TECHNICAL MEMORANDUM

DATE: April 1, 2026
TO: Donald Shiveley, Quick Quack Carwash
FROM: Haseeb Qureshi, Urban Crossroads, Inc.
JOB NO: 17009-02 AQ Assessment

SUBJECT: QUICK QUACK CARWASH (DPR-25-4) AIR QUALITY ASSESSMENT

Urban Crossroads, Inc. is pleased to provide the following Air Quality Assessment for the Quick Quack Carwash (**Project**), which is located at the northeast corner of Tukwet Canyon Parkway and Desert Lawn Drive in the City of Calimesa. This memorandum was prepared to evaluate the potential air quality impacts associated with the proposed change to the Project and to provide a comparison of potential air quality impacts to the entitled use.

PROJECT OVERVIEW

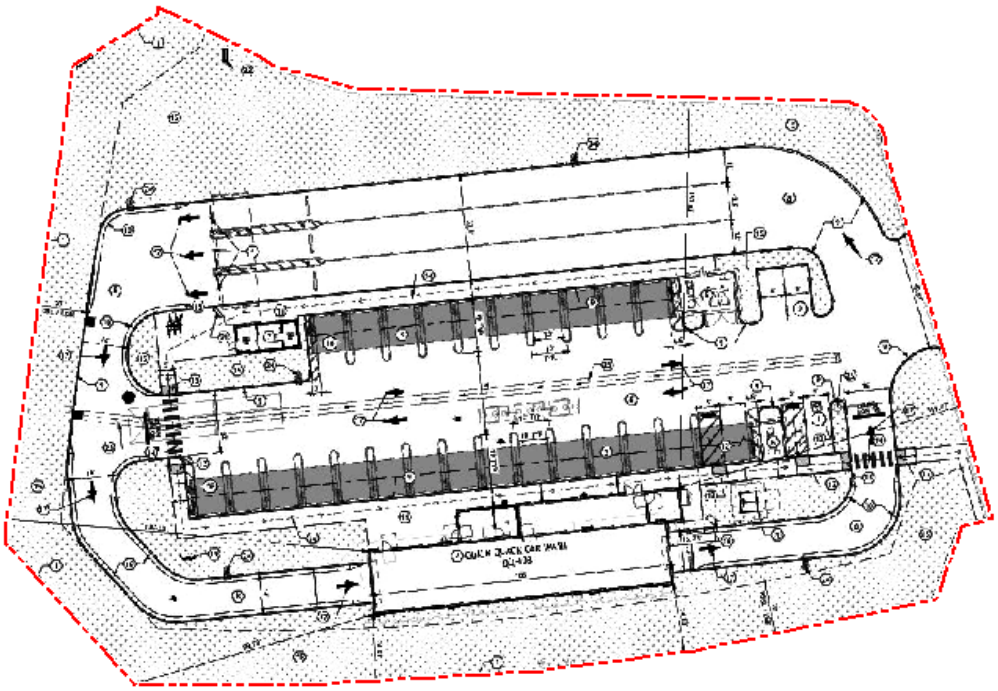
The Project site was previously evaluated assuming a 13,394 square foot pharmacy/drugstore with drive-through window on the same parcel as the proposed Project. It should be noted that the previous analysis evaluated other uses within the overall shopping center as well. The purpose of the following analysis is to compare the emissions presented in the AQ Assessment to those associated with the Project change and to evaluate the potential air quality impacts associated with the operation of the Project change.

The Project proposes instead to develop the site with a 3,366 square foot single tunnel automated carwash on the currently undeveloped parcel. The Project is assumed to have an opening year of 2027. Exhibit 1 presents a preliminary site plan.

SUMMARY OF FINDINGS

Results of the assessment indicate that the Project would result in a less than significant impact with respect to air quality, and no mitigation is required.

EXHIBIT 1: SITE PLAN



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LEGEND:

Site Boundary

PROJECT AIR QUALITY IMPACTS

AIR QUALITY SETTING

South Coast Air Basin (SCAB)

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

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

Regional Climate

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

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

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

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

Due to its generally clear weather, about three-quarters of available sunshine is received in the SCAB. The remaining one-quarter is absorbed by clouds. The ultraviolet portion of this abundant radiation

is a key factor in photochemical reactions. On the shortest day of the year there are approximately 10 hours of possible sunshine, and on the longest day of the year there are approximately 14½ hours of possible sunshine.

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

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

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

Wind Patterns and Project Location

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

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

Criteria Pollutants

Both the U.S. Environmental Protection Agency (EPA) and the California Air Resources Board (CARB) have established ambient air quality standards for common pollutants. These ambient air quality standards are levels of contaminants representing safe levels that avoid specific adverse health effects associated with each pollutant. The ambient air quality standards cover what are called "criteria" pollutants because the health and other effects of each pollutant are described in criteria documents. The six criteria pollutants are ozone (O_3) (precursor emissions include NO_X and reactive organic gases (ROG), CO, particulate matter (PM), nitrogen dioxide (NO_2), sulfur dioxide (SO_2), and lead. Areas that meet ambient air quality standards are classified as attainment areas, while areas that do not meet these standards are classified as nonattainment areas. The Riverside County portion of the SCAB is designated as a nonattainment area for the federal O_3 and $PM_{2.5}$ standards and is also a nonattainment area for the state standards for O_3, PM_{10}, and $PM_{2.5}$.

Toxic Air Contaminants (TAC) Trend

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

Project-related Receptors

Receptors in the Project study area are described below and shown in Exhibit 2. Localized air quality impacts were evaluated at sensitive receptor land uses nearest the Project site. All distances are measured from the Project site boundary to the outdoor living areas (e.g., backyards) or at the building façade, whichever is closer to the Project site.

R1: Location R1 represents the existing residence at 1044 Raven Court, approximately 35 feet south of the Project site.

R2: Location R2 represents the existing Panda Express at 1028 Cherry Valley Boulevard, approximately 39 feet east of the Project site.

R3: Location R3 represents the existing 7-11 Gas Station at 1020 Cherry Valley Boulevard, approximately 30 feet north of the Project site.

R4: Location R4 represents the existing residence at 1096 Poinsettia Circle, approximately 53 feet west of the Project site.

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

REGULATORY BACKGROUND

FEDERAL REGULATIONS

The EPA is responsible for setting and enforcing the national ambient air quality standards (NAAQS) for O_3, CO, NO_X, SO_2, PM_{10}, and lead (Pb) (3). The EPA has jurisdiction over emissions sources that are under the authority of the federal government including aircraft, locomotives, and emissions sources outside state waters (Outer Continental Shelf). The EPA also establishes emission standards for vehicles sold in states other than California. Automobiles sold in California must meet the stricter emission requirements of CARB.

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

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

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

CALIFORNIA REGULATIONS

CARB

The CARB, which became part of the California EPA (CalEPA) in 1991, is responsible for ensuring implementation of the California Clean Air Act (AB 2595), responding to the federal CAA, and for regulating emissions from consumer products and motor vehicles. AB 2595 mandates achievement of the maximum degree of emissions reductions possible from vehicular and other mobile sources in order to attain the state ambient air quality standards by the earliest practical date. The CARB established the California ambient air quality standards (CAAQS) for all pollutants for which the federal government has NAAQS and, in addition, establishes standards for SO_4, visibility, hydrogen sulfide (H_2S), and vinyl chloride (C_2H_3Cl). However, at this time, H_2S and C_2H_3Cl are not measured at any monitoring stations in the SCAB because they are not considered to be a regional air quality problem. Generally, the CAAQS are more stringent than the NAAQS (7) (8).

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

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

- Application of Best Available Retrofit Control Technology to existing sources;
- Developing control programs for area sources (e.g., architectural coatings and solvents) and indirect sources (e.g., motor vehicle use generated by residential and commercial development);
- A District permitting system designed to allow no net increase in emissions from any new or modified permitted sources of emissions;
- Implementing reasonably available transportation control measures and assuring a substantial reduction in growth rate of vehicle trips and miles traveled;
- Significant use of low emissions vehicles by fleet operators;
- Sufficient control strategies to achieve a 5% or more annual reduction in emissions or 15% or more in a period of three years for ROGs, NO_X, CO and PM_{10}. However, air basins may use an alternative emission reduction strategy that achieves a reduction of less than 5% per year under certain circumstances.

