5.2. 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	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
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	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated Warehou se-No Rail	_	_	_	_		_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
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	_	_	_	_	_	_	_	_	_	_	_	74.8	0.00	74.8	7.48	0.00	_	262
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_		_	_	12.4	0.00	12.4	1.24	0.00	_	43.4
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	_	_	_	_	_	_	_	_	_	_	_	12.4	0.00	12.4	1.24	0.00	_	43.4

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)	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	-	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	-		_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	151	151
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	-	-	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	24.9	24.9

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

				, , , , , , , , , , , , , , , , , , , 														
Equipme	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
nt																		
Туре																		

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

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

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

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	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

T/	otal	 	 	_	 _	 	 _	 	 	 	
- 10	Mai										

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

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

Land Use	TOG	ROG	NOx	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

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 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
Unrefrigerated Warehouse-No Rail	164	14.3	5.76	43,800	32.8	2.87	1.15	8,760
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	88.6	7.83	3.10	23,679	17.7	1.57	0.62	4,736

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	221,595	73,865	14,113

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	691,430	453	0.0330	0.0040	2,847,665
Parking Lot	103,028	453	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	453	0.0330	0.0040	0.00
User Defined Industrial	0.00	453	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	34,162,563	650,138
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	139	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
User Defined Industrial	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type Fuel Type Engine Tier Number per Day Hours Per Day Horsepower Load Factor	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
- qa.po , p o				110010 por 1001		

5.16.2. Process Boilers

Equipment Type F	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

Т	ree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
	iee Type	Nullibel	Lieutiuity Gaveu (Kvvii/yeai)	ivaturai Gas Gaveu (blu/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	17.8	annual days of extreme heat
Extreme Precipitation	5.80	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.48	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	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

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

Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	71.8
AQ-PM	86.2
AQ-DPM	82.7
Drinking Water	94.7
Lead Risk Housing	83.4
Pesticides	0.00
Toxic Releases	85.4
Traffic	76.9
Effect Indicators	
CleanUp Sites	89.7
Groundwater	99.3
Haz Waste Facilities/Generators	99.7

Impaired Water Bodies	58.7
Solid Waste	92.1
Sensitive Population	_
Asthma	48.3
Cardio-vascular	70.1
Low Birth Weights	8.15
Socioeconomic Factor Indicators	_
Education	72.5
Housing	52.1
Linguistic	72.5
Poverty	76.4
Unemployment	70.0

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	34.67214167
Employed	60.78532016
Median HI	30.61722058
Education	_
Bachelor's or higher	26.52380341
High school enrollment	7.006287694
Preschool enrollment	6.454510458
Transportation	_
Auto Access	71.35891184
Active commuting	75.24701655

Social	_
2-parent households	20.23610933
Voting	7.789041447
Neighborhood	_
Alcohol availability	71.26908764
Park access	4.439881945
Retail density	88.93879122
Supermarket access	13.56345438
Tree canopy	15.25728218
Housing	_
Homeownership	43.80854613
Housing habitability	49.98075196
Low-inc homeowner severe housing cost burden	95.4446298
Low-inc renter severe housing cost burden	26.31849095
Uncrowded housing	22.16091364
Health Outcomes	_
Insured adults	28.37161555
Arthritis	0.0
Asthma ER Admissions	53.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	1.0
Cognitively Disabled	33.5

Physically Disabled	39.7
Heart Attack ER Admissions	47.6
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	99.3
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	_
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	_
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	33.8
Elderly	74.7
English Speaking	46.4
Foreign-born	80.5
Outdoor Workers	73.3
Climate Change Adaptive Capacity	_
Impervious Surface Cover	62.1
Traffic Density	80.7
Traffic Access	47.4
Other Indices	
Hardship	68.8
Other Decision Support	_

2016 Voting	16.6
2010 104119	10.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	22.0
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.

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	Trips taken from ITE 11th Edition.
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

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

Operations: 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.

