AIR QUALITY and GHG IMPACT ANALYSES ROUTE 66 TRUCK PARKING & CARGO TERMINAL PROJECT COUNTY OF SAN BERNARDINO, CALIFORNIA

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Date:

November 5, 2023

Project No.: P23-038AQ

PROJECT DESCRIPTION

The project proposes to develop a truck parking and truck terminal project that would enable truckers to stage loads and redistribute goods. Ultimately the site would consist of a 28,680-sf truck terminal structure and 66,000 sf of landscaping. Access to the site is provided through two new driveways along Cajon Boulevard. The proposed use is consistent with surrounding uses. The project would be developed within a net 9.2-acre site (after roadway dedication) located along Cajon Boulevard in Unincorporated San Bernardino County.

ATMOSPHERIC SETTING

REGIONAL CLIMATE

The climate of the San Bernardino Valley, as with all of Southern California, is governed largely by the strength and location of the semi-permanent high-pressure center over the Pacific Ocean and the moderating effects of the nearby vast oceanic heat reservoir. Local climatic conditions are characterized by very warm summers, mild winters, infrequent rainfall, moderate daytime onshore breezes, and comfortable humidity levels. Unfortunately, the same climatic conditions that create such a desirable living climate combine to severely restrict the ability of the local atmosphere to disperse the large volumes of air pollution generated by the population and industry attracted in part by the climate.

The project will be situated in an area where the pollutants generated in coastal portions of the Los Angeles basin undergo photochemical reactions and then move inland across the project site during the daily sea breeze cycle. The resulting smog at times gives San Bernardino County some of the worst air quality in all of California. Fortunately, significant air quality improvement in the last decade suggests that healthful air quality may someday be attained despite the limited regional meteorological dispersion potential.

Winds across the project area are an important meteorological parameter because they control both the initial rate of dilution of locally generated air pollutant emissions as well as controlling their regional trajectory. Winds across the project site display a very unidirectional onshore flow from the southwest-west that is strongest in summer with a weaker offshore return flow from the northeast that is strongest on winter nights when the land is colder than the ocean. The onshore winds during the day average 6-8 mph while the offshore flow is often calm or drifts slowly westward at 1-3 mph.

During the daytime, any locally generated air emissions are thus rapidly transported eastward toward Banning Pass without generating any localized air quality impacts. The nocturnal drainage winds which move slowly across the area have some potential for localized stagnation, but fortunately, these winds have their origin in the adjacent mountains where background pollution levels are low such that any localized contributions do not create any unhealthful impacts.

In conjunction with the two characteristic wind regimes that affect the rate and orientation of horizontal pollutant transport, there are two similarly distinct types of temperature inversions that

control the vertical depth through which pollutants are mixed. The summer on-shore flow is capped by a massive dome of warm, sinking air which caps a shallow layer of cooler ocean air. These marine/subsidence inversions act like a giant lid over the basin. They allow for local mixing of emissions, but they confine the entire polluted air mass within the basin until it escapes into the desert or along the thermal chimneys formed along heated mountain slopes.

In winter, when the air near the ground cools while the air aloft remains warm, radiation inversions are formed that trap low-level emissions such as automobile exhaust near their source. As background levels of primary vehicular exhaust rise during the seaward return flow, the combination of rising non-local baseline levels plus emissions trapped locally by these radiation inversions creates micro-scale air pollution "hot spots" near freeways, shopping centers and other traffic concentrations in coastal areas of the Los Angeles Basin. Because the nocturnal airflow down the adjacent slopes to the north has its origin in very lightly developed areas of the San Bernardino Mountains, background pollution levels at night in winter are very low in the project vicinity. Localized air pollution contributions are insufficient to create a "hot spot" potential when superimposed upon the clean nocturnal baseline. The combination of winds and inversions are thus critical determinants in leading to the degraded air quality in summer, and the generally good air quality in winter in the project area.

AIR QUALITY SETTING

AMBIENT AIR QUALITY STANDARDS (AAQS)

In order to gauge the significance of the air quality impacts of the proposed project, those impacts, together with existing background air quality levels, must be compared to the applicable ambient air quality standards. These standards are the levels of air quality considered safe, with an adequate margin of safety, to protect the public health and welfare. They are designed to protect those people most susceptible to further respiratory distress such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and persons engaged in strenuous work or exercise, called "sensitive receptors." Healthy adults can tolerate occasional exposure to air pollutant concentrations considerably above these minimum standards before adverse effects are observed. Recent research has shown, however, that chronic exposure to ozone (the primary ingredient in photochemical smog) may lead to adverse respiratory health even at concentrations close to the ambient standard.

National AAQS were established in 1971 for six pollution species with states retaining the option to add other pollutants, require more stringent compliance, or to include different exposure periods. The initial attainment deadline of 1977 was extended several times in air quality problem areas like Southern California. In 2003, the Environmental Protection Agency (EPA) adopted a rule, which extended and established a new attainment deadline for ozone for the year 2021. Because the State of California had established AAQS several years before the federal action and because of unique air quality problems introduced by the restrictive dispersion meteorology, there is considerable difference between state and national clean air standards. Those standards currently in effect in California are shown in Table 1. Sources and health effects of various pollutants are shown in Table 2.

The Federal Clean Air Act Amendments (CAAA) of 1990 required that the U.S. Environmental Protection Agency (EPA) review all national AAQS in light of currently known health effects. EPA was charged with modifying existing standards or promulgating new ones where appropriate. EPA subsequently developed standards for chronic ozone exposure (8+ hours per day) and for very small diameter particulate matter (called "PM-2.5"). New national AAQS were adopted in 1997 for these pollutants.

Planning and enforcement of the federal standards for PM-2.5 and for ozone (8-hour) were challenged by trucking and manufacturing organizations. In a unanimous decision, the U.S. Supreme Court ruled that EPA did not require specific congressional authorization to adopt national clean air standards. The Court also ruled that health-based standards did not require preparation of a cost-benefit analysis. The Court did find, however, that there was some inconsistency between existing and "new" standards in their required attainment schedules. Such attainment-planning schedule inconsistencies centered mainly on the 8-hour ozone standard. EPA subsequently agreed to downgrade the attainment designation for a large number of communities to "non-attainment" for the 8-hour ozone standard.