AQMP

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

APPLICABLE REGULATORY REQUIREMENTS

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

SCAQMD Rule 403

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

- Portions of a construction site to remain inactive longer than a period of three months will be seeded and watered until grass cover is grown or otherwise stabilized.
- All on-site roads will be paved as soon as feasible or watered periodically or chemically stabilized.
- All material transported off-site will be either sufficiently watered or securely covered to prevent excessive amounts of dust.
- The area disturbed by clearing, grading, earthmoving, or excavation operations will be minimized at all times.

- Where vehicles leave a construction site and enter adjacent public streets, the streets will be swept daily or washed down at the end of the workday to remove soil tracked onto the paved surface.

SCAQMD Rule 1113

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

METHODOLOGY

The California Air Pollution Control Officers Association (CAPCOA) in conjunction with other California air districts, including SCAQMD, released CalEEMod 2022 in May 2022. CalEEMod periodically releases updates, as such the latest version available at the time of this report has been utilized in this analysis. The purpose of this model is to calculate construction-source and operational-source criteria pollutant (VOCs, NO_X, SO_X, CO, PM_{10}, and $PM_{2.5}$) and GHG emissions from direct and indirect sources; and quantify applicable air quality and GHG reductions achieved from mitigation measures (12). Accordingly, the latest version of CalEEMod has been used for this Project to determine construction and operational air quality and GHG emissions. Output from the model runs for both construction and operational activity are provided in Appendix 1.

STANDARDS OF SIGNIFICANCE

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

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

AIR QUALITY REGIONAL EMISSIONS THRESHOLDS

The SCAQMD has developed regional significance thresholds for criteria pollutants, as summarized at Table 1 (14). The SCAQMD's CEQA Air Quality Significance Thresholds (March 2023) indicate that any projects in the SCAB with daily emissions that exceed any of the indicated thresholds should be considered as having an individually and cumulatively significant air quality impact.

TABLE 1: REGIONAL EMISSIONS SIGNIFICANCE THRESHOLDS

Pollutant	Construction	Operations
NO_X	100 lbs/day	55 lbs/day
VOC	75 lbs/day	55 lbs/day
PM_{10}	150 lbs/day	150 lbs/day
$PM_{2.5}$	55 lbs/day	55 lbs/day
SO_X	150 lbs/day	150 lbs/day
CO	550 lbs/day	550 lbs/day
Pb	3 lbs/day	3 lbs/day

lbs/day = Pounds Per Day

AIR QUALITY LOCALIZED EMISSIONS THRESHOLDS

For this Project, the appropriate SRA for the LST analysis is the SCAQMD Banning Airport monitoring station (SRA 29). LSTs apply to CO, NO_2, PM_{10}, and $PM_{2.5}$. The SCAQMD produced look-up tables for projects less than or equal to 5 acres in size. The SCAQMD's screening look-up tables are utilized in determining localized impacts. It should be noted that since the look-up tables identify thresholds at only 1 acre, 2 acres, and 5 acres, linear regression has been utilized to determine localized significance thresholds. Consistent with SCAQMD guidance, the thresholds presented in Table 2 were calculated by interpolating the threshold values for the Project's disturbed acreage.

The acres disturbed is based on the equipment list and days in the site preparation and grading phase according to the anticipated maximum number of acres a given piece of equipment can pass over in an 8-hour workday. The equipment-specific grading rates are summarized in the CalEEMod user's guide, Appendix C: Emission Calculation Details for CalEEMod (15). It should be noted that the disturbed area per day is representative of a piece of equipment making multiple passes over the same land area. In other words, one Rubber Tired Dozer can make multiple passes over the same land area totaling 0.5 acres in a given 8-hour day. Appendix A of the CalEEMod User Manual only identifies equipment-specific grading rates for Crawler Tractors, Graders, Rubber Tired Dozers, and Scrapers; therefore, Tractors/Loaders/Backhoes equipment that was included in the site preparation and grading phase was replaced with Crawler Tractors. For analytical purposes, emissions associated with peak site preparation and grading activities are considered for purposes of localized significance thresholds (LSTs) since this phase represents the maximum localized emissions that would occur. The Project's construction activities could disturb a maximum of approximately 1.5 acres per day for site preparation and grading activities. Any other construction phases of development would result in lesser emissions and consequently lesser impacts than what is disclosed herein. As such, Table 2 presents thresholds for localized construction and operational emissions.

TABLE 2: MAXIMUM DAILY LOCALIZED EMISSIONS THRESHOLDS

Source	Activity	Emissions (lbs/day)			
		NO_X	CO	PM_{10}	$PM_{2.5}$
Construction	Site Preparation	126 lbs/day	1,271 lbs/day	8 lbs/day	5 lbs/day
	Grading	126 lbs/day	1,271 lbs/day	8 lbs/day	5 lbs/day

[1]Source of localized significance threshold (LSTs) is provided on page 18.

CONSTRUCTION ACTIVITIES

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

- Site Preparation
- Grading
- Building Construction
- Paving
- Architectural Coating

GRADING ACTIVITIES

Dust is typically a major concern during grading activities. Because such emissions are not amenable to collection and discharge through a controlled source, they are called "fugitive emissions." Fugitive dust emissions rates vary as a function of many parameters (soil silt, soil moisture, wind speed, area disturbed, number of vehicles, depth of disturbance or excavation, etc.). CalEEMod was utilized to calculate fugitive dust emissions resulting from this phase of activity. This analysis assumes that earthwork activities are expected to balance on site and no import or export of soil would be required.

ON-ROAD TRIPS

Construction generates on-road vehicle emissions from vehicle usage for worker and vendor trucks commuting to and from the site. The number of worker and vendor trips per phase is presented below in Table 3 and are based on CalEEMod defaults.

TABLE 3: CONSTRUCTION TRIP ASSUMPTIONS

Construction Activity	Worker Trips Per Day	Vendor Trips Per Day
Site Preparation	8	0
Grading	10	0
Building Construction	1	1
Paving	13	0
Architectural Coating	1	0

Construction Duration

For purposes of analysis, construction of Project is expected to commence in October 2026 and would last through July 2027. The construction schedule utilized in the analysis represents a "worst-case" analysis scenario should construction occur any time after the respective dates since emission factors for construction decrease as time passes and the analysis year increases due to emission regulations becoming more stringent[2]. The duration of construction activity and associated equipment represents a reasonable approximation of the expected construction fleet as required per *CEQA Guidelines* (16).

Table 4: Construction Duration

Construction Activity	Start Date	End Date	Days
Site Preparation	10/1/2026	10/2/2026	2
Grading	10/5/2026	10/8/2026	4
Building Construction	10/9/2026	7/15/2027	200
Paving	7/2/2027	7/15/2027	10
Architectural Coating	7/2/2027	7/15/2027	10

Construction Equipment

Consistent with industry standards and typical construction practices, each piece of equipment will operate up to a total of eight (8) hours per day, or more than two-thirds of the period during which construction activities are allowed pursuant to the code.

[2] As shown in the CalEEMod User's Guide Version 2022, Appendix G "Table G-11. Statewide Average Annual Offroad Equipment Emission Factors" as the analysis year increases, emission factors for the same equipment pieces decrease due to the natural turnover of older equipment being replaced by newer less polluting equipment and new regulatory requirements.

TABLE 5: CONSTRUCTION EQUIPMENT

Construction Activity	Equipment[1]	Quantity	Hours
Site Preparation	Graders	1	8
	Rubber Tired Dozers	1	8
	Crawler Tractors	1	8
Grading	Graders	1	8
	Rubber Tired Dozers	1	8
	Crawler Tractors	2	8
Building Construction	Cranes	1	8
	Forklifts	1	8
	Generator Sets	1	8
	Tractors/Loaders/Backhoes	1	8
	Welders	3	8
Paving	Cement and Mortar Mixers	1	8
	Pavers	1	8
	Paving Equipment	1	8
	Rollers	1	8
	Tractors/Loaders/Backhoes	1	8
Architectural Coating	Air Compressors	1	8

[1] In order to account for fugitive dust emissions, Crawler Tractors were used in lieu of Tractors/Loaders/Backhoes.

REGIONAL CONSTRUCTION EMISSIONS SUMMARY

The estimated maximum daily construction emissions without mitigation are summarized in Table 6. Under the assumed scenarios, emissions resulting from the Project construction will not exceed thresholds established by the SCAQMD for emissions of any criteria pollutant and no mitigation is required. Detailed construction model outputs are presented in Appendix 1.