ATTACHMENT C CALEEMOD EXISTING OPERATIONAL EMISSIONS MODEL OUTPUTS

15076 - Nelson Ave (Existing) 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	15076 - Nelson Ave (Existing)
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	1.80
Precipitation (days)	22.4
Location	15010 Nelson Ave E, City of Industry, CA 91744, USA
County	Los Angeles-South Coast
City	Industry
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5012
EDFZ	7
Electric Utility	City of Industry
Gas Utility	Southern California Gas

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
Unrefrigerated Warehouse-No Rail	22.0	1000sqft	0.51	22,040	0.00	_	_	_
User Defined Industrial	22.0	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

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

Un/Mit.	TOG	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.43	0.84	1.58	3.27	0.02	0.03	0.30	0.33	0.03	0.06	0.09	20.9	1,848	1,869	2.21	0.21	27.4	2,013
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.26	0.68	1.64	2.16	0.01	0.03	0.30	0.32	0.03	0.06	0.09	20.9	1,828	1,849	2.21	0.21	22.6	1,989
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.31	0.74	1.25	2.29	0.01	0.02	0.22	0.24	0.02	0.05	0.07	20.9	1,426	1,447	2.19	0.16	24.0	1,574
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.06	0.14	0.23	0.42	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	3.47	236	240	0.36	0.03	3.98	261

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	0.25	0.18	1.46	2.22	0.01	0.02	0.30	0.32	0.02	0.06	0.08	_	1,537	1,537	0.07	0.18	4.91	1,598
Area	0.17	0.66	0.01	0.96	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.94	3.94	< 0.005	< 0.005	_	4.06
Energy	0.01	0.01	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	264	264	0.02	< 0.005	_	265
Water	_	_	<u> </u>	_	_	_	_	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
Waste	_	_	_	_	_	_	_	_	_	_	_	11.2	0.00	11.2	1.12	0.00	_	39.1
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Total	0.43	0.84	1.58	3.27	0.02	0.03	0.30	0.33	0.03	0.06	0.09	20.9	1,848	1,869	2.21	0.21	27.4	2,013
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.25	0.17	1.52	2.06	0.01	0.02	0.30	0.32	0.02	0.06	0.08	_	1,521	1,521	0.07	0.18	0.13	1,577
Area	_	0.50	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.01	0.01	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	264	264	0.02	< 0.005	_	265
Water	_	_	_	_	_	_	_	_	_	_		9.77	43.1	52.8	1.00	0.02	_	85.2
Waste	_	_	_	_	_	_	_	_	_	_	_	11.2	0.00	11.2	1.12	0.00	_	39.1
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Total	0.26	0.68	1.64	2.16	0.01	0.03	0.30	0.32	0.03	0.06	0.09	20.9	1,828	1,849	2.21	0.21	22.6	1,989
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	
Mobile	0.18	0.13	1.13	1.54	0.01	0.01	0.22	0.23	0.01	0.05	0.06	_	1,116	1,116	0.05	0.13	1.55	1,159
Area	0.12	0.61	0.01	0.66	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	2.70	2.70	< 0.005	< 0.005	_	2.78
Energy	0.01	0.01	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	264	264	0.02	< 0.005	_	265
Water	_	_	_	_	_	_	_	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
Waste	_	_	_	_	_	_	_	_	_	_	_	11.2	0.00	11.2	1.12	0.00	_	39.1
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Total	0.31	0.74	1.25	2.29	0.01	0.02	0.22	0.24	0.02	0.05	0.07	20.9	1,426	1,447	2.19	0.16	24.0	1,574
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.03	0.02	0.21	0.28	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	185	185	0.01	0.02	0.26	192
Area	0.02	0.11	< 0.005	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.45	0.45	< 0.005	< 0.005	_	0.46

8/31

Energy	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	43.7	43.7	< 0.005	< 0.005	_	43.9
Water	_	_	_	_	_	_	<u> </u>	_	<u> </u>	_	_	1.62	7.13	8.75	0.17	< 0.005	<u> </u>	14.1
Waste	_	_	_	_	_	_	_	_	_	_	_	1.85	0.00	1.85	0.18	0.00	_	6.47
Refrig.	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.72	3.72
Total	0.06	0.14	0.23	0.42	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	3.47	236	240	0.36	0.03	3.98	261

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

		(1.0, 0.0	,	,,		, ,	J	.c, c.c., .c		. ,	J							
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	0.16	0.14	0.09	1.58	< 0.005	< 0.005	0.11	0.12	< 0.005	0.02	0.02	_	320	320	0.01	0.01	1.33	324
User Defined Industrial	0.09	0.03	1.36	0.64	0.01	0.02	0.18	0.20	0.02	0.04	0.06	_	1,217	1,217	0.05	0.17	3.57	1,273
Total	0.25	0.18	1.46	2.22	0.01	0.02	0.30	0.32	0.02	0.06	0.08	_	1,537	1,537	0.07	0.18	4.91	1,598
Daily, Winter (Max)	_	_	_	_		_	_	_	_	_	_	_	_	_	_		_	_