Table 1

Pollutant	Ambient Air Quality Standards								
Pollutant							2		
Nitrogen	Pollutant								
Respirable		1 Hour			_	Same as	Ultraviolet		
Particulate Matter (PM10) Annual Arithmetic Mean 20 μg/m³ Beta Attenuation — Same as Primary Standard Analysis	Ozone (O ₃)°	8 Hour	0.070 ppm (137 μg/m³)		0.070 ppm (137 μg/m³)				
Annual Companies Annual Anthmetic Mean 20 μg/m² Beta Attenuation — Primary Standard Anthmetic Mean 22 μg/m² Gravimetric or Beta Attenuation 12.0 μg/m² 15 μg/m² Inertial Separation and Gravimetric or Beta Attenuation 12.0 μg/m² 15 μg/m² Inertial Separation and Gravimetric Analysis Inertial Separation Inertial Separatio		24 Hour	50 μg/m ³	Gravimetric or	150 μg/m ³	Same as	Inertial Separation		
Particulate Matter			20 μg/m ³	Beta Attenuation	_	Primary Standard			
Matter		24 Hour	-	_	35 μg/m³		Inertial Separation		
Non-Dispersive Infrared Photometry (CO) 8 Hour (Lake Tahoe) 9.0 ppm (10 mg/m³) 1 Hour (Lake Tahoe) 0.18 ppm (339 μg/m³) Gas Phase Chemiluminescence 0.053 ppm (100 μg/m³) Same as Primary Standard Photometry (NDIR) 1 Hour 0.25 ppm (855 μg/m³) 1 Hour 0.25 ppm (855 μg/m³) 1 Hour 0.04 ppm (105 μg/m³) 1 Hour 0.05 ppm (for certain areas)¹¹¹ 1 Hour 0.05 ppm (for certain areas)¹¹ 1 Hour 1.5 μg/m³ 1.			12 μg/m³		12.0 μg/m³	15 μg/m³			
Monoxide (CO) 8 Hour 9.0 ppm (10 mg/m³) Infrared Photometry (NDIR) 9 ppm (10 mg/m³) — Infrared Photometry (NDIR) 1 Hour 0.18 ppm (339 μg/m³) Gas Phase Chemiluminescence 100 ppb (188 μg/m³) — Gas Phase Chemiluminescence 100 ppb (189 μg/m³) — Gas Phase Chemiluminescence 100 ppb (189 μg/m³) — Gas Phase 100 ppb (189 μ	Carbon	1 Hour	20 ppm (23 mg/m³)	Non Discouries	35 ppm (40 mg/m ³)	_	Nam Diamanian		
Nitrogen Dioxide (NO ₂) ¹⁰	Monoxide	8 Hour	9.0 ppm (10 mg/m ³)	Infrared Photometry	9 ppm (10 mg/m³)	_	Infrared Photometry		
Dioxide (NO₂) No. Annual Arithmetic Mean 0.030 ppm (67 μg/m³) Chemiluminescence 0.053 ppm (100 μg/m³) Same as Primary Standard Same as Prim	(00)		6 ppm (7 mg/m ³)	(1311)	-	_	(NOIN)		
Annual Arithmetic Mean 0.030 ppm (57 μg/m³) Thour 0.25 ppm (655 μg/m³) Thour 0.04 ppm (105 μg/m³) Thour 0.04 ppm (105 μg/m³) Thour Th	_	1 Hour	0.18 ppm (339 μg/m³)	Gas Phase	100 ppb (188 μg/m³)	_	Gas Phase		
Sulfur Dioxide (SO ₂) ¹¹ 24 Hour 0.04 ppm (105 µg/m³) Annual Arithmetic Mean			0.030 ppm (57 μg/m³)	Chemiluminescence	0.053 ppm (100 µg/m³)		Chemiluminescence		
Sulfur Dioxide (SO ₂) ¹¹ 24 Hour 0.04 ppm (105 µg/m³) Annual Arithmetic Mean		1 Hour	0.25 ppm (655 μg/m³)		75 ppb (196 μg/m³)	_			
24 Hour 0.04 ppm (105 μg/m³) Fluorescence 0.14 ppm (for certain areas)¹¹¹ — (Pararosaniline Method)		3 Hour	_	Ultraviolet	_		Flourescence; Spectrophotometry (Pararosaniline		
Arithmetic Mean Arithmetic Mean Color certain areas 11 Color certain areas 11 Color certain areas 11 Color certain areas 12 Color certain areas 12 Color certain areas 13 Color certain areas 14 Color certain areas 15 μg/m³ Color certain areas 15 μg/m³ Color certain areas 15 μg/m³ Color certain areas 12 Color certain areas 12 Color certain areas 13 Color certain areas 14 Color certain areas 15 μg/m³ Color certain areas 15 μg/m³ Same as Primary Standard Absorption Absorption No No Color certain areas 15 μg/m³ Color certain areas 12 Color certain areas 13 Color certain areas 14 Color certain areas 15 μg/m³ Color certain areas 15	(SO ₂) ¹¹	24 Hour	0.04 ppm (105 µg/m³)	Fluorescence		_			
Lead 12.13 Calendar Quarter — Atomic Absorption 1.5 μg/m³ (for certain areas)¹² Same as Primary Standard High Volume Sampler and Atom Absorption Visibility Reducing Particles¹⁴ 8 Hour See footnote 14 Beta Attenuation and Transmittance through Filter Tape No Sulfates 24 Hour 25 μg/m³ Ion Chromatography Hydrogen Sulfide 1 Hour 0.03 ppm (42 μg/m³) Ultraviolet Fluorescence Standards			_		***	_	meanod)		
Lead 12,13 Calendar Quarter — Atomic Absorption I.S. μg/m² (for certain areas)¹² (for certain areas)¹² Same as Primary Standard Sampler and Atom Absorption Visibility Reducing Particles¹⁴ 8 Hour See footnote 14 Transmittance through Filter Tape Sulfates 24 Hour 25 μg/m³ Ion Chromatography Hydrogen Sulfide 1 Hour 0.03 ppm (42 μg/m³) Ultraviolet Fluorescence Misual Standards		30 Day Average	1.5 μg/m ³		_	_			
Rolling 3-Month Average —	Lead ^{12,13}	Calendar Quarter	_	Atomic Absorption		Same as	Sampler and Atomic		
Reducing Particles ¹⁴ 8 Hour See footnote 14 Transmittance through Filter Tape No Sulfates 24 Hour 25 μg/m³ Ion Chromatography Hydrogen Sulfide 1 Hour 0.03 ppm (42 μg/m³) Ultraviolet Fluorescence Migrat Standards		•	_		0.15 μg/m ³	Primary Standard	7.0007.0011		
Sulfates 24 Hour 25 μg/m³ Ion Chromatography Hydrogen Sulfide 1 Hour 0.03 ppm (42 μg/m³) Ultraviolet Fluorescence Standards	Reducing	8 Hour	See footnote 14	Transmittance	No				
Sulfide	Sulfates	24 Hour	25 μg/m³	Ion Chromatography	National				
Vinyl	1	1 Hour	0.03 ppm (42 μg/m³)						
Chloride ¹² 24 Hour 0.01 ppm (26 μg/m³) Chromatography Gas Chromatography	Vinyl Chloride ¹²	24 Hour	0.01 ppm (26 μg/m ³)	Gas Chromatography					

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Table 1 (continued)

- California standards for ozone, carbon monoxide (except 8-hour Lake Tahoe), sulfur dioxide (1 and 24 hour), nitrogen dioxide, and
 particulate matter (PM10, PM2.5, and visibility reducing particles), are values that are not to be exceeded. All others are not to be
 equaled or exceeded. California ambient air quality standards are listed in the Table of Standards in Section 70200 of Title 17 of the
 California Code of Regulations.
- 2. National standards (other than ozone, particulate matter, and those based on annual arithmetic mean) are not to be exceeded more than once a year. The ozone standard is attained when the fourth highest 8-hour concentration measured at each site in a year, averaged over three years, is equal to or less than the standard. For PM10, the 24 hour standard is attained when the expected number of days per calendar year with a 24-hour average concentration above 150 μg/m³ is equal to or less than one. For PM2.5, the 24 hour standard is attained when 98 percent of the daily concentrations, averaged over three years, are equal to or less than the standard. Contact the U.S. EPA for further clarification and current national policies.
- 3. Concentration expressed first in units in which it was promulgated. Equivalent units given in parentheses are based upon a reference temperature of 25°C and a reference pressure of 760 torr. Most measurements of air quality are to be corrected to a reference temperature of 25°C and a reference pressure of 760 torr; ppm in this table refers to ppm by volume, or micromoles of pollutant per mole of gas.
- 4. Any equivalent measurement method which can be shown to the satisfaction of the ARB to give equivalent results at or near the level of the air quality standard may be used.
- 5. National Primary Standards: The levels of air quality necessary, with an adequate margin of safety to protect the public health.
- National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.
- Reference method as described by the U.S. EPA. An "equivalent method" of measurement may be used but must have a "consistent relationship to the reference method" and must be approved by the U.S. EPA.
- 8. On October 1, 2015, the national 8-hour ozone primary and secondary standards were lowered from 0.075 to 0.070 ppm.
- 9. On December 14, 2012, the national annual PM2.5 primary standard was lowered from 15 μg/m³ to 12.0 μg/m³. The existing national 24-hour PM2.5 standards (primary and secondary) were retained at 35 μg/m³, as was the annual secondary standard of 15 μg/m³. The existing 24-hour PM10 standards (primary and secondary) of 150 μg/m³ also were retained. The form of the annual primary and secondary standards is the annual mean, averaged over 3 years.
- 10. To attain the 1-hour national standard, the 3-year average of the annual 98th percentile of the 1-hour daily maximum concentrations at each site must not exceed 100 ppb. Note that the national 1-hour standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the national 1-hour standard to the California standards the units can be converted from ppb to ppm. In this case, the national standard of 100 ppb is identical to 0.100 ppm.
- 11. On June 2, 2010, a new 1-hour SO₂ standard was established and the existing 24-hour and annual primary standards were revoked. To attain the 1-hour national standard, the 3-year average of the annual 99th percentile of the 1-hour daily maximum concentrations at each site must not exceed 75 ppb. The 1971 SO₂ national standards (24-hour and annual) remain in effect until one year after an area is designated for the 2010 standard, except that in areas designated nonattainment for the 1971 standards, the 1971 standards remain in effect until implementation plans to attain or maintain the 2010 standards are approved.
 - Note that the 1-hour national standard is in units of parts per billion (ppb). California standards are in units of parts per million (ppm). To directly compare the 1-hour national standard to the California standard the units can be converted to ppm. In this case, the national standard of 75 ppb is identical to 0.075 ppm.
- 12. The ARB has identified lead and vinyl chloride as 'toxic air contaminants' with no threshold level of exposure for adverse health effects determined. These actions allow for the implementation of control measures at levels below the ambient concentrations specified for these pollutants.
- 13. The national standard for lead was revised on October 15, 2008 to a rolling 3-month average. The 1978 lead standard (1.5 μg/m³ as a quarterly average) remains in effect until one year after an area is designated for the 2008 standard, except that in areas designated nonattainment for the 1978 standard, the 1978 standard remains in effect until implementation plans to attain or maintain the 2008 standard are approved.
- 14. In 1989, the ARB converted both the general statewide 10-mile visibility standard and the Lake Tahoe 30-mile visibility standard to instrumental equivalents, which are "extinction of 0.23 per kilometer" and "extinction of 0.07 per kilometer" for the statewide and Lake Tahoe Air Basin standards, respectively.