TABLE 6: REGIONAL CONSTRUCTION EMISSIONS SUMMARY

Year	Emissions (lbs/day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
2027	5.78	15.53	21.04	0.04	0.71	0.53
Winter						
2026	1.83	15.88	16.15	0.02	3.10	1.73
2027	1.11	9.50	11.47	0.02	0.33	0.29
Maximum Daily Emissions	5.78	15.88	21.04	0.04	3.10	1.73
SCAQMD Regional Thresholds	75	100	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

[1] PM10 and PM2.5 source emissions reflect 3x daily watering per SCAQMD Rule 403 for fugitive dust.

[2] VOC source emissions reflect SCAQMD Rule 1113 for Architectural Coatings.

REGIONAL OPERATIONAL EMISSIONS

Approved Use

As noted previously, the site was evaluated assuming the development of 13,394 square feet of pharmacy/drug store with drive-through window use on the parcel located on the northeast corner of Tukwet Canyon Parkway and Desert Lawn Drive. The estimated operation-source emissions from the Approved use are summarized in Table 7. Detailed operation model outputs are presented in Appendix 2.

The Approved related operational air quality impacts derive primarily from vehicle trips generated by the approved use. Trip characteristics available from the *Quick Quack Carwash (PPT180009) Trip Generation Assessment* were utilized in this analysis to determine the trip generation associated with the Approved use (17).

TABLE 7: MAXIMUM DAILY OPERATIONAL EMISSIONS – APPROVED USE

Source	Emissions (lbs/day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
Mobile	2.64	2.93	28.19	0.08	6.81	1.76
Area	0.43	0.00	0.58	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Maximum Daily Emissions	3.07	2.95	28.79	0.08	6.81	1.77
Winter						
Mobile	2.49	3.14	23.26	0.07	6.81	1.76
Area	0.33	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.02	0.02	0.00	0.00	0.00
Maximum Daily Emissions	2.82	3.16	23.27	0.07	6.81	1.77

Proposed Project

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

The Project related operational air quality impacts derive primarily from vehicle trips generated by the Project. Trip characteristics available from the *Quick Quack Carwash (PPT180009) Trip Generation Assessment* were utilized in this analysis (17).

The estimated operation-source emissions from the Project are summarized in Table 8. Detailed operation model outputs are presented in Appendix 1. As shown in Table 8, operational-source emissions would not exceed the applicable SCAQMD regional thresholds for emissions of any criteria pollutant. As such, operational impacts would be considered less-than-significant.

TABLE 8: MAXIMUM DAILY OPERATIONAL EMISSIONS – PROPOSED PROJECT

Source	Emissions (lbs/day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
Mobile	3.72	4.00	37.71	0.10	8.57	2.22
Area	0.12	0.00	0.15	0.00	0.00	0.00
Energy	0.00	0.04	0.03	0.00	0.00	0.00
Maximum Daily Emissions	3.84	4.04	37.89	0.10	8.57	2.23
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO
Winter						
Mobile	3.49	4.29	31.22	0.09	8.57	2.22
Area	0.09	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.04	0.03	0.00	0.00	0.00
Maximum Daily Emissions	3.58	4.33	31.25	0.09	8.57	2.23
SCAQMD Regional Thresholds	55	55	550	150	150	55
Threshold Exceeded?	NO	NO	NO	NO	NO	NO

Comparison of Proposed Project to Approved Use

Table 9 below presents a comparison of the operational criteria pollutant emissions associated with the Proposed Project and the Approved Use. As shown below, the Proposed Project would result in a slight increase for all criteria pollutants. However, it should be noted that the Project's operational criteria pollutant emissions would remain below the applicable SCAQMD significance thresholds and would thus result in a less than significant air quality impact.

It should be noted that the comparison to the Approved Use is provided for informational purposes only to offer additional context and is not used to determine the significance of Project impacts. The analysis concludes that the Proposed Project's operational emissions would not exceed applicable significance thresholds independent of any comparison to the Approved Use.

TABLE 9: COMPARISON OF MAXIMUM DAILY OPERATIONAL EMISSIONS

Source	Emissions (lbs/day)					
	ROG	NO_X	CO	SO_2	PM_{10}	$PM_{2.5}$
Summer						
Proposed Project	3.84	4.04	37.89	0.10	8.57	2.23
Approved Use	3.07	2.95	28.79	0.08	6.81	1.77
Net Maximum Daily Emissions	0.77	1.09	9.10	0.02	1.76	0.46
Winter						
Proposed Project	3.58	4.33	31.25	0.09	8.57	2.23
Approved Use	2.82	3.16	23.27	0.07	6.81	1.77
Net Maximum Daily Emissions	0.76	1.17	7.98	0.02	1.76	0.46

SENSITIVE RECEPTORS

The analysis makes use of methodology included in the SCAQMD *Final Localized Significance Threshold Methodology* (LST Methodology) (18). The SCAQMD has established that impacts to air quality are significant if there is a potential to contribute or cause localized exceedances of the federal and/or state ambient air quality standards (National Ambient Air Quality Standards (NAAQS)/California Ambient Air Quality Standards (CAAQS). Collectively, these are referred to as localized significance thresholds (LSTs). The SCAQMD established LSTs in response to the SCAQMD Governing Board's Environmental Justice Initiative I-4[3]. LSTs represent the maximum emissions from a project that will not cause or contribute to an exceedance of the most stringent applicable federal or state ambient air quality standard at the sensitive receptor. The SCAQMD states that lead agencies can use the LSTs as another indicator of significance in their air quality impact analyses.

The SCAQMD recommends that the nearest sensitive receptor be considered when determining the Project's potential to cause an individual or cumulatively significant impact. The nearest land use where an individual could remain for 24 consecutive hours nearest to the Project site has been used to determine localized construction and operational air quality impacts for emissions of PM_{10} and $PM_{2.5}$ (since PM_{10} and $PM_{2.5}$ thresholds are based on a 24-hour averaging time). The nearest receptor used for evaluation of localized impacts of PM_{10} and $PM_{2.5}$ is location R1, represented by the existing residence at 1044 Raven Court, approximately 35 feet (11 meters) south of the Project site.

As previously stated, and consistent with LST Methodology, the nearest industrial/commercial use to the Project site is used to determine construction and operational LST air impacts for emissions of NO_X and CO as the averaging periods for these pollutants are shorter (8 hours or less) and it is reasonable to assume that an individual could be present at these sites for periods of one to 8 hours. The nearest receptor used for evaluation of localized impacts of NO_X and CO is location R3, represented by the existing 7-11 Gas Station at 1020 Cherry Valley Boulevard, approximately 30 feet (9 meters) north of the Project site.

It should be noted that the *LST Methodology* explicitly states that "*It is possible that a project may have receptors closer than 25 meters. Projects with boundaries located closer than 25 meters to the nearest receptor should use the LSTs for receptors located at 25 meters* (18)." As such, for evaluation of localized PM_{10}, $PM_{2.5}$, NO_X, and CO, a 25-meter distance will be used.

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

EXHIBIT 3: RECEPTOR LOCATIONS



LEGEND:

Site Boundary Receptor Locations Distance from receptor to Project site boundary (in feet)

Localized Construction Emissions

Table 10 identifies the localized impacts at the nearest receptor location in the vicinity of the Project. Outputs from the model runs for construction LSTs are provided in Appendix 1. For analytical purposes, emissions associated with peak site preparation and grading activities are considered for purposes of LSTs since these phases represent the maximum localized emissions that would occur. Any other construction phases of development that overlap would result in lesser emissions and consequently lesser impacts than what is disclosed herein. As shown in Table 10, emissions resulting from the construction will not exceed the numerical thresholds of significance established by the SCAQMD for any criteria pollutant. Thus, a less than significant impact would occur for localized Project-related construction-source emissions and no mitigation is required.