Unrefrige rated Warehou se-No Rail	0.16	0.14	0.11	1.43	< 0.005	< 0.005	0.11	0.12	< 0.005	0.02	0.02	_	304	304	0.01	0.01	0.03	307
User Defined Industrial	0.09	0.03	1.42	0.63	0.01	0.02	0.18	0.20	0.02	0.04	0.06	_	1,217	1,217	0.05	0.17	0.09	1,270
Total	0.25	0.17	1.52	2.06	0.01	0.02	0.30	0.32	0.02	0.06	0.08	_	1,521	1,521	0.07	0.18	0.13	1,577
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	0.02	0.02	0.01	0.20	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	_	37.3	37.3	< 0.005	< 0.005	0.07	37.8
User Defined Industrial	0.01	< 0.005	0.19	0.08	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	_	147	147	0.01	0.02	0.19	154
Total	0.03	0.02	0.21	0.28	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	185	185	0.01	0.02	0.26	192

4.2. Energy

4.2.1. Electricity 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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	129

User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	129
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	129
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	128	128	0.01	< 0.005	_	129
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	_	21.2	21.2	< 0.005	< 0.005	_	21.3
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	_	21.2	21.2	< 0.005	< 0.005	_	21.3

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)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige Warehous Rail		0.01	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	136	136	0.01	< 0.005	_	137
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	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	136	136	0.01	< 0.005	_	137
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	-
Unrefrige rated Warehou se-No Rail	0.01	0.01	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	136	136	0.01	< 0.005	_	137
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	0.11	0.10	< 0.005	0.01	_	0.01	0.01	_	0.01	_	136	136	0.01	< 0.005	_	137
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_
Unrefrige rated Warehou se-No Rail	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	22.5	22.5	< 0.005	< 0.005	_	22.6
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	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	22.5	22.5	< 0.005	< 0.005	_	22.6

4.3. Area Emissions by Source

4.3.2. Unmitigated

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	_	0.47	_	_	_	_	-	-	-	_	-	_	_	_	_	-	-	_
Architect ural Coatings	_	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Landsca pe Equipme nt	0.17	0.16	0.01	0.96	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.94	3.94	< 0.005	< 0.005	_	4.06
Total	0.17	0.66	0.01	0.96	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.94	3.94	< 0.005	< 0.005	_	4.06
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.47	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Architect ural Coatings	_	0.03	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	-
Total	_	0.50	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consum er Products	_	0.09	_	_	_	_	_	_	_	_	_	_	_	_		_	_	_
Architect ural Coatings	_	0.01	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Landsca pe Equipme nt		0.02	< 0.005	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.45	0.45	< 0.005	< 0.005	_	0.46

To	otal	0.02	0.11	< 0.005	0.12	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.45	0.45	< 0.005	< 0.005	_	0.46

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Land	TOG	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T		PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	-	-	-	-	_	_	_	_	_	_	_	-	_	_	-	_
Unrefrige rated Warehou se-No Rail		-	_	_	_	_	-	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
User Defined Industrial	_	_	_	_	-	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	-	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
Daily, Winter (Max)	_	_	-	_	-	_	_	_	_	-	_	_	_	-	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	-	_	_	_	_	-	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	9.77	43.1	52.8	1.00	0.02	_	85.2
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	

Unrefrige rated	_		_	_	_		_	_	_	_	_	1.62	7.13	8.75	0.17	< 0.005	_	14.1
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	1.62	7.13	8.75	0.17	< 0.005	_	14.1

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

		(110) 610		.,,, .		_			J. J. J.									
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	_	_	_	_	_	_	_	_	_	_	_	11.2	0.00	11.2	1.12	0.00	_	39.1
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	<u> </u>	11.2	0.00	11.2	1.12	0.00	_	39.1
Daily, Winter (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_		_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_		_	_	11.2	0.00	11.2	1.12	0.00		39.1