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Table 2 Health Effects of Major Criteria Pollutants

Pollutants	Sources	Primary Effects
Carbon Monoxide (CO)	 Incomplete combustion of fuels and other carbon-containing substances, such as motor exhaust. Natural events, such as decomposition of organic matter. 	 Reduced tolerance for exercise. Impairment of mental function. Impairment of fetal development. Death at high levels of exposure. Aggravation of some heart diseases (angina).
Nitrogen Dioxide (NO ₂)	 Motor vehicle exhaust. High temperature stationary combustion. Atmospheric reactions. 	 Aggravation of respiratory illness. Reduced visibility. Reduced plant growth. Formation of acid rain.
Ozone (O ₃)	Atmospheric reaction of organic gases with nitrogen oxides in sunlight.	 Aggravation of respiratory and cardiovascular diseases. Irritation of eyes. Impairment of cardiopulmonary function. Plant leaf injury.
Lead (Pb)	Contaminated soil.	 Impairment of blood function and nerve construction. Behavioral and hearing problems in children.
Respirable Particulate Matter (PM-10)	 Stationary combustion of solid fuels. Construction activities. Industrial processes. Atmospheric chemical reactions. 	 Reduced lung function. Aggravation of the effects of gaseous pollutants. Aggravation of respiratory and cardio respiratory diseases. Increased cough and chest discomfort. Soiling.
Fine Particulate Matter (PM-2.5)	 Fuel combustion in motor vehicles, equipment, and industrial sources. Residential and agricultural burning. Industrial processes. Also, formed from photochemical reactions of other pollutants, including NOx, sulfur oxides, and organics. 	 Reduced visibility. Increases respiratory disease. Lung damage. Cancer and premature death. Reduces visibility and results in surface soiling.
Sulfur Dioxide (SO ₂)	 Combustion of sulfur-containing fossil fuels. Smelting of sulfur-bearing metal ores. Industrial processes. 	 Aggravation of respiratory diseases (asthma, emphysema). Reduced lung function. Irritation of eyes. Reduced visibility. Plant injury. Deterioration of metals, textiles, leather, finishes, coatings, etc.

Source: California Air Resources Board, 2002.

Evaluation of the most current data on the health effects of inhalation of fine particulate matter prompted the California Air Resources Board (ARB) to recommend adoption of the statewide PM-2.5 standard that is more stringent than the federal standard. This standard was adopted in 2002. The State PM-2.5 standard is more of a goal in that it does not have specific attainment planning requirements like a federal clean air standard, but only requires continued progress towards attainment.

Similarly, the ARB extensively evaluated health effects of ozone exposure. A new state standard for an 8-hour ozone exposure was adopted in 2005, which aligned with the exposure period for the federal 8-hour standard. The California 8-hour ozone standard of 0.07 ppm is more stringent than the federal 8-hour standard of 0.075 ppm. The state standard, however, does not have a specific attainment deadline. California air quality jurisdictions are required to make steady progress towards attaining state standards, but there are no hard deadlines or any consequences of non-attainment. During the same re-evaluation process, the ARB adopted an annual state standard for nitrogen dioxide (NO₂) that is more stringent than the corresponding federal standard, and strengthened the state one-hour NO₂ standard.

As part of EPA's 2002 consent decree on clean air standards, a further review of airborne particulate matter (PM) and human health was initiated. A substantial modification of federal clean air standards for PM was promulgated in 2006. Standards for PM-2.5 were strengthened, a new class of PM in the 2.5 to 10 micron size was created, some PM-10 standards were revoked, and a distinction between rural and urban air quality was adopted. In December, 2012, the federal annual standard for PM-2.5 was reduced from 15 μ g/m³ to 12 μ g/m³ which matches the California AAQS. The severity of the basin's non-attainment status for PM-2.5 may be increased by this action and thus require accelerated planning for future PM-2.5 attainment.

In response to continuing evidence that ozone exposure at levels just meeting federal clean air standards is demonstrably unhealthful, EPA had proposed a further strengthening of the 8-hour standard. A new 8-hour ozone standard was adopted in 2015 after extensive analysis and public input. The adopted national 8-hour ozone standard is 0.07 ppm which matches the current California standard. It will require three years of ambient data collection, then 2 years of non-attainment findings and planning protocol adoption, then several years of plan development and approval. Final air quality plans for the new standard are likely to be adopted around 2022. Ultimate attainment of the new standard in ozone problem areas such as Southern California might be after 2025.

In 2010 a new federal one-hour primary standard for nitrogen dioxide (NO₂) was adopted. This standard is more stringent than the existing state standard. Based upon air quality monitoring data in the South Coast Air Basin, the California Air Resources Board has requested the EPA to designate the basin as being in attainment for this standard. The federal standard for sulfur dioxide (SO₂) was also recently revised. However, with minimal combustion of coal and mandatory use of low sulfur fuels in California, SO₂ is typically not a problem pollutant.

BASELINE AIR QUALITY

Existing and probable future levels of air quality in the project area can be best inferred from ambient air quality measurements conducted by the South Coast Air Quality Management District (SCAQMD) at its Central San Bernardino monitoring station. This station measures both regional pollution levels such as dust (particulates) and smog, as well as levels of primary vehicular pollutants such as carbon monoxide. Table 3 summarizes the last four years of the published data from the Central San Bernardino monitoring station.

Ozone and particulates are seen to be the two most significant air quality concerns. Ozone is the primary ingredient in photochemical smog. Slightly more than 17 percent of all days exceed the California one-hour standard. The 8-hour state ozone standard has been exceeded an average of 27 percent of all days in the past four years. The federal 8-hour standard is exceeded 22 percent of all days. While ozone levels are still high, they are much lower than 10 to 20 years ago. Attainment of all clean air standards in the project vicinity is not likely to occur soon, but the severity and frequency of violations is expected to continue to slowly decline during the current decade.

In addition to gaseous air pollution concerns, San Bernardino experiences frequent violations of standards for 10-micron diameter respirable particulate matter (PM-10). High dust levels occur during Santa Ana wind conditions, as well as from the trapped accumulation of soot, roadway dust and byproducts of atmospheric chemical reactions during warm season days with poor visibility. Table 3 shows that almost 20 percent of all days in the last four years experienced a violation of the State PM-10 standard. However, the three-times less stringent federal standard has only been exceeded once in the same period.

A substantial fraction of PM-10 is comprised of ultra-small diameter particulates capable of being inhaled into deep lung tissue (PM-2.5). Peak annual PM-2.5 levels are sometimes almost as high as PM-10, which includes PM-2.5 as a sub-set. However, there has only been three violations of the 24-hour standard of 35 μ g/m³ in all monitoring days for the last four years.

More localized pollutants such as carbon monoxide, nitrogen oxides, etc. are very low near the project site because background levels, never approach allowable levels. There is substantial excess dispersive capacity to accommodate localized vehicular air pollutants such as NOx or CO without any threat of violating applicable AAQS.

Table 3
Air Quality Monitoring Summary (2019-2022)
(Estimated Number of Days Standards Were Exceeded)

Pollutant/Standard	2019	2020	2021	2022
Ozone				
1-Hour > 0.09 ppm (S)	41	89	66	60
8-Hour > 0.07 ppm (S)	67	128	101	96
8- Hour > 0.075 ppm (F)	73	110	74	70
Max. 1-Hour Conc. (ppm)	0.127	0.162	0.142	0.128
Max. 8-Hour Conc. (ppm)	0.114	0.128	0.112	0.105
Carbon Monoxide				
8- Hour > 9. ppm (S,F)	0	0	0	0
Max 8-hour Conc. (ppm)	1.1	1.4	1.6	1.7
Nitrogen Dioxide				
1-Hour > 0.18 ppm (S)	0	0	0	0
Max. 1-Hour Conc. (ppm)	0.059	0.054	0.056	0.053
Respirable Particulates (PM-10)				
24 -Hour > $50 \mu g/m^3 (S)$	36/269	81/320	79/364	65/360
24-Hour > 150 μ g/m ³ (F)	0/269	0/320	0/364	1/360
Max. 24-Hr. Conc. (μg/m ³)	112.	80.	111.	177.
Fine Particulates (PM-2.5)				
24-Hour > 35 μ g/m ³ (F)	0/97	0/115	1/120	2/118
Max. 24-Hr. Conc. (μg/m ³)	34.8	25.7	57.9	40.1

S=State Standard F=Federal Standard

Source: Central San Bernardino SCAQMD Air Monitoring Summary (5203)

data: www.arb.ca.gov/adam/

AIR QUALITY PLANNING

The Federal Clean Air Act (1977 Amendments) required that designated agencies in any area of the nation not meeting national clean air standards must prepare a plan demonstrating the steps that would bring the area into compliance with all national standards. The SCAB could not meet the deadlines for ozone, nitrogen dioxide, carbon monoxide, or PM-10. In the SCAB, the agencies designated by the governor to develop regional air quality plans are the SCAQMD and the Southern California Association of Governments (SCAG). The two agencies first adopted an Air Quality Management Plan (AQMP) in 1979 and revised it several times as earlier attainment forecasts were shown to be overly optimistic.

The 1990 Federal Clean Air Act Amendment (CAAA) required that all states with air-sheds with "serious" or worse ozone problems submit a revision to the State Implementation Plan (SIP). Substantial reductions in emissions of ROG, NOx and CO are forecast to continue throughout the next several decades. Unless new particulate control programs are implemented, PM-10 and PM-2.5 are forecast to slightly increase.

The Air Quality Management District (AQMD) adopted an updated clean air "blueprint" in August 2003. The 2003 Air Quality Management Plan (AQMP) was approved by the EPA in 2004. The AQMP outlined the air pollution measures needed to meet federal health-based standards for ozone by 2010 and for particulates (PM-10) by 2006. The 2003 AQMP was based upon the federal one-hour ozone standard which was revoked late in 2005 and replaced by an 8-hour federal standard. Because of the revocation of the hourly standard, a new air quality planning cycle was initiated.