Table 10: Project Localized Construction Impacts

On-Site Emissions	Emissions (lbs/day)			
	NO_X	CO	PM_{10}	$PM_{2.5}$
Site Preparation				
Maximum Daily Emissions	13.44	13.15	2.66	1.53
SCAQMD Localized Threshold	126	1,271	8	5
Threshold Exceeded?	NO	NO	NO	NO
Grading				
Maximum Daily Emissions	15.84	15.61	2.97	1.70
SCAQMD Localized Threshold	126	1,271	8	5
Threshold Exceeded?	NO	NO	NO	NO

Localized Operational Emissions

The Project proposes to develop the vacant parcel with a 3,366 square foot single-tunnel, automated car wash. According to SCAQMD LST methodology, LSTs would apply to the operational phase of a proposed project, if the project includes stationary sources, or attracts mobile sources that may spend long periods queuing and idling at the site (e.g., transfer facilities and warehouse buildings). The proposed project does not include such uses, and thus, due to the lack of significant stationary source emissions, no LST analysis is needed for operations.

AIR QUALITY IMPACTS – CONSISTENCY WITH THRESHOLD NO. 1

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

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

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

In December 2022, the SCAQMD released the Final 2022 AQMP (2022 AQMP). The 2022 AQMP continues to evaluate current integrated strategies and control measures to meet the CAAQS, as well as explore new and innovative methods to reach its goals. Some of these approaches include utilizing incentive programs, recognizing existing co-benefit programs from other sectors, and developing a strategy with fair-share reductions at the federal, state, and local levels (19). Similar to the 2016 AQMP, the 2022 AQMP incorporates scientific and technological information and planning assumptions, including the 2020-2045 RTP/SCS, a planning document that supports the integration of land use and transportation to help the region meet the federal CAA requirements (20). The Project's consistency with the AQMP will be determined using the 2022 AQMP as discussed below.

SCAG adopted the 2020-*2045 Regional Transportation Plan/Sustainable Communities Strategy* (2020-2045 RTP/SCS), a planning document that supports the integration of land use and transportation to help the region meet the federal metropolitan planning organization (MPO) requirements under the Sustainable communities and Climate Protection Act. The proposed Project would be developed in accordance with all applicable rules and regulations contained in those plans. It should be noted that although the 2024-2050 RTP was released after approval of the 2022 AQMP, the 2022 AQMP is reliant in part upon the general plan land use designations.

Criteria for determining consistency with the AQMP are defined in Chapter 12, Section 12.2 and Section 12.3 of the 1993 CEQA Handbook (21). These indicators are discussed below.

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

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

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

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

The Project will not exceed the assumptions in the AQMP based on the years of Project build-out phase.

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

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

The City of Calimesa General Plan designates the Project site within the Summerwind Ranch Specifc Plan as "Commercial (TC-8)" land uses and zoning uses (22).

The Project proposes to develop the vacant parcel with a 3,366 square foot single-tunnel, automated car wash. The proposed uses by the Project are permitted and no General Plan Land Use Amendment or Zone Change would be required to implement the Project. Since the Project's proposed land and zoning use is consistent with the General Plan, the Project on an individual basis does not have an impact and would not conflict with the goals and objectives of the AQMP. Furthermore, the Project, as evaluated herein would not exceed the regional or localized air quality significance thresholds.

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

AIR QUALITY IMPACTS – CONSISTENCY WITH THRESHOLD NO. 2

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

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

The SCAQMD has published a report on how to address cumulative impacts from air pollution: White Paper on Potential Control Strategies to Address Cumulative Impacts from Air Pollution (23). In this report the SCAQMD clearly states (Page D-3):

> *"…the SCAQMD uses the same significance thresholds for project specific and cumulative impacts for all environmental topics analyzed in an Environmental Assessment or EIR. The only case where the significance thresholds for project specific and cumulative impacts differ is the Hazard Index (HI) significance threshold for TAC emissions. The project specific (project increment) significance threshold is HI > 1.0 while the cumulative (facility-wide) is HI > 3.0. It should be noted that the HI is only one of three TAC emission significance thresholds considered (when applicable) in a CEQA analysis. The other two are the maximum individual cancer risk (MICR) and the cancer burden, both of which use the same significance thresholds (MICR of 10 in 1 million and cancer burden of 0.5) for project specific and cumulative impacts.*
>
> *Projects that exceed the project-specific significance thresholds are considered by the SCAQMD to be cumulatively considerable. This is the reason project-specific and cumulative significance thresholds are the same. Conversely, projects that do not exceed the project-specific thresholds are generally not considered to be cumulatively significant."*

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

Construction Impacts

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

Operational Impacts

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

AIR QUALITY IMPACTS – CONSISTENCY WITH THRESHOLD NO. 3

Would the expose sensitive receptors to substantial pollutant concentrations?

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

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

CO "Hot Spot" Analysis

A CO hotspot is defined as a localized concentration of carbon monoxide exceeding the state one-hour standard of 20 ppm or the eight-hour standard of 9 ppm. At the time the most recent CEQA Air Quality Handbook (1993) was published by SCAQMD, the air basin was designated as non-attainment, requiring projects to perform hotspot analyses to ensure they did not worsen the existing conditions. Over the last two decades, background CO concentrations have been significantly reduced due to regulatory controls on tailpipe emissions, which have culminated in the air basin achieving attainment status for CO.

The 2003 AQMP's findings underscore that CO hotspots are highly unlikely due to the reduced background concentrations and the effectiveness of California's air quality management strategies. The substantial reduction in CO levels from the vehicle fleet and the state's attainment status for CO further diminish the need for detailed microscale hotspot analyses, reinforcing that existing monitoring and regulatory frameworks adequately address potential air quality concerns.

As summarized in the 2003 AQMP, even at one of the busiest intersections at that time, only 0.7 ppm of CO is attributable to vehicular traffic and the remaining 7.7 ppm were due to ambient background conditions. Within the Project vicinity, the background air quality 1-hour and 8-hour concentrations are well below the applicable AAQS. As such, Project-related traffic at any intersections within the air basin would not cause or contribute to a CO hotspot since the background concentrations are low and any contribution from project traffic would be negligible. The project would not significantly contribute to the formation of a CO hotspot.

AIR QUALITY IMPACTS – CONSISTENCY WITH THRESHOLD NO. 4

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

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

- Agricultural uses (livestock and farming)
- Wastewater treatment plants
- Food processing plants
- Chemical plants
- Composting operations
- Refineries
- Landfills
- Dairies
- Fiberglass molding facilities

The Project does not contain land uses typically associated with emitting objectionable odors. Potential odor sources associated with the proposed Project may result from construction equipment exhaust and the application of asphalt and architectural coatings during construction activities and the temporary storage of typical solid waste (refuse) associated with the proposed Project's (long-term operational) uses. Standard construction requirements would minimize odor impacts from construction. The construction odor emissions would be temporary, short-term, and intermittent in nature and would cease upon completion of the respective phase of construction and is thus considered less than significant. It is expected that Project-generated refuse would be stored in covered containers and removed at regular intervals in compliance with the solid waste regulations. The proposed Project would also be required to comply with SCAQMD Rule 402 to prevent occurrences of public nuisances. Therefore, odors associated with the proposed Project construction and operations would be less than significant and no mitigation is required (24).

CONCLUSION

In summary, results of the assessment indicate that the Project would result in a less than significant impact with respect to air quality.

If you have any questions, please contact me directly at hqureshi@urbanxroads.com.

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APPENDIX 1:

CALEEMOD PROPOSED PROJECT EMISSIONS MODEL OUTPUTS

17009 - Quick Quack (Proposed) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	17009 - Quick Quack (Proposed)
Construction Start Date	10/1/2026
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	25.8000
Location	33.965077, -117.037687
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.41

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Automobile Care Center	3.36600	1000sqft	0.07727	3,366.00	26,971.0	—	—	—

Parking Lot	29.0000	Space	0.26100	0.00000	0.00000	—	—	—
Parking Lot	1.36000	Acre	1.36000	0.00000	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.14011	5.77998	15.5276	21.0389	0.03566	0.52979	0.18500	0.71479	0.48742	0.04356	0.53099	—	3,642.33	3,642.33	0.14203	0.03688	0.62150	3,657.50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.17997	1.83399	15.8839	16.1539	0.02441	0.84888	2.24791	3.09680	0.78097	0.95084	1.73181	—	2,771.30	2,771.30	0.10926	0.02641	0.01213	2,781.92
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.64173	0.55276	3.80908	4.65623	0.00912	0.12471	0.03903	0.13628	0.11474	0.01624	0.11753	—	879.087	879.087	0.03530	0.00830	0.02069	882.464
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.11711	0.10088	0.69516	0.84976	0.00166	0.02276	0.00712	0.02487	0.02094	0.00296	0.02145	—	145.543	145.543	0.00584	0.00137	0.00342	146.102

2.2. Construction Emissions by Year

2.2.1. Total Construction Emissions by Year, Unmitigated

Includes both onsite and offsite emissions.