User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	11.2	0.00	11.2	1.12	0.00	_	39.1
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail	_	_	_	_	_	_	_	_	_	_	_	1.85	0.00	1.85	0.18	0.00	_	6.47
User Defined Industrial	_	_	_	_	_	_	_	_	_	_	_	0.00	0.00	0.00	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	1.85	0.00	1.85	0.18	0.00	_	6.47

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Land Use	TOG	ROG	NOx	СО	SO2	PM10E			PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrige rated	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	22.5	22.5
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrige rated Warehou se-No Rail		_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.72	3.72
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	3.72	3.72

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)

		(1.07 0.0.		,, , .														
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	_	_	<u> </u>	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_
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)

E annie annie	TOO	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	DMO EE	PM2.5D	DMO ET	BCO2	NDOOG	ОООТ	CH4	N2O	<u></u>	000-
Equipme	IOG	ROG	NOX		502	PINITUE	PM10D	PM101	PMZ.5E	PM2.5D	PM2.51	BCO2	NBCO2	CO21	CH4	N2O	R	CO2e
nt																		
Туре																		
Daily,	_		_	_		_						_	_	_	_		_	
Summer																		
(Max)																		
(IVIAX)																		
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily,	_	_		_	_	_	_	_	_	_	_		_	_		_		_
Winter																		
(Max)																		
T																		
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_			_		_	_	_	_	_		_	_
Total	_	_	_	_	_	_	_	_	_		_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. 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	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10. 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			со	SO2	PM10E				PM2.5D		BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

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

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

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

Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	<u> </u>	<u> </u>	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

Species	TOG	ROG	NOx	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 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
Unrefrigerated Warehouse-No Rail	37.7	3.31	1.32	10,067	423	37.1	14.8	112,937
User Defined Industrial	13.2	1.17	0.46	3,533	403	35.6	14.1	107,642

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	33,060	11,020	_

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	103,155	453	0.0330	0.0040	424,846
User Defined Industrial	0.00	453	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	5,096,750	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	20.7	0.00
User Defined Industrial	0.00	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
Unrefrigerated Warehouse-No Rail	Cold storage	User Defined	150	7.50	7.50	7.50	25.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Por Day	Horsepower	Load Factor
Equipment type	ruer type	Engine nei	Nullibel pel Day	Hours Per Day	i ioisepowei	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/vr)
_qs.p				zanj mat mpat (mizta, aaj)	/ a a

5.17. User Defined

Equipment Type	Fuel Type
Equipment Type	, as type

_

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Venetation Lend Hea Time	Variation Call Time	Initial Asses	Final Assas
Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
3	-3		

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	17.8	annual days of extreme heat
Extreme Precipitation	5.80	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth

Wildfire	0.48	annual hectares burned

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

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

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

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

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

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

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3

Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	71.8
AQ-PM	86.2
AQ-DPM	82.7
Drinking Water	94.7
Lead Risk Housing	83.4
Pesticides	0.00
Toxic Releases	85.4
Traffic	76.9

Effect Indicators	_
CleanUp Sites	89.7
Groundwater	99.3
Haz Waste Facilities/Generators	99.7
Impaired Water Bodies	58.7
Solid Waste	92.1
Sensitive Population	_
Asthma	48.3
Cardio-vascular	70.1
Low Birth Weights	8.15
Socioeconomic Factor Indicators	_
Education	72.5
Housing	52.1
Linguistic	72.5
Poverty	76.4
Unemployment	70.0

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	34.67214167
Employed	60.78532016
Median HI	30.61722058
Education	_
Bachelor's or higher	26.52380341
High school enrollment	7.006287694

Developed a gradient and	0.454540450
Preschool enrollment	6.454510458
Transportation	_
Auto Access	71.35891184
Active commuting	75.24701655
Social	_
2-parent households	20.23610933
Voting	7.789041447
Neighborhood	_
Alcohol availability	71.26908764
Park access	4.439881945
Retail density	88.93879122
Supermarket access	13.56345438
Tree canopy	15.25728218
Housing	_
Homeownership	43.80854613
Housing habitability	49.98075196
Low-inc homeowner severe housing cost burden	95.4446298
Low-inc renter severe housing cost burden	26.31849095
Uncrowded housing	22.16091364
Health Outcomes	_
Insured adults	28.37161555
Arthritis	0.0
Asthma ER Admissions	53.5
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0