With re-designation of the air basin as non-attainment for the 8-hour ozone standard, a new attainment plan was developed. This plan shifted most of the one-hour ozone standard attainment strategies to the 8-hour standard. As previously noted, the attainment date was to "slip" from 2010 to 2021. The updated attainment plan also includes strategies for ultimately meeting the federal PM-2.5 standard.

Because projected attainment by 2021 required control technologies that did not exist yet, the SCAQMD requested a voluntary "bump-up" from a "severe non-attainment" area to an "extreme non-attainment" designation for ozone. The extreme designation was to allow a longer time period for these technologies to develop. If attainment cannot be demonstrated within the specified deadline without relying on "black-box" measures, EPA would have been required to impose sanctions on the region had the bump-up request not been approved. In April 2010, the EPA approved the change in the non-attainment designation from "severe-17" to "extreme." This reclassification set a later attainment deadline (2024), but also required the air basin to adopt even more stringent emissions controls.

In other air quality attainment plan reviews, EPA had disapproved part of the SCAB PM-2.5 attainment plan included in the AQMP. EPA stated that the current attainment plan relied on PM-2.5 control regulations that had not yet been approved or implemented. It was expected that several rules that were pending approval would remove the identified deficiencies. If these issues were not resolved within the next several years, federal funding sanctions for transportation projects could

result. The 2012 AQMP included in the current California State Implementation Plan (SIP) was expected to remedy identified PM-2.5 planning deficiencies.

The federal Clean Air Act requires that non-attainment air basins have EPA approved attainment plans in place. This requirement includes the federal one-hour ozone standard even though that standard was revoked almost ten years ago. There was no approved attainment plan for the one-hour federal standard at the time of revocation. Through a legal quirk, the SCAQMD is now required to develop an AQMP for the long since revoked one-hour federal ozone standard. Because the current SIP for the basin contains several control measures for the 8-hour ozone standard that are equally effective for one-hour levels, the 2012 AQMP was believed to satisfy hourly attainment planning requirements.

AQMPs are required to be updated at regular intervals. The 2012 AQMP was adopted in early 2013. An updated 2016 AQMP was adopted by the SCAQMD Board in March 2017. The 2016 AQMD demonstrated the emissions reductions shown in Table 4 compared to the 2012 AQMP.

Table 4
Comparison of Emissions by Major Source Category From 2012 AQMP

Pollutant	Stationary Sources	Mobile Sources
VOC	-12%	-3%
NOx	-13%	-1%
SOx	-34%	-23%
PM2.5	-9%	-7%

^{*}Source 2016 AQMP

SCAQMD has initiated the development of the 2022 AQMP to address the attainment of the 2015 8-hour ozone standard (70 ppb) for South Coast Air Basin and Coachella Valley which will focus on attaining the 70 ppb 8-hour ozone National Ambient Air Quality Standard (NAAQS) by 2037. On-road vehicles and off-road mobile sources represent the largest categories of NOx emissions. Accomplishment of attainment goals requires an approximate 70% reduction in NOx emissions. Large scale transition to zero emission technologies is a key strategy. To this end, Governor Executive Order N-79-20 requires 100 percent EV sales by 2035 for automobiles and short haul drayage trucks. A full transition to EV buses and heavy-duty long-haul trucks is required by 2045.

The proposed project does not directly relate to the AQMP in that there are no specific air quality programs or regulations governing industrial development projects. Conformity with adopted plans, forecasts and programs relative to population, housing, employment and land use is the primary yardstick by which impact significance of planned growth is determined. The SCAQMD, however, while acknowledging that the AQMP is a growth-accommodating document, does not favor designating regional impacts as less-than-significant just because the proposed development is consistent with regional growth projections. Air quality impact significance for the proposed project has therefore been analyzed on a project-specific basis.

AIR QUALITY IMPACT

STANDARDS OF SIGNIFICANCE

Air quality impacts are considered "significant" if they cause clean air standards to be violated where they are currently met, or if they "substantially" contribute to an existing violation of standards. Any substantial emissions of air contaminants for which there is no safe exposure, or nuisance emissions such as dust or odors, would also be considered a significant impact.

Appendix G of the California CEQA Guidelines offers the following four tests of air quality impact significance. A project would have a potentially significant impact if it:

- a) Conflicts with or obstructs implementation of the applicable air quality plan.
- b) Results in a cumulatively considerable net increase of any criteria pollutants for which the project region is non-attainment under an applicable federal or state ambient air quality standard.
- c) Exposes sensitive receptors to substantial pollutant concentrations.
- d) Creates objectionable odors affecting a substantial number of people.

Primary Pollutants

Air quality impacts generally occur on two scales of motion. Near an individual source of emissions or a collection of sources such as a crowded intersection or parking lot, levels of those pollutants that are emitted in their already unhealthful form will be highest. Carbon monoxide (CO) is an example of such a pollutant. Primary pollutant impacts can generally be evaluated directly in comparison to appropriate clean air standards. Violations of these standards where they are currently met, or a measurable worsening of an existing or future violation, would be considered a significant impact. Many particulates, especially fugitive dust emissions, are also primary pollutants. Because of the non-attainment status of the South Coast Air Basin (SCAB) for PM-10, an aggressive dust control program is required to control fugitive dust during project construction.

Secondary Pollutants

Many pollutants, however, require time to transform from a more benign form to a more unhealthful contaminant. Their impact occurs regionally far from the source. Their incremental regional impact is minute on an individual basis and cannot be quantified except through complex photochemical computer models. Analysis of significance of such emissions is based upon a specified amount of emissions (pounds, tons, etc.) even though there is no way to translate those emissions directly into a corresponding ambient air quality impact.

Because of the chemical complexity of primary versus secondary pollutants, the SCAQMD has designated significant emissions levels as surrogates for evaluating regional air quality impact significance independent of chemical transformation processes. Projects with daily emissions that

exceed any of the following emission thresholds are recommended by the SCAQMD to be considered significant under CEQA guidelines.

Table 5
Daily Emissions Thresholds

Pollutant	Construction	Operations
ROG	75	55
NOx	100	55
CO	550	550
PM-10	150	150
PM-2.5	55	55
SOx	150	150
Lead	3	3

Source: SCAQMD CEQA Air Quality Handbook, November, 1993 Rev.

CONSTRUCTION ACTIVITY IMPACTS

In May 2023 the California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released the latest version of CalEEMod2022.1. CalEEMod provides a model by which to calculate both construction emissions and operational emissions from a variety of land use projects. It calculates both the daily maximum and annual average emissions for criteria pollutants as well as total or annual greenhouse gas (GHG) emissions.

The project proposes to develop a truck parking and truck terminal project that would enable truckers to stage loads and redistribute goods within a net 9.2-acre site located along Cajon Boulevard in Unincorporated San Bernardino County. The project will construct a 26,680-sf truck terminal with 32 loading docks. Approximately 305,300 sf of the site will be hardscaped, and 66,000 sf will be landscaped. Construction was assumed to begin in 2024. The project is anticipated to require minimal cut and fill with any cut being reused to balance of the site through grading, which will minimize import/export of material.

Construction was modeled in CalEEMod2022.1 using the default construction equipment and schedule for a project of this size and categorization as shown in Table 6.

Table 6
Construction Activity Equipment Fleet

Phase Name and Duration	Equipment
Sita Pran (10 days)	3 Dozers
Site Prep (10 days)	4 Loader/Backhoes
	1 Grader
Grading (20 days)	2 Excavators
Grading (30 days)	2 Scrapers
	1 Dozer
	2 Loader/Backhoes
	1 Crane
Construction (200 days)	3 Loader/Backhoes
Construction (300 days)	1 Welder
	1 Generator Set
	3 Forklifts
	2 Pavers
Paving (20 days)	2 Paving Equipment
	2 Rollers

Utilizing this indicated equipment fleet and durations shown in Table 6 the following worst-case daily construction emissions are calculated by CalEEMod and are listed in Table 7.

Table 7
Construction Activity Emissions
Maximum Daily Emissions (pounds/day)

Maximal Construction Emissions	ROG	NOx	СО	SO ₂	PM-10	PM-2.5
2024	3.7	36.1	34.0	0.1	6.9	4.1
2025	17.7	10.7	14.1	0.1	0.6	0.5
SCAQMD Thresholds	75	100	550	150	150	55

With required dust suppression during grading activities, peak daily construction activity emissions are calculated to be below SCAQMD CEQA thresholds without the need for added mitigation.

Construction equipment exhaust contains carcinogenic compounds within the diesel exhaust particulates. The toxicity of diesel exhaust is evaluated relative to a 24-hour per day, 365 days per year, 70-year lifetime exposure. The SCAQMD does not generally require the analysis of construction-related diesel emissions relative to health risk due to the short period for which the majority of diesel exhaust would occur. Health risk analyses are typically assessed over a 9-, 30-, or 70-year timeframe and not over a relatively brief construction period due to the lack of health risk associated with such a brief exposure.

LOCALIZED SIGNIFICANCE THRESHOLDS

The SCAQMD has developed analysis parameters to evaluate ambient air quality on a local level in addition to the more regional emissions-based thresholds of significance. These analysis elements are called Localized Significance Thresholds (LSTs). LSTs were developed in response to Governing Board's Environmental Justice Enhancement Initiative 1-4 and the LST methodology was provisionally adopted in October 2003 and formally approved by SCAQMD's Mobile Source Committee in February 2005.