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.14011	5.77998	15.5276	21.0389	0.03566	0.52979	0.18500	0.71479	0.48742	0.04356	0.53099	—	3,642.33	3,642.33	0.14203	0.03688	0.62150	3,657.50
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.17997	1.83399	15.8839	16.1539	0.02441	0.84888	2.24791	3.09680	0.78097	0.95084	1.73181	—	2,771.30	2,771.30	0.10926	0.02641	0.01213	2,781.92
2027	1.32967	1.10759	9.49891	11.4668	0.02285	0.30939	0.01880	0.32819	0.28466	0.00460	0.28927	—	2,188.85	2,188.85	0.08814	0.02047	0.00225	2,197.16
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.26196	0.21847	1.87241	2.14656	0.00414	0.06977	0.03903	0.10880	0.06419	0.01624	0.08044	—	403.435	403.435	0.01621	0.00380	0.00982	404.983
2027	0.64173	0.55276	3.80908	4.65623	0.00912	0.12471	0.01157	0.13628	0.11474	0.00279	0.11753	—	879.087	879.087	0.03530	0.00830	0.02069	882.464
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04781	0.03987	0.34171	0.39175	0.00076	0.01273	0.00712	0.01986	0.01172	0.00296	0.01468	—	66.7933	66.7933	0.00268	0.00063	0.00163	67.0495
2027	0.11711	0.10088	0.69516	0.84976	0.00166	0.02276	0.00211	0.02487	0.02094	0.00051	0.02145	—	145.543	145.543	0.00584	0.00137	0.00342	146.102

2.2.2. Onsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	6.07719	5.72429	15.4626	20.1173	0.03553	0.52954	0.00000	0.52954	0.48718	0.00000	0.48718	—	3,439.34	3,439.34	0.13951	0.02790	0.00000	3,451.14
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	2.13511	1.79408	15.8402	15.6093	0.02441	0.84888	2.11720	2.96609	0.78097	0.92020	1.70118	—	2,644.49	2,644.49	0.10727	0.02145	0.00000	2,653.57
2027	1.32433	1.10319	9.47687	11.4072	0.02273	0.30915	0.00000	0.30915	0.28441	0.00000	0.28441	—	2,159.13	2,159.13	0.08758	0.01752	0.00000	2,166.54
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2026	0.26038	0.21712	1.86779	2.12698	0.00412	0.06973	0.03405	0.10378	0.06415	0.01505	0.07920	—	396.495	396.495	0.01608	0.00322	0.00000	397.856
2027	0.63818	0.54975	3.79896	4.61401	0.00907	0.12461	0.00000	0.12461	0.11465	0.00000	0.11465	—	863.232	863.232	0.03502	0.00700	0.00000	866.195
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04752	0.03962	0.34087	0.38817	0.00075	0.01273	0.00621	0.01894	0.01171	0.00275	0.01445	—	65.6443	65.6443	0.00266	0.00053	0.00000	65.8696
2027	0.11647	0.10033	0.69331	0.84206	0.00166	0.02274	0.00000	0.02274	0.02092	0.00000	0.02092	—	142.918	142.918	0.00580	0.00116	0.00000	143.408

2.2.3. Offsite Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.06292	0.05568	0.06494	0.92153	0.00012	0.00025	0.18500	0.18525	0.00025	0.04356	0.04381	—	202.996	202.996	0.00251	0.00898	0.62150	206.356
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.04486	0.03990	0.04376	0.54454	0.00012	0.00025	0.13071	0.13071	0.00025	0.03064	0.03064	—	126.813	126.813	0.00198	0.00496	0.01213	128.353
2027	0.00534	0.00440	0.02204	0.05959	0.00012	0.00025	0.01880	0.01905	0.00025	0.00460	0.00485	—	29.7245	29.7245	0.00056	0.00295	0.00225	30.6207
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.00158	0.00135	0.00462	0.01959	0.00002	0.00004	0.00498	0.00502	0.00004	0.00120	0.00124	—	6.93967	6.93967	0.00013	0.00058	0.00982	7.12680
2027	0.00355	0.00301	0.01012	0.04222	0.00005	0.00010	0.01157	0.01167	0.00010	0.00279	0.00288	—	15.8552	15.8552	0.00028	0.00130	0.02069	16.2696
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.00029	0.00025	0.00084	0.00357	< 0.000005	0.00001	0.00091	0.00092	0.00001	0.00022	0.00023	—	1.14894	1.14894	0.00002	0.00010	0.00163	1.17992
2027	0.00065	0.00055	0.00185	0.00770	0.00001	0.00002	0.00211	0.00213	0.00002	0.00051	0.00053	—	2.62500	2.62500	0.00005	0.00021	0.00342	2.69362

2.3. Operations Emissions Compared Against Thresholds

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.22598	3.83564	4.04340	37.8857	0.09737	0.07373	8.49624	8.56997	0.06939	2.15677	2.22617	15.5940	10,101.6	10,117.2	1.95133	0.44294	34.6718	10,332.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.96798	3.57960	4.33295	31.2544	0.09138	0.07351	8.49624	8.56975	0.06923	2.15677	2.22600	15.5940	9,495.30	9,510.89	1.96190	0.45680	0.90946	9,696.97
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.96282	3.57171	4.41915	32.5422	0.09225	0.07367	8.35586	8.42953	0.06935	2.12168	2.19102	15.5940	9,583.33	9,598.92	1.96291	0.46097	14.9771	9,800.34
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72322	0.65184	0.80650	5.93895	0.01684	0.01344	1.52494	1.53839	0.01266	0.38721	0.39986	2.58176	1,586.63	1,589.21	0.32498	0.07632	2.47963	1,622.56

2.4. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.10415	3.71796	4.00334	37.7067	0.09713	0.07052	8.49624	8.56676	0.06625	2.15677	2.22302	—	9,934.09	9,934.09	0.35469	0.42035	34.6611	10,102.9
Area	0.11756	0.11555	0.00123	0.14639	0.00001	0.00026	—	0.00026	0.00020	—	0.00020	—	0.60200	0.60200	0.00003	0.00001	—	0.60417
Energy	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	135.551	135.551	0.01260	0.00112	—	136.200
Water	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Waste	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Total	4.22598	3.83564	4.04340	37.8857	0.09737	0.07373	8.49624	8.56997	0.06939	2.15677	2.22617	15.5940	10,101.6	10,117.2	1.95133	0.44294	34.6718	10,332.6
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	3.87219	3.48594	4.29411	31.2218	0.09114	0.07056	8.49624	8.56679	0.06628	2.15677	2.22305	—	9,328.40	9,328.40	0.36529	0.43421	0.89873	9,467.83
Area	0.09152	0.09152	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	135.551	135.551	0.01260	0.00112	—	136.200
Water	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Waste	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Total	3.96798	3.57960	4.33295	31.2544	0.09138	0.07351	8.49624	8.56975	0.06923	2.15677	2.22600	15.5940	9,495.30	9,510.89	1.96190	0.45680	0.90946	9,696.97
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	3.84920	3.46159	4.37948	32.4093	0.09201	0.07054	8.35586	8.42640	0.06626	2.12168	2.18794	—	9,416.02	9,416.02	0.36628	0.43837	14.9664	9,570.78
Area	0.10935	0.10798	0.00084	0.10026	0.00001	0.00018	—	0.00018	0.00013	—	0.00013	—	0.41233	0.41233	0.00002	< 0.000005	—	0.41381
Energy	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	135.551	135.551	0.01260	0.00112	—	136.200
Water	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Waste	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Total	3.96282	3.57171	4.41915	32.5422	0.09225	0.07367	8.35586	8.42953	0.06935	2.12168	2.19102	15.5940	9,583.33	9,598.92	1.96291	0.46097	14.9771	9,800.34
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.70248	0.63174	0.79925	5.91470	0.01679	0.01287	1.52494	1.53782	0.01209	0.38721	0.39930	—	1,558.93	1,558.93	0.06064	0.07258	2.47786	1,584.55
Area	0.01996	0.01971	0.00015	0.01830	< 0.000005	0.00003	—	0.00003	0.00002	—	0.00002	—	0.06827	0.06827	< 0.000005	< 0.000005	—	0.06851
Energy	0.00078	0.00039	0.00709	0.00595	0.00004	0.00054	—	0.00054	0.00054	—	0.00054	—	22.4421	22.4421	0.00209	0.00019	—	22.5494
Water	—	—	—	—	—	—	—	—	—	—	—	1.43446	5.18969	6.62415	0.14758	0.00355	—	11.3730
Waste	—	—	—	—	—	—	—	—	—	—	—	1.14730	0.00000	1.14730	0.11467	0.00000	—	4.01400
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00178	0.00178
Total	0.72322	0.65184	0.80650	5.93895	0.01684	0.01344	1.52494	1.53839	0.01266	0.38721	0.39986	2.58176	1,586.63	1,589.21	0.32498	0.07632	2.47963	1,622.56