Life Expociancy at Birth 1.0 Cognitively Disabled 33.5 Physically Disabled 39.7 Heart Attack ER Admissions 47.6 Montal Health Not Good 0.0 Chronic Kirdney Disease 0.0 Obesity 0.0 Podestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors - Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures - Wildier Risk 0.0 St.R Inundation Area 0.0 Childron 33.8 Elderly 4.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity - Impervious Surface Cover 62.1	Chronic Obstructive Pulmonary Disease	0.0
Cognitively Disabled 33.5 Physically Disabled 39.7 Heart Attack ER Admissions 47.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Dessity 0.0 Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binga Drinking 0.0 Current Smoker 0.0 No Loisur Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 65.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity Impervious Surface Cover 62.1	Diagnosed Diabetes	0.0
Physically Disabled 39.7 Heart Attack ER Admissions 47.6 Montal Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 9.3 Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Dinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Vilidire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Eleierly 74.7 English Speaking 64.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity Impervious Surface Cover 62.1	Life Expectancy at Birth	1.0
Heart Attack ER Admissions 47.6 Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 9.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors - Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures - Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 3.8 Elcelry 7.47 English Speaking 4.4 Foreign-born 80.5 Outdoor Workers 7.3 Climate Change Adaptive Capacity - Impervious Surface Cover 62.1	Cognitively Disabled	33.5
Mental Health Not Good 0.0 Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 SLR Inudation Area 0.0 Children 3.8 Elederly 7.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 7.3 Climate Change Adaptive Capacity Impervious Surface Cover 62.1	Physically Disabled	39.7
Chronic Kidney Disease 0.0 Obesity 0.0 Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Cilmate Change Exposures Wildfire Risk 0.0 Str. Inundation Area 0.0 Children 3.8 Elderly 4.7 English Speaking 6.4 Foreign-born 80.5 Outdoor Workers 7.3 Climate Change Adaptive Capacity Impervious Surface Cover 6.1	Heart Attack ER Admissions	47.6
Obesity 0.0 Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures Wildfire Risk 0.0 Stal Inundation Area 0.0 Children 33.8 Elderly 7.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity Impervious Surface Cover 62.1	Mental Health Not Good	0.0
Pedestrian Injuries 99.3 Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Chronic Kidney Disease	0.0
Physical Health Not Good 0.0 Stroke 0.0 Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Obesity	0.0
Stroke 0.0 Health Risk Behaviors	Pedestrian Injuries	99.3
Health Risk Behaviors — Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Physical Health Not Good	0.0
Binge Drinking 0.0 Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Stroke	0.0
Current Smoker 0.0 No Leisure Time for Physical Activity 0.0 Climate Change Exposures — Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Health Risk Behaviors	_
No Leisure Time for Physical Activity Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0 Children SLEIderly English Speaking Foreign-born Outdoor Workers Climate Change Adaptive Capacity Innervious Surface Cover No.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Binge Drinking	0.0
Climate Change Exposures Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly Foreign-born 0.0 4.7 English Speaking Foreign-born 0.0 80.5 Climate Change Adaptive Capacity Inpervious Surface Cover	Current Smoker	0.0
Wildfire Risk 0.0 SLR Inundation Area 0.0 Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	No Leisure Time for Physical Activity	0.0
SLR Inundation Area Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born Outdoor Workers Climate Change Adaptive Capacity Impervious Surface Cover 0.0 33.8 44.7 46.4 46	Climate Change Exposures	_
Children 33.8 Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Wildfire Risk	0.0
Elderly 74.7 English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	SLR Inundation Area	0.0
English Speaking 46.4 Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — 62.1	Children	33.8
Foreign-born 80.5 Outdoor Workers 73.3 Climate Change Adaptive Capacity — Impervious Surface Cover 62.1	Elderly	74.7
Outdoor Workers 73.3 Climate Change Adaptive Capacity — 62.1	English Speaking	46.4
Climate Change Adaptive Capacity Impervious Surface Cover 62.1	Foreign-born	80.5
Impervious Surface Cover 62.1	Outdoor Workers	73.3
	Climate Change Adaptive Capacity	_
Traffic Density 80.7	Impervious Surface Cover	62.1
	Traffic Density	80.7

Traffic Access	47.4
Other Indices	
Hardship	68.8
Other Decision Support	_
2016 Voting	16.6

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	92.0
Healthy Places Index Score for Project Location (b)	22.0
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
Land Use	x
Operations: Vehicle Data	Trips taken from ITE 11th Edition

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.