Use of an LST analysis for a project is optional. For the proposed project, the primary source of possible LST impact would be during construction. LSTs are applicable for a sensitive receptor where it is possible that an individual could remain for 24 hours such as a residence, hospital or convalescent facility.

LSTs are only applicable to the following criteria pollutants: oxides of nitrogen (NOx), carbon monoxide (CO), and particulate matter (PM-10 and PM-2.5). LSTs represent the maximum emissions from a project that are not expected to cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard, and are developed based on the ambient concentrations of that pollutant for each source receptor area and distance to the nearest sensitive receptor.

LST screening tables are available for 25, 50, 100, 200- and 500-meter source-receptor distances. The nearest possible residence is north of Kendall Drive approximately 350 feet from the closest site perimeter. Therefore, a 100-meter source-receptor distance was modeled.

LST pollutant screening level concentration data is currently published for 1, 2- and 5-acre sites for varying distances. For this project, the most stringent thresholds for a 1-acre site were applied.

The following thresholds and emissions in Table 8 are therefore determined (pounds per day):

Table 8
LST and Project Emissions (pounds/day)

=== 1 0100 ====== (pounds, auj)							
1.0 acre/100 meters Central San Bernardino Valley	CO	NOx	PM-10	PM-2.5			
LST Threshold	2,141	211	33	9			
Max On-Site Emissions							
2024	34	36	7	4			
2025	14	11	1	1			

CalEEMod Output in Appendix

LSTs were compared to the maximum daily construction activities. As seen in Table 8, with application of mandatory dust suppression all construction emissions meet the LST for construction thresholds. LST impacts are less-than-significant.

OPERATIONAL IMPACTS

The project will generate 106 daily trips using trip generation numbers provided in the project traffic report. The vehicle fleet for this warehousing use was modified to reflect the anticipated vehicle mix provided in the traffic analysis trip generation rates which are calculated as 51% automobiles, 6% 2-axle trucks and 43% 3 and 4 axle trucks. Operational emissions were calculated using CalEEMod2022.1 for an assumed completion year of 2025. The operational impacts are shown in Table 9. As shown, operational emissions will not exceed applicable SCAQMD operational emissions CEQA thresholds of significance.

Table 9
Daily Operational Impacts (2025)

	Du	ny Operano.	nai impacts	(2020)				
	Operational Emissions (lbs/day)							
Source	ROG	NOx	CO	SO ₂	PM-10	PM-2.5		
Area	0.9	< 0.1	1.2	< 0.1	< 0.1	< 0.1		
Energy	< 0.1	0.2	0.1	< 0.1	< 0.1	< 0.1		
Water	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
Waste	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1		
Mobile	0.2	3.9	4.9	< 0.1	1.7	0.5		
Total	1.1	4.1	6.2	< 0.1	1.7	0.5		
SCAQMD	55	55	550	150	150	55		
Threshold	33	33	330	130	130	33		
Exceeds Threshold?	No	No	No	No	No	No		

Source: CalEEMod Output in Appendix

CONSTRUCTION EMISSIONS MINIMIZATION

Construction activities are not anticipated to cause dust emissions to exceed SCAQMD CEQA thresholds. Nevertheless, emissions minimization through enhanced dust control measures is recommended for use because of the non-attainment status of the air basin. Recommended measures include:

Fugitive Dust Control

- Apply soil stabilizers or moisten inactive areas.
- Water exposed surfaces as needed to avoid visible dust leaving the construction site (typically 2-3 times/day).
- Cover all stock piles with tarps at the end of each day or as needed.
- Provide water spray during loading and unloading of earthen materials.
- Minimize in-out traffic from construction zone
- Cover all trucks hauling dirt, sand, or loose material and require all trucks to maintain at least two feet of freeboard
- Sweep streets daily if visible soil material is carried out from the construction site

Similarly, ozone precursor emissions (ROG and NOx) are calculated to be below SCAQMD CEQA thresholds. However, because of the regional non-attainment for photochemical smog, the use of reasonably available control measures for diesel exhaust is recommended. Combustion emissions control options include:

Exhaust Emissions Control

- Utilize well-tuned off-road construction equipment.
- Establish a preference for contractors using Tier 3 or better rated heavy equipment.
- Enforce 5-minute idling limits for both on-road trucks and off-road equipment.

GREENHOUSE GAS EMISSIONS

"Greenhouse gases" (so called because of their role in trapping heat near the surface of the earth) emitted by human activity are implicated in global climate change, commonly referred to as "global warming." These greenhouse gases contribute to an increase in the temperature of the earth's atmosphere by transparency to short wavelength visible sunlight, but near opacity to outgoing terrestrial long wavelength heat radiation in some parts of the infrared spectrum. The principal greenhouse gases (GHGs) are carbon dioxide, methane, nitrous oxide, ozone, and water vapor. For purposes of planning and regulation, Section 15364.5 of the California Code of Regulations defines GHGs to include carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride. Fossil fuel consumption in the transportation sector (onroad motor vehicles, off-highway mobile sources, and aircraft) is the single largest source of GHG emissions, accounting for approximately half of GHG emissions globally. Industrial and commercial sources are the second largest contributors of GHG emissions with about one-fourth of total emissions.

California has passed several bills and the Governor has signed at least three executive orders regarding greenhouse gases. GHG statues and executive orders (EO) include AB 32, SB 1368, EO S-03-05, EO S-20-06 and EO S-01-07.

AB 32 is one of the most significant pieces of environmental legislation that California has adopted. Among other things, it is designed to maintain California's reputation as a "national and international leader on energy conservation and environmental stewardship." It will have wideranging effects on California businesses and lifestyles as well as far reaching effects on other states and countries. A unique aspect of AB 32, beyond its broad and wide-ranging mandatory provisions and dramatic GHG reductions are the short time frames within which it must be implemented. Major components of the AB 32 include:

- Require the monitoring and reporting of GHG emissions beginning with sources or categories of sources that contribute the most to statewide emissions.
- Requires immediate "early action" control programs on the most readily controlled GHG sources.
- Mandates that by 2020, California's GHG emissions be reduced to 1990 levels.
- Forces an overall reduction of GHG gases in California by 25-40%, from business as usual, to be achieved by 2020.
- Must complement efforts to achieve and maintain federal and state ambient air quality standards and to reduce toxic air contaminants.

Statewide, the framework for developing the implementing regulations for AB 32 is under way. Maximum GHG reductions are expected to derive from increased vehicle fuel efficiency, from greater use of renewable energy and from increased structural energy efficiency. Additionally, through the California Climate Action Registry (CCAR now called the Climate Action Reserve), general and industry-specific protocols for assessing and reporting GHG emissions have been

developed. GHG sources are categorized into direct sources (i.e. company owned) and indirect sources (i.e. not company owned). Direct sources include combustion emissions from on-and off-road mobile sources, and fugitive emissions. Indirect sources include off-site electricity generation and non-company owned mobile sources.

THRESHOLDS OF SIGNIFICANCE

In response to the requirements of SB97, the State Resources Agency developed guidelines for the treatment of GHG emissions under CEQA. These new guidelines became state laws as part of Title 14 of the California Code of Regulations in March, 2010. The CEQA Appendix G guidelines were modified to include GHG as a required analysis element. A project would have a potentially significant impact if it:

- Generates GHG emissions, directly or indirectly, that may have a significant impact on the environment, or,
- Conflicts with an applicable plan, policy or regulation adopted to reduce GHG emissions.

Section 15064.4 of the Code specifies how significance of GHG emissions is to be evaluated. The process is broken down into quantification of project-related GHG emissions, making a determination of significance, and specification of any appropriate mitigation if impacts are found to be potentially significant. At each of these steps, the new GHG guidelines afford the lead agency with substantial flexibility.

Emissions identification may be quantitative, qualitative or based on performance standards. CEQA guidelines allow the lead agency to "select the model or methodology it considers most appropriate." The most common practice for transportation/combustion GHG emissions quantification is to use a computer model such as CalEEMod, as was used in the ensuing analysis.

The significance of those emissions then must be evaluated; the selection of a threshold of significance must take into consideration what level of GHG emissions would be cumulatively considerable. The guidelines are clear that they do not support a zero net emissions threshold. If the lead agency does not have sufficient expertise in evaluating GHG impacts, it may rely on thresholds adopted by an agency with greater expertise.

On December 5, 2008 the SCAQMD Governing Board adopted an Interim quantitative GHG Significance Threshold for industrial projects where the SCAQMD is the lead agency (e.g., stationary source permit projects, rules, plans, etc.) of 10,000 Metric Tons (MT) CO₂ equivalent/year. In the absence of an adopted numerical threshold of significance, project related GHG emissions in excess of the guideline level are presumed to trigger a requirement for enhanced GHG reduction at the project level.

PROJECT RELATED GHG EMISSIONS GENERATION

Construction Activity GHG Emissions

Project construction is assumed to span two calendar years. During project construction, the CalEEMod2022.1 computer model predicts that the construction activities will generate the annual CO₂e emissions identified in Table 10.

Table 10 Construction Emissions (Metric Tons CO₂e)

	CO ₂ e
Year 2024	352
Year 2025	155
Total	507.0
Amortized	16.9

CalEEMod Output provided in appendix

SCAQMD GHG emissions policy from construction activities is to amortize emissions over a 30-year lifetime. The amortized level is also provided. GHG impacts from construction are considered individually less-than-significant.