3. Construction Emissions Details

3.1. Site Preparation (2026)

3.1.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.81036	1.52120	13.4444	13.1519	0.02119	0.68347	—	0.68347	0.62879	—	0.62879	—	2,295.70	2,295.70	0.09312	0.01862	—	2,303.58
Dust From Material Movement	—	—	—	—	—	—	1.97934	1.97934	—	0.90532	0.90532	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00992	0.00834	0.07367	0.07207	0.00012	0.00375	—	0.00375	0.00345	—	0.00345	—	12.5792	12.5792	0.00051	0.00010	—	12.6224
Dust From Material Movement	—	—	—	—	—	—	0.01085	0.01085	—	0.00496	0.00496	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.00181	0.00152	0.01344	0.01315	0.00002	0.00068	—	0.00068	0.00063	—	0.00063	—	2.08263	2.08263	0.00008	0.00002	—	2.08978
Dust From Material Movement	—	—	—	—	—	—	0.00198	0.00198	—	0.00091	0.00091	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.1.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03365	0.02993	0.03282	0.40841	0.00000	0.00000	0.09803	0.09803	0.00000	0.02298	0.02298	—	95.1095	95.1095	0.00149	0.00372	0.00910	96.2644
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00018	0.00016	0.00020	0.00234	0.00000	0.00000	0.00053	0.00053	0.00000	0.00012	0.00012	—	0.52776	0.52776	0.00001	0.00002	0.00083	0.53486
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00003	0.00004	0.00043	0.00000	0.00000	0.00010	0.00010	0.00000	0.00002	0.00002	—	0.08738	0.08738	< 0.000005	< 0.000005	0.00014	0.08855
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2. Grading (2026)

3.2.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.13511	1.79408	15.8402	15.6093	0.02441	0.84888	—	0.84888	0.78097	—	0.78097	—	2,644.49	2,644.49	0.10727	0.02145	—	2,653.57
Dust From Material Movement	—	—	—	—	—	—	2.11720	2.11720	—	0.92020	0.92020	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02340	0.01966	0.17359	0.17106	0.00027	0.00930	—	0.00930	0.00856	—	0.00856	—	28.9807	28.9807	0.00118	0.00024	—	29.0802
Dust From Material Movement	—	—	—	—	—	—	0.02320	0.02320	—	0.01008	0.01008	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.00427	0.00359	0.03168	0.03122	0.00005	0.00170	—	0.00170	0.00156	—	0.00156	—	4.79809	4.79809	0.00019	0.00004	—	4.81456
Dust From Material Movement	—	—	—	—	—	—	0.00423	0.00423	—	0.00184	0.00184	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.2.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04486	0.03990	0.04376	0.54454	0.00000	0.00000	0.13071	0.13071	0.00000	0.03064	0.03064	—	126.813	126.813	0.00198	0.00496	0.01213	128.353
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00049	0.00043	0.00052	0.00624	0.00000	0.00000	0.00141	0.00141	0.00000	0.00033	0.00033	—	1.40735	1.40735	0.00002	0.00005	0.00221	1.42630
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00009	0.00008	0.00010	0.00114	0.00000	0.00000	0.00026	0.00026	0.00000	0.00006	0.00006	—	0.23300	0.23300	< 0.000005	0.00001	0.00037	0.23614
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3. Building Construction (2026)

3.3.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.38126	1.15048	9.85821	11.4601	0.02273	0.34482	—	0.34482	0.31724	—	0.31724	—	2,159.19	2,159.19	0.08759	0.01752	—	2,166.60
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22706	0.18912	1.62053	1.88385	0.00374	0.05668	—	0.05668	0.05215	—	0.05215	—	354.935	354.935	0.01440	0.00288	—	356.153
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04144	0.03451	0.29575	0.34380	0.00068	0.01034	—	0.01034	0.00952	—	0.00952	—	58.7636	58.7636	0.00238	0.00048	—	58.9653
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.3.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00483	0.00430	0.00471	0.05865	0.00000	0.00000	0.01408	0.01408	0.00000	0.00330	0.00330	—	13.6592	13.6592	0.00021	0.00053	0.00131	13.8251
Vendor	0.00074	0.00033	0.01850	0.00565	0.00012	0.00025	0.00472	0.00497	0.00025	0.00130	0.00155	—	16.6190	16.6190	0.00037	0.00257	0.00118	17.3942
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00079	0.00070	0.00085	0.01009	0.00000	0.00000	0.00228	0.00228	0.00000	0.00053	0.00053	—	2.27383	2.27383	0.00004	0.00009	0.00357	2.30445
Vendor	0.00012	0.00005	0.00306	0.00092	0.00002	0.00004	0.00077	0.00081	0.00004	0.00021	0.00025	—	2.73073	2.73073	0.00006	0.00042	0.00321	2.86117
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00014	0.00013	0.00015	0.00184	0.00000	0.00000	0.00042	0.00042	0.00000	0.00010	0.00010	—	0.37646	0.37646	0.00001	0.00001	0.00059	0.38153
Vendor	0.00002	0.00001	0.00056	0.00017	< 0.000005	0.00001	0.00014	0.00015	0.00001	0.00004	0.00005	—	0.45210	0.45210	0.00001	0.00007	0.00053	0.47370
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4. Building Construction (2027)

3.4.1. Onsite - Unmitigated

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

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

Off-Road Equipm	1.32433	1.10319	9.47687	11.4072	0.02273	0.30915	—	0.30915	0.28441	—	0.28441	—	2,159.13	2,159.13	0.08758	0.01752	—	2,166.54
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.32433	1.10319	9.47687	11.4072	0.02273	0.30915	—	0.30915	0.28441	—	0.28441	—	2,159.13	2,159.13	0.08758	0.01752	—	2,166.54
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50796	0.42314	3.63496	4.37538	0.00872	0.11858	—	0.11858	0.10909	—	0.10909	—	828.158	828.158	0.03359	0.00672	—	831.000
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09270	0.07722	0.66338	0.79851	0.00159	0.02164	—	0.02164	0.01991	—	0.01991	—	137.111	137.111	0.00556	0.00111	—	137.582
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.4.2. Offsite - Unmitigated

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

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

Worker	0.00486	0.00432	0.00374	0.07155	0.00000	0.00000	0.01408	0.01408	0.00000	0.00330	0.00330	—	14.5796	14.5796	0.00017	0.00051	0.04529	14.7812
Vendor	0.00074	0.00034	0.01705	0.00535	0.00012	0.00025	0.00472	0.00497	0.00025	0.00130	0.00155	—	16.3031	16.3031	0.00038	0.00244	0.04151	17.0820
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00462	0.00408	0.00423	0.05408	0.00000	0.00000	0.01408	0.01408	0.00000	0.00330	0.00330	—	13.4090	13.4090	0.00019	0.00051	0.00117	13.5670
Vendor	0.00072	0.00032	0.01782	0.00551	0.00012	0.00025	0.00472	0.00497	0.00025	0.00130	0.00155	—	16.3155	16.3155	0.00037	0.00244	0.00108	17.0537
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00177	0.00157	0.00179	0.02177	0.00000	0.00000	0.00531	0.00531	0.00000	0.00124	0.00124	—	5.20824	5.20824	0.00007	0.00020	0.00749	5.27591
Vendor	0.00028	0.00013	0.00682	0.00209	0.00005	0.00010	0.00179	0.00188	0.00010	0.00049	0.00059	—	6.25526	6.25526	0.00015	0.00094	0.00687	6.54495
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00032	0.00029	0.00033	0.00397	0.00000	0.00000	0.00097	0.00097	0.00000	0.00023	0.00023	—	0.86228	0.86228	0.00001	0.00003	0.00124	0.87349
Vendor	0.00005	0.00002	0.00124	0.00038	0.00001	0.00002	0.00033	0.00034	0.00002	0.00009	0.00011	—	1.03563	1.03563	0.00002	0.00016	0.00114	1.08359
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5. Paving (2027)

3.5.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62044	0.52043	4.87754	7.20959	0.01050	0.19500	—	0.19500	0.17940	—	0.17940	—	1,102.20	1,102.20	0.04471	0.00894	—	1,105.98

Paving	0.42470	0.42470	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01700	0.01426	0.13363	0.19752	0.00029	0.00534	—	0.00534	0.00491	—	0.00491	—	30.1972	30.1972	0.00122	0.00024	—	30.3008
Paving	0.01164	0.01164	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00310	0.00260	0.02439	0.03605	0.00005	0.00097	—	0.00097	0.00090	—	0.00090	—	4.99948	4.99948	0.00020	0.00004	—	5.01664
Paving	0.00212	0.00212	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.5.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05636	0.05016	0.04340	0.83032	0.00000	0.00000	0.16339	0.16339	0.00000	0.03830	0.03830	—	169.197	169.197	0.00193	0.00592	0.52564	171.537
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00147	0.00130	0.00148	0.01805	0.00000	0.00000	0.00440	0.00440	0.00000	0.00103	0.00103	—	4.31727	4.31727	0.00006	0.00016	0.00621	4.37336
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00027	0.00024	0.00027	0.00329	0.00000	0.00000	0.00080	0.00080	0.00000	0.00019	0.00019	—	0.71477	0.71477	0.00001	0.00003	0.00103	0.72406
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6. Architectural Coating (2027)

3.6.1. Onsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18287	0.15113	1.10822	1.50052	0.00230	0.02540	—	0.02540	0.02337	—	0.02337	—	178.017	178.017	0.00722	0.00144	—	178.628
Architectural Coatings	3.52484	3.52484	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00501	0.00414	0.03036	0.04111	0.00006	0.00070	—	0.00070	0.00064	—	0.00064	—	4.87718	4.87718	0.00020	0.00004	—	4.89391
Architectural Coatings	0.09657	0.09657	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00091	0.00076	0.00554	0.00750	0.00001	0.00013	—	0.00013	0.00012	—	0.00012	—	0.80747	0.80747	0.00003	0.00001	—	0.81024
Architectural Coatings	0.01762	0.01762	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

3.6.2. Offsite - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00097	0.00086	0.00075	0.01431	0.00000	0.00000	0.00282	0.00282	0.00000	0.00066	0.00066	—	2.91593	2.91593	0.00003	0.00010	0.00906	2.95625
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00003	0.00002	0.00003	0.00031	0.00000	0.00000	0.00008	0.00008	0.00000	0.00002	0.00002	—	0.07440	0.07440	< 0.000005	< 0.000005	0.00011	0.07537
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.000005	< 0.000005	< 0.000005	0.00006	0.00000	0.00000	0.00001	0.00001	0.00000	< 0.000005	< 0.000005	—	0.01232	0.01232	< 0.000005	< 0.000005	0.00002	0.01248
Vendor	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Hauling	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	4.10415	3.71796	4.00334	37.7067	0.09713	0.07052	8.49624	8.56676	0.06625	2.15677	2.22302	—	9,934.09	9,934.09	0.35469	0.42035	34.6611	10,102.9
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	4.10415	3.71796	4.00334	37.7067	0.09713	0.07052	8.49624	8.56676	0.06625	2.15677	2.22302	—	9,934.09	9,934.09	0.35469	0.42035	34.6611	10,102.9

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	3.87219	3.48594	4.29411	31.2218	0.09114	0.07056	8.49624	8.56679	0.06628	2.15677	2.22305	—	9,328.40	9,328.40	0.36529	0.43421	0.89873	9,467.83
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	3.87219	3.48594	4.29411	31.2218	0.09114	0.07056	8.49624	8.56679	0.06628	2.15677	2.22305	—	9,328.40	9,328.40	0.36529	0.43421	0.89873	9,467.83
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.70248	0.63174	0.79925	5.91470	0.01679	0.01287	1.52494	1.53782	0.01209	0.38721	0.39930	—	1,558.93	1,558.93	0.06064	0.07258	2.47786	1,584.55
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.70248	0.63174	0.79925	5.91470	0.01679	0.01287	1.52494	1.53782	0.01209	0.38721	0.39930	—	1,558.93	1,558.93	0.06064	0.07258	2.47786	1,584.55

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	30.5501	30.5501	0.00291	0.00035	—	30.7281
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.6684	58.6684	0.00559	0.00068	—	59.0102
Total	—	—	—	—	—	—	—	—	—	—	—	—	89.2185	89.2185	0.00850	0.00103	—	89.7383

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	30.5501	30.5501	0.00291	0.00035	—	30.7281
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.6684	58.6684	0.00559	0.00068	—	59.0102
Total	—	—	—	—	—	—	—	—	—	—	—	—	89.2185	89.2185	0.00850	0.00103	—	89.7383
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	5.05792	5.05792	0.00048	0.00006	—	5.08739
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.71322	9.71322	0.00093	0.00011	—	9.76981
Total	—	—	—	—	—	—	—	—	—	—	—	—	14.7711	14.7711	0.00141	0.00017	—	14.8572

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	46.3328	46.3328	0.00410	0.00009	—	46.4613
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	46.3328	46.3328	0.00410	0.00009	—	46.4613

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	46.3328	46.3328	0.00410	0.00009	—	46.4613
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00427	0.00214	0.03883	0.03262	0.00023	0.00295	—	0.00295	0.00295	—	0.00295	—	46.3328	46.3328	0.00410	0.00009	—	46.4613
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	0.00078	0.00039	0.00709	0.00595	0.00004	0.00054	—	0.00054	0.00054	—	0.00054	—	7.67093	7.67093	0.00068	0.00001	—	7.69220
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00078	0.00039	0.00709	0.00595	0.00004	0.00054	—	0.00054	0.00054	—	0.00054	—	7.67093	7.67093	0.00068	0.00001	—	7.69220

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07759	0.07759	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01393	0.01393	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	0.02604	0.02403	0.00123	0.14639	0.00001	0.00026	—	0.00026	0.00020	—	0.00020	—	0.60200	0.60200	0.00003	0.00001	—	0.60417
Total	0.11756	0.11555	0.00123	0.14639	0.00001	0.00026	—	0.00026	0.00020	—	0.00020	—	0.60200	0.60200	0.00003	0.00001	—	0.60417
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.07759	0.07759	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01393	0.01393	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.09152	0.09152	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.01416	0.01416	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00254	0.00254	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.00325	0.00300	0.00015	0.01830	< 0.000005	0.00003	—	0.00003	0.00002	—	0.00002	—	0.06827	0.06827	< 0.000005	< 0.000005	—	0.06851
Total	0.01996	0.01971	0.00015	0.01830	< 0.000005	0.00003	—	0.00003	0.00002	—	0.00002	—	0.06827	0.06827	< 0.000005	< 0.000005	—	0.06851

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	8.66422	31.3460	40.0102	0.89140	0.02147	—	68.6936
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	1.43446	5.18969	6.62415	0.14758	0.00355	—	11.3730
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	1.43446	5.18969	6.62415	0.14758	0.00355	—	11.3730

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	6.92974	0.00000	6.92974	0.69260	0.00000	—	24.2448
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	1.14730	0.00000	1.14730	0.11467	0.00000	—	4.01400
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	1.14730	0.00000	1.14730	0.11467	0.00000	—	4.01400

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01073	0.01073
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Automobile Care Center	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00178	0.00178
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00178	0.00178

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Site Preparation	Site Preparation	10/1/2026	10/2/2026	5.00000	2.00000	—
Grading	Grading	10/5/2026	10/8/2026	5.00000	4.00000	—
Building Construction	Building Construction	10/9/2026	7/15/2027	5.00000	200.000	—
Paving	Paving	7/2/2027	7/15/2027	5.00000	10.00000	—
Architectural Coating	Architectural Coating	7/2/2027	7/15/2027	5.00000	10.00000	—