Project Operational GHG Emissions

The input assumptions for operational GHG emissions calculations, and the GHG conversion from consumption to annual regional CO₂e emissions are summarized in the CalEEMod2022.1 output files found in the appendix of this report.

The total operational and annualized construction emissions for the proposed project are identified in Table 11. The project GHG emissions are considered less-than-significant.

Table 11 Operational Emissions (Metric Tons CO₂e)

Consumption Source	MT CO ₂ e
Area Sources	0.6
Energy Utilization	50.1
Mobile Source	666.0
Solid Waste Generation	8.4
Water Consumption	16.3
Construction	16.9
Total	758.3
Guideline Threshold	3,000

CONSISTENCY WITH GHG PLANS, PROGRAMS AND POLICIES

In 2021, San Bernardino County published its the Regional Greenhouse Gas Reduction Plan (2021), which was an update to a previous plan drafted in 2014. The 2021 plan was in response to (AB) 32, the Global Warming Solutions Act of 2006. The law establishes a limit on greenhouse gas (GHG) emissions for the state of California to reduce state-wide emissions to 1990 levels by 2020. In 2016, the California Assembly and Senate expanded upon AB 32 with Senate Bill (SB) 32, which mandates a 40% reduction in GHG emissions from 1990 levels by 2030 (California Legislative Information, 2016). In January 2017, the California Air Resources Board (CARB) developed a plan (SB 32 Scoping Plan1) that charted a path towards the GHG reduction goal using all technologically feasible and cost-effective means (CARB, 2017).

In response to these initiatives, an informal project partnership, led by the San Bernardino Council of Governments (SBCOG), compiled a GHG emissions inventory and an evaluation of reduction measures that could be adopted by the 25 Partnership Cities of San Bernardino County. For the purposes of this report, this group is referred to as the San Bernardino Council of Governments and Participating San Bernardino County Jurisdictions Partnership (Partnership).

The Partnership committed to undertake the following actions that will reduce GHG emissions associated with its regional (or countywide) activities.

- 1. Prepare a baseline (2016) GHG emissions inventory for each of the 25 Partnership jurisdictions in the county.
- 2. Prepare future year (2020, 2030, and 2045) GHG emissions forecasts for each of the jurisdictions.
- 3. Develop general GHG reduction measures and jurisdiction-specific measures appropriate for each jurisdiction.
- 4. Develop consistent baseline information for jurisdictions to use for their development of community climate action plans (CAPs) meeting jurisdiction-identified reduction goals.

The goal is to develop consistent information in an efficient manner that can subsequently be used by individual jurisdictions that choose to develop and adopt CAPs for their jurisdictions. The reduction plan established a baseline GHG inventory and emissions forecast that can be referenced for any future GHG analyses and planning. It contains basic terms and concepts that may be useful for future planning.

For unincorporated San Bernardino County, it is assumed that emissions reductions will be met through a combination of state (80%) and local (20%) efforts. Projects that demonstrate consistency with the strategies, actions, and emission reduction targets contained in the Reduction Plan would have a less than significant impact on climate change. The project will be compliant with the goal and objectives set forth in the Partnership's Reduction Plan as shown on Table 12. Therefore, consistency with the plan would result in a less than significant impact with respect to GHG emissions.

Table 12 GHG Reduction Measures and Estimated 2030 reductions for Unincorporated San Bernardino County

Measure Number	Measure Description	Reductions (MTCO2e)
State Measures		
State-SB 100	SB 100	303,807
State-SB 350	SB 350	132,965
State-T24	Title 24 (Energy Efficiency Standards)	1,302
State-Solar Water Heater	Solar Water Heaters (Residential)	213
State-Increased CHP	Increased Combined Heat and Power (Commercial)	1,257
State-OnRoad	State Fuel Efficiency Measures	509,334
State-SB 1383	Methane Capture	96,018
Total State Reductions		1,044,896
Local Measures		•
Building Energy		
Energy-1	Building Energy Efficiency	20,775
Energy-2	Lighting Efficiency	0
Energy-3	All Electric Buildings	0
Energy-5	Renewable Energy – New Commercial/Industrial	0
Energy-6	Solar Energy for Warehouse Space	0
Energy-7	Solar Installation for Existing Housing	30,274
Energy-8	Solar Installation for Existing Commercial/Industrial	88,198
Energy-9	Rooftop Gardens	0
Energy-10	Urban Tree Planting for Shading and Energy Savings	28
On-Road Transportation		
OnRoad-1	Alternative Fueled Transit Fleets	0
OnRoad-2	Encourage Use of Mass Transit	0
OnRoad-3	Transportation Demand Management and Synchronization	11,319
OnRoad-4	Expand Bike Routes	11,239
OnRoad-5	Community Fleet Electrification	0
Off-Road Equipment		
OffRoad-1	Electric-Powered Construction Equipment	0
OffRoad-2	Idling Ordinance	457
OffRoad-3	Electric Landscaping Equipment	0
Waste		
Waste-1	Methane Capture - Local	0
Waste-2	Waste Diversion and Reduction	72,474
Agriculture		
Agriculture-3	Methane Capture at Large Dairies	0
Wastewater		
Wastewater-1	Methane Recovery at Wastewater Treatment Plants	0
Wastewater-2	Equipment Upgrades and Wastewater Treatment Plants	0

Water Conveyance		
Water-1	Require Tier 1 Voluntary CALGreen Standards for New Construction	0
Water-2	Renovate Existing Buildings to Achieve Higher Levels of Water Efficiency	0
Water-3	Water-Efficient Landscaping Practices	2,973
GHG Performance Standard fo	r New Development	
PS-1	GHG Performance Standard for New Development (40% below projected BAU emissions for the project)	16,889
Total Local Reductions		254,625
Total Reductions		1,299,521

Notes: Values may not sum due to rounding.

CALEEMOD2022.1 COMPUTER MODEL OUTPUT

Route 66 Truck Terminal Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Route 66 Truck Terminal
Construction Start Date	1/16/2024
Operational Year	2025
Lead Agency	_
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	6.80
Location	19472 Cajon Blvd, San Bernardino, CA 92407, USA
County	San Bernardino-South Coast
City	Unincorporated
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5317
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq	Special Landscape	Population	Description
					ft)	Area (sq ft)		

Unrefrigerated Warehouse-No Rail	28.7	1000sqft	9.20	28,680	6,600	_	_	_
Other Asphalt Surfaces	305	1000sqft	7.00	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.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_		_	_	_	_	_	_	_	_	_	_
Unmit.	17.7	34.4	31.9	0.06	1.45	2.65	4.10	1.33	1.01	2.34	_	6,886	1.15	6,913
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	3.73	36.1	34.0	0.06	1.60	5.34	6.94	1.47	2.68	4.15	_	6,862	0.03	6,888
Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.43	9.74	10.8	0.02	0.42	0.47	0.89	0.39	0.18	0.57	_	2,114	0.30	2,126
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.26	1.78	1.96	< 0.005	0.08	0.09	0.16	0.07	0.03	0.10	_	350	0.05	352

2.2. Construction Emissions by Year, Unmitigated

Year	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily - Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	3.62	34.4	31.9	0.06	1.45	2.65	4.10	1.33	1.01	2.34	_	6,886	1.15	6,913
2025	17.7	10.7	14.1	0.02	0.43	0.20	0.63	0.40	0.05	0.45	_	2,712	1.04	2,730
Daily - Winter (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_
2024	3.73	36.1	34.0	0.06	1.60	5.34	6.94	1.47	2.68	4.15	_	6,862	0.03	6,888
2025	1.18	10.7	13.8	0.02	0.43	0.20	0.63	0.40	0.05	0.45	_	2,698	0.03	2,715
Average Daily	_	_	-	_	_	_	_	_	_	_	_	-	_	-
2024	1.05	9.74	10.8	0.02	0.42	0.47	0.89	0.39	0.18	0.57	_	2,114	0.30	2,126
2025	1.43	3.74	4.93	0.01	0.15	0.07	0.23	0.14	0.02	0.16	_	932	0.16	938
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
2024	0.19	1.78	1.96	< 0.005	0.08	0.09	0.16	0.07	0.03	0.10	_	350	0.05	352
2025	0.26	0.68	0.90	< 0.005	0.03	0.01	0.04	0.03	< 0.005	0.03	_	154	0.03	155

2.4. Operations Emissions Compared Against Thresholds

Un/Mit.	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	СО2Т	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.16	4.08	6.28	0.04	0.07	1.66	1.72	0.06	0.43	0.50	27.2	4,292	9.78	4,544
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.94	4.25	4.38	0.04	0.06	1.66	1.72	0.06	0.43	0.49	27.2	4,220	0.25	4,463

Average Daily (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	1.08	4.29	5.33	0.04	0.07	1.65	1.72	0.06	0.43	0.49	27.2	4,233	4.22	4,480
Annual (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unmit.	0.20	0.78	0.97	0.01	0.01	0.30	0.31	0.01	0.08	0.09	4.51	701	0.70	742