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	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Site Preparation	Crawler Tractors	Diesel	Average	1.000000	8.00000	87.0000	0.43000
Grading	Graders	Diesel	Average	1.000000	8.00000	148.000	0.41000
Grading	Rubber Tired Dozers	Diesel	Average	1.000000	8.00000	367.000	0.40000
Grading	Crawler Tractors	Diesel	Average	2.00000	8.00000	87.0000	0.43000
Building Construction	Cranes	Diesel	Average	1.000000	8.00000	367.000	0.29000
Building Construction	Forklifts	Diesel	Average	1.000000	8.00000	82.0000	0.20000
Building Construction	Generator Sets	Diesel	Average	1.000000	8.00000	14.0000	0.74000
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Building Construction	Welders	Diesel	Average	3.00000	8.00000	46.0000	0.45000
Paving	Cement and Mortar Mixers	Diesel	Average	1.000000	8.00000	10.00000	0.56000
Paving	Pavers	Diesel	Average	1.000000	8.00000	81.0000	0.42000
Paving	Paving Equipment	Diesel	Average	1.000000	8.00000	89.0000	0.36000
Paving	Rollers	Diesel	Average	1.000000	8.00000	36.0000	0.38000
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.000000	8.00000	84.0000	0.37000
Architectural Coating	Air Compressors	Diesel	Average	1.000000	8.00000	37.0000	0.48000

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix

Site Preparation	Worker	7.50000	18.5000	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2000	HHDT,MHDT
Site Preparation	Hauling	0.00000	20.0000	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	10.00000	18.5000	LDA,LDT1,LDT2
Grading	Vendor	—	10.2000	HHDT,MHDT
Grading	Hauling	0.00000	20.0000	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	1.07712	18.5000	LDA,LDT1,LDT2
Building Construction	Vendor	0.55169	10.2000	HHDT,MHDT
Building Construction	Hauling	0.00000	20.0000	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	12.5000	18.5000	LDA,LDT1,LDT2
Paving	Vendor	—	10.2000	HHDT,MHDT
Paving	Hauling	0.00000	20.0000	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	0.21542	18.5000	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2000	HHDT,MHDT
Architectural Coating	Hauling	0.00000	20.0000	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	0.00000	0.00000	5,049.00	1,683.00	4,236.65

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	—	—	3.00000	0.00000	0.00000
Grading	—	—	8.00000	0.00000	0.00000
Paving	0.00000	0.00000	0.00000	0.00000	1.62100

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

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Automobile Care Center	0.00000	0%
Paving	Parking Lot	0.26100	100%
Paving	Parking Lot	1.36000	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00000	346.196	0.03300	0.00400
2027	0.00000	346.196	0.03300	0.00400

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
Automobile Care Center	853.315	853.315	853.315	311,460	11,991.4	11,991.4	11,991.4	4,376,855
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Automobile Care Center	Wood Fireplaces	0	0
Automobile Care Center	Gas Fireplaces	0	0
Automobile Care Center	Propane Fireplaces	0	0
Automobile Care Center	Electric Fireplaces	0	0
Automobile Care Center	No Fireplaces	0	0
Automobile Care Center	Conventional Wood Stoves	0	0
Automobile Care Center	Catalytic Wood Stoves	0	0
Automobile Care Center	Non-Catalytic Wood Stoves	0	0
Automobile Care Center	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0

Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0

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)
0.00000	0.00000	5,049.00	1,683.00	4,236.65

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)

Automobile Care Center	32,209.5	346.196	0.0330	0.0040	144,571
Parking Lot	9,959.38	346.196	0.0330	0.0040	0.00000
Parking Lot	51,895.6	346.196	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Automobile Care Center	4,521,477	427,644
Parking Lot	0.00000	0.00000
Parking Lot	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Automobile Care Center	12.8581	0.00000
Parking Lot	0.00000	0.00000
Parking Lot	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Automobile Care Center	Household refrigerators and/or freezers	User Defined	150.000	0.45455	0.60000	0.00000	1.000000
Automobile Care Center	Other commercial A/C and heat pumps	User Defined	750.000	0.00230	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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	27.8300	annual days of extreme heat
Extreme Precipitation	5.10000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	21.4300	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	99.0666
AQ-PM	47.0566

AQ-DPM	72.6322
Drinking Water	39.8277
Lead Risk Housing	0.06301
Pesticides	0.00000
Toxic Releases	42.5231
Traffic	98.0000
Effect Indicators	—
CleanUp Sites	0.00000
Groundwater	0.00000
Haz Waste Facilities/Generators	0.00000
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	52.0065
Cardio-vascular	88.5219
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	30.8656
Housing	49.0241
Linguistic	—
Poverty	44.8744
Unemployment	—

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	—

Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—
Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	0.0
Asthma ER Admissions	49.4

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	0.0
Cognitively Disabled	2.2
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	0.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	99.4
Elderly	0.2
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	98.2

Climate Change Adaptive Capacity	—
Impervious Surface Cover	82.6
Traffic Density	0.0
Traffic Access	23.0
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0000
Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Construction: Construction Phases	Building Construction, Paving, and Architectural Coating overlap to present a conservative analysis
Construction: Off-Road Equipment	T/L/B replaced with Crawler Tractor to accurately calculate disturbance for Site Preparation and Grading phases. Standard 8 hours work days
Construction: Architectural Coatings	SCAQMD Rule 1113
Operations: Vehicle Data	Trip characteristics based on Trip Generation Internal Capture accounted for
Operations: Water and Waste Water	The project includes the construction and operation of a 3,366 square foot automated car wash. Water usage for the car wash has been estimated based on the Water Use, Evaporation and Carryout Conveyor Car Washes (International Carwash Association, 2018). This study assumes that the average conveyor car wash utilizes 30 gallons of freshwater per vehicle. Per the Trip Generation, the Automated Car wash use is anticipated to generate 768 daily trips per day. On this basis, water usage for the proposed automated car wash is estimated at 4,204,800 gallons per year. The water usage estimates for the car wash were added to the default water usage estimates in CalEEMod for a total of 4,521,477 gallons per year.
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Site Preparation	Site Preparation	Start Date	10/30/2026	10/1/2026
Site Preparation	Site Preparation	End Date	11/1/2026	10/2/2026
Grading	Grading	Start Date	11/2/2026	10/5/2026
Grading	Grading	End Date	11/7/2026	10/8/2026
Building Construction	Building Construction	Start Date	11/8/2026	10/9/2026

Building Construction	Building Construction	End Date	8/15/2027	7/15/2027
Paving	Paving	Start Date	8/16/2027	7/2/2027
Paving	Paving	End Date	8/30/2027	7/15/2027
Architectural Coating	Architectural Coating	Start Date	8/31/2027	7/2/2027
Architectural Coating	Architectural Coating	End Date	9/14/2027	7/15/2027

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Site Preparation	Rubber Tired Dozers	Hours Per Day	7.00000	8.00000
Building Construction	Cranes	Hours Per Day	6.00000	8.00000
Building Construction	Forklifts	Hours Per Day	6.00000	8.00000
Building Construction	Tractors/Loaders/Backhoes	Hours Per Day	6.00000	8.00000
Paving	Cement and Mortar Mixers	Hours Per Day	6.00000	8.00000
Paving	Pavers	Hours Per Day	6.00000	8.00000
Paving	Rollers	Hours Per Day	7.00000	8.00000
Architectural Coating	Air Compressors	Hours Per Day	6.00000	8.00000

8.4.8. Architectural Coatings

Phase Name	Model Parameter	Units	Default Value	New Value
Architectural Coating	Non-Residential Interior VOC	g/L	100.0000	50.0000
Architectural Coating	Non-Residential Exterior VOC	g/L	100.0000	50.0000

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value

Automobile Care Center	Weekday Trip Rate	size/day	23.7200	253.510
Automobile Care Center	Saturday Trip Rate	size/day	23.7200	253.510
Automobile Care Center	Sunday Trip Rate	size/day	11.8800	253.510
Automobile Care Center	Weekday Primary Trip	%	53.3000	90.0000
Automobile Care Center	Weekday Divert Trip	%	11.2000	0.00000
Automobile Care Center	Weekday Pass-By Trip	%	35.5000	10.00000
Automobile Care Center	Saturday