2.5. Operations Emissions by Sector, Unmitigated

Sector	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	-	_	_	_	_	_	_	_	_	_	_	-	_
Mobile	0.21	3.92	4.91	0.04	0.05	1.66	1.71	0.05	0.43	0.48	_	3,915	9.78	4,087
Area	0.94	0.01	1.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.13	_	5.15
Energy	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	301	_	302
Water	_	_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Waste	_	_	_	_	_	_	_	_	_	_	14.5	14.5	_	50.8
Total	1.16	4.08	6.28	0.04	0.07	1.66	1.72	0.06	0.43	0.50	27.2	4,292	9.78	4,544
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.20	4.10	4.25	0.03	0.05	1.66	1.71	0.05	0.43	0.48	_	3,847	0.25	4,011
Area	0.73	_	_	_	_	_	_	_	_	_	_	_	_	_
Energy	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	301	_	302
Water	_	_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Waste	_	_	_	_	_	_	_	_	_	_	14.5	14.5	_	50.8
Total	0.94	4.25	4.38	0.04	0.06	1.66	1.72	0.06	0.43	0.49	27.2	4,220	0.25	4,463
Average Daily	_	-	_	_	_	_	_	_	_	_	_	_	-	-

Mobile	0.20	4.13	4.36	0.03	0.05	1.65	1.70	0.05	0.43	0.48	_	3,857	4.22	4,025
Area	0.87	0.01	0.85	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	3.51	_	3.53
Energy	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	301	_	302
Water	_	_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Waste	_	_	_	_	_	_	_	_	_	_	14.5	14.5	_	50.8
Total	1.08	4.29	5.33	0.04	0.07	1.65	1.72	0.06	0.43	0.49	27.2	4,233	4.22	4,480
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Mobile	0.04	0.75	0.80	0.01	0.01	0.30	0.31	0.01	0.08	0.09	_	639	0.70	666
Area	0.16	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.58	_	0.58
Energy	< 0.005	0.03	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	49.9	_	50.1
Water	_	_	_	_	_	_	_	_	_	_	2.10	9.33	_	16.3
Waste	_	_	_	_	_	_	_	_	_	_	2.41	2.41	_	8.42
Total	0.20	0.78	0.97	0.01	0.01	0.30	0.31	0.01	0.08	0.09	4.51	701	0.70	742

3. Construction Emissions Details

3.1. Site Preparation (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_		_	_	_	_	_	_	_	_
Off-Road Equipment	3.65	36.0	32.9	0.05	1.60	_	1.60	1.47	_	1.47	_	5,296	_	5,314

Dust From Material Movement	_	_	_	_	_	5.11	5.11	_	2.63	2.63	_	_		_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.10	0.99	0.90	< 0.005	0.04	_	0.04	0.04	_	0.04	_	145	_	146
Dust From Material Movement	_	_	_	_	_	0.14	0.14	_	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
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.02	0.18	0.16	< 0.005	0.01	_	0.01	0.01	_	0.01	_	24.0	_	24.1
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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	-	_	-	-	-	_	-	-	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	-	_	_	_	_	_
Worker	0.09	0.10	1.12	0.00	0.00	0.23	0.23	0.00	0.05	0.05	_	231	0.03	234
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	6.42	0.01	6.51
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

Hauling	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.06	< 0.005	1.08
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00

3.3. Grading (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Onsite	_	_	_	_	_	_	_	_	<u> </u>	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	3.52	34.3	30.2	0.06	1.45	_	1.45	1.33	_	1.33	_	6,598	_	6,621
Dust From Material Movement	_	_	_	_	_	2.39	2.39	_	0.95	0.95	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	3.52	34.3	30.2	0.06	1.45	_	1.45	1.33	_	1.33	_	6,598	_	6,621
Dust From Material Movement	_	_	_	_	_	2.39	2.39	_	0.95	0.95	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.29	2.82	2.48	0.01	0.12	_	0.12	0.11	_	0.11	_	542	_	544

Dust From Material Movement	_	_	_	_	_	0.20	0.20	_	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
Annual	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Off-Road Equipment	0.05	0.51	0.45	< 0.005	0.02	_	0.02	0.02	_	0.02	_	89.8	_	90.1
Dust From Material Movement	_	_	_	_	_	0.04	0.04	_	0.01	0.01	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Offsite	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.10	0.10	1.69	0.00	0.00	0.26	0.26	0.00	0.06	0.06	_	288	1.15	292
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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	-	_	_	_	_	_	_	_	_	_
Worker	0.10	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	-	264	0.03	267
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
Hauling	0.00	0.00	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	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	_	22.0	0.04	22.3
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
Hauling	0.00	0.00	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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	3.64	0.01	3.69

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
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00

3.5. Building Construction (2024) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	_	0.50	0.46	_	0.46	_	2,398	_	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	1.20	11.2	13.1	0.02	0.50	_	0.50	0.46	_	0.46	_	2,398	_	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_		_	
Off-Road Equipment	0.62	5.80	6.78	0.01	0.26	_	0.26	0.24	_	0.24	_	1,239	_	1,243
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.11	1.06	1.24	< 0.005	0.05	_	0.05	0.04	_	0.04	_	205	_	206
Onsite truck	0.00	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	1.02	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	173	0.69	176
Vendor	< 0.005	0.17	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	147	0.41	155
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.06	0.07	0.77	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	159	0.02	161
Vendor	< 0.005	0.18	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	147	0.01	154
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.03	0.04	0.42	0.00	0.00	0.08	0.08	0.00	0.02	0.02	_	83.3	0.15	84.5
Vendor	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	_	76.2	0.09	79.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Annual	_	_	-	_	_	_	_	_	_	_	_	_	_	<u> </u>
Worker	0.01	0.01	0.08	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	13.8	0.03	14.0
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	12.6	0.02	13.2
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

3.7. Building Construction (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	_	0.43	0.40	_	0.40	_	2,398	_	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	1.13	10.4	13.0	0.02	0.43	_	0.43	0.40	_	0.40	_	2,398	_	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.35	3.21	4.01	0.01	0.13	_	0.13	0.12	_	0.12	_	737	_	739
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.06	0.59	0.73	< 0.005	0.02	_	0.02	0.02	_	0.02	_	122	_	122
Onsite truck	0.00	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	0.05	0.94	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	170	0.63	172
Vendor	< 0.005	0.16	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	145	0.41	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	-	_	_	_
Worker	0.05	0.06	0.71	0.00	0.00	0.16	0.16	0.00	0.04	0.04	_	156	0.02	158
Vendor	< 0.005	0.17	0.09	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	_	145	0.01	152
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00

Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.02	0.02	0.23	0.00	0.00	0.05	0.05	0.00	0.01	0.01	_	48.5	0.08	49.2
Vendor	< 0.005	0.05	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	_	44.6	0.05	46.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	8.03	0.01	8.14
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	_	7.38	0.01	7.73
Hauling	0.00	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. Paving (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Onsite	_	<u> </u>	_	_	_	_	_	_	_	_	_	<u> </u>	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.80	7.45	9.98	0.01	0.35	_	0.35	0.32	_	0.32	_	1,511	_	1,517
Paving	0.92	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.04	0.41	0.55	< 0.005	0.02	_	0.02	0.02	_	0.02	_	82.8	_	83.1
Paving	0.05	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00

Annual	_	_	_	_	_	_	_	_	_	_	_	_	<u> </u>	_
Off-Road Equipment	0.01	0.07	0.10	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	13.7	_	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
Offsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Worker	0.07	0.07	1.17	0.00	0.00	0.20	0.20	0.00	0.05	0.05	_	211	0.78	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
Hauling	0.00	0.00	0.00	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	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	_	10.8	0.02	10.9
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Hauling	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.78	< 0.005	1.81
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
Hauling	0.00	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. Architectural Coating (2025) - Unmitigated

Location	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	СО2Т	R	CO2e
Onsite	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Daily, Summer (Max)		_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.13	0.88	1.14	< 0.005	0.03	_	0.03	0.03	_	0.03		134		134
Architectura I Coatings	17.5	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Daily, Winter (Max)	_		_	_		_	_	_	_	_		_	_	_
Average Daily	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	0.01	0.05	0.06	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	7.32	_	7.34
Architectura I Coatings	0.96	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	0.00
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Off-Road Equipment	< 0.005	0.01	0.01	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	1.21	_	1.22
Architectura I Coatings	0.18	_	_	_	_	_	_	_	_	_	_	_	_	_
Onsite truck	0.00	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	0.01	0.01	0.19	0.00	0.00	0.03	0.03	0.00	0.01	0.01	_	33.9	0.13	34.5
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

Hauling	0.00	0.00	0.00	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	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	1.73	< 0.005	1.75
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
Hauling	0.00	0.00	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	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	_	0.29	< 0.005	0.29
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
Hauling	0.00	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	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	СО2Т	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		3.92	4.91	0.04	0.05	1.66	1.71	0.05	0.43	0.48	_	3,915	9.78	4,087
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

Total	0.21	3.92	4.91	0.04	0.05	1.66	1.71	0.05	0.43	0.48	_	3,915	9.78	4,087
Daily, Winter (Max)	_		_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		4.10	4.25	0.03	0.05	1.66	1.71	0.05	0.43	0.48	_	3,847	0.25	4,011
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
Total	0.20	4.10	4.25	0.03	0.05	1.66	1.71	0.05	0.43	0.48	_	3,847	0.25	4,011
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		0.75	0.80	0.01	0.01	0.30	0.31	0.01	0.08	0.09		639	0.70	666
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
Total	0.04	0.75	0.80	0.01	0.01	0.30	0.31	0.01	0.08	0.09	_	639	0.70	666

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Unrefrigerat ed Warehouse- Rail	_	_	_	_	_	_	_	_	_	_	_	127	_	127
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	127	_	127
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		_	_	_	_	_	_	_	_	_	_	127	_	127
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	127	_	127
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		_	_	_	_	_	_	_	_	_	_	20.9	_	21.1
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	_	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	_	20.9	_	21.1

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

		, 5.5.	,,		J	0 (, 0.0.)	· · · · · · · · · · · · · · · · · · ·	, ,	,					
Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e

Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	175	_	175
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	_	0.00
Total	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	175	_	175
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01		0.01	_	175	_	175
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	_	0.00
Total	0.01	0.15	0.12	< 0.005	0.01	_	0.01	0.01	_	0.01	_	175	_	175
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail	< 0.005	0.03	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	-	< 0.005	_	28.9	_	29.0
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	_	0.00	0.00	_	0.00	_	0.00	_	0.00
Total	< 0.005	0.03	0.02	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	28.9	_	29.0

4.3. Area Emissions by Source

4.3.1. Unmitigated

Source	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	0.64	_	_	_	_	_	_	_	_	_	_	_	_	_
Architectura I Coatings	0.10	_	_	_	_	_	_	_	_	_	_	_	_	_
Landscape Equipment	0.20	0.01	1.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.13	_	5.15
Total	0.94	0.01	1.25	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	5.13	_	5.15
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	0.64	_	_	_	_	_	_	_	_	_	_	_	_	_
Architectura I Coatings	0.10	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	0.73	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Consumer Products	0.12	-	_	_	_	_	_	_	_	_	-	_	-	_
Architectura I Coatings	0.02	_	_	_	_	_	_	_	_	_	_	_	_	_
Landscape Equipment	0.03	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.58	_	0.58

Total	0.16	< 0.005	0.16	< 0.005	< 0.005	_	< 0.005	< 0.005	_	< 0.005	_	0.58	_	0.58

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

Land Use	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		_	_	_	_	_	_	_	_	_	12.7	56.4	_	98.4
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	12.7	56.4	-	98.4
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Unrefrigerat ed Warehouse- Rail		_	_	_	_	_	_	_	_	_	2.10	9.33	_	16.3
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	2.10	9.33	_	16.3

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

Land Use	ROG	NOx		SO2	PM10E	PM10D				PM2.5T	BCO2	СО2Т	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail			_		_	_					14.5	14.5		50.8
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	14.5	14.5	_	50.8
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail			_	_		_	_	_	_		14.5	14.5		50.8

Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	14.5	14.5	_	50.8
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Unrefrigerat ed Warehouse- No Rail		_	_	_	_	_	_	_	_	_	2.41	2.41	_	8.42
Other Asphalt Surfaces	_	_	_	_	_	_	_	_	_	_	0.00	0.00	_	0.00
Total	_	_	_	_	_	_	_	_	_	_	2.41	2.41	_	8.42

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

	,	,	,,, .			` ,	J ,	,	,					
Land Use	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

	(,,	,,, .	ioi ainiaai,	J	C (1.0, 0.0.)	J. G.G, ,	. ,	,					
Equipment Type	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Equipment Type	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

Equipment Type		NOx	co	SO2	PM10E				PM2.5D	PM2.5T	BCO2	СО2Т	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

Vegetation	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	СО2Т	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	ROG	NOx	со	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Total	_	_	_	_	_	_	_	_	_	_	_	_	_	_

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Species	ROG	NOx	СО	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	CO2T	R	CO2e
Daily, Summer (Max)	-	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_

Sequestere d	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Daily, Winter (Max)	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequestere d	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Annual	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Avoided	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Sequestere d	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Removed	_	_	_	_	_	_	_	_	_	_	_	_	_	_
Subtotal	_	_	_	_	_	_	_	_	_	_	_	_	_	_
_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	2/14/2024	2/28/2024	5.00	10.0	_
Grading	Grading	2/29/2024	4/11/2024	5.00	30.0	_
Building Construction	Building Construction	4/12/2024	6/6/2025	5.00	300	_
Paving	Paving	6/7/2025	7/5/2025	5.00	20.0	_
Architectural Coating	Architectural Coating	7/6/2025	8/3/2025	5.00	20.0	_

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Average	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Site Preparation	_	_	_	_
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	_	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	_	_	HHDT
Grading	_	_	_	_
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	_	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	_	_	HHDT
Building Construction	_	_	_	_
Building Construction	Worker	12.0	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	4.70	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	2.41	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	43,020	14,340	18,300

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Site Preparation	_	_	15.0	0.00	_
Grading	_	_	90.0	0.00	_
Paving	0.00	0.00	0.00	0.00	7.00

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%
Other Asphalt Surfaces	7.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. 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	106	106	106	38,732	1,965	1,965	1,965	717,085
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	43,020	14,340	18,300

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	132,464	349	0.0330	0.0040	545,226
Other Asphalt Surfaces	0.00	349	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	6,632,250	105,990
Other Asphalt Surfaces	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	27.0	_
Other Asphalt Surfaces	0.00	_

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	CMD	Quantity (kg)	Operations Leak Rate	Sorvice Look Date	Times Serviced
Land Use Type	Equipment Type	Remyerani	GWF	Qualitity (kg)	Operations Leak Nate	Service Leak Nate	Times Serviced

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
- qa.po , po			1.104.10 por 24)			

5.16.2. Process Boilers

Facilities and Time	Fuel Time	Nicosala a a	Doilor Doting (NANADty/by)	Deiby Heat Innyt (MANADty/day)	A normal Linest Innest (NANADtraken)
Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annuai Heat Input (MMBtu/yr)

5.17. User Defined

l Fauinment Type	Thurlyna
Legalpinent Type	The ripe

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

 Vegetation Land Use Type
 Vegetation Soil Type
 Initial Acres
 Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type Initial Acres Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	27.9	annual days of extreme heat
Extreme Precipitation	12.0	annual days with precipitation above 20 mm
Sea Level Rise	_	meters of inundation depth
Wildfire	21.2	annual hectares burned

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events. Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	0	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	0	0	0	N/A
Wildfire	0	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	1	1	1	2
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2

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

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

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

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

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	_
AQ-Ozone	99.1
AQ-PM	60.9
AQ-DPM	67.4
Drinking Water	96.3
Lead Risk Housing	8.87
Pesticides	0.00
Toxic Releases	58.6
Traffic	72.8
Effect Indicators	
CleanUp Sites	94.1
Groundwater	68.6

Haz Waste Facilities/Generators	63.6
Impaired Water Bodies	0.00
Solid Waste	75.7
Sensitive Population	_
Asthma	56.5
Cardio-vascular	74.7
Low Birth Weights	44.5
Socioeconomic Factor Indicators	_
Education	61.1
Housing	0.94
Linguistic	36.0
Poverty	19.4
Unemployment	83.2

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	84.02412421
Employed	1.591171564
Median HI	79.9563711
Education	_
Bachelor's or higher	28.85923264
High school enrollment	17.31040678
Preschool enrollment	36.78942641
Transportation	_
Auto Access	72.44963429

Active commuting	7.917361735
Social	_
2-parent households	44.74528423
Voting	49.54446298
Neighborhood	_
Alcohol availability	75.52932119
Park access	7.04478378
Retail density	9.457205184
Supermarket access	35.77569614
Tree canopy	15.46259464
Housing	_
Homeownership	91.76183755
Housing habitability	92.04414218
Low-inc homeowner severe housing cost burden	90.09367381
Low-inc renter severe housing cost burden	81.05992557
Uncrowded housing	69.47260362
Health Outcomes	_
Insured adults	52.11086873
Arthritis	41.4
Asthma ER Admissions	28.5
High Blood Pressure	35.9
Cancer (excluding skin)	49.7
Asthma	32.2
Coronary Heart Disease	57.7
Chronic Obstructive Pulmonary Disease	56.7
Diagnosed Diabetes	36.9
Life Expectancy at Birth	29.0

Cognitively Disabled	60.3
Physically Disabled	57.4
Heart Attack ER Admissions	27.5
Mental Health Not Good	47.3
Chronic Kidney Disease	45.1
Obesity	33.5
Pedestrian Injuries	91.8
Physical Health Not Good	49.9
Stroke	39.4
Health Risk Behaviors	
Binge Drinking	26.9
Current Smoker	51.2
No Leisure Time for Physical Activity	54.9
Climate Change Exposures	
Wildfire Risk	45.4
SLR Inundation Area	0.0
Children	40.5
Elderly	74.7
English Speaking	78.9
Foreign-born	23.9
Outdoor Workers	16.6
Climate Change Adaptive Capacity	_
Impervious Surface Cover	79.3
Traffic Density	68.0
Traffic Access	23.0
Other Indices	_
Hardship	39.4

Other Decision Support	_
2016 Voting	59.4

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	70.0
Healthy Places Index Score for Project Location (b)	36.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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	used actual site data
Operations: Vehicle Data	trip generation per traffic analysis
Operations: Fleet Mix	fleet mix per traffic analysis 51% auto, 6% MD, 43% HDD
Construction: Construction Phases	no demo

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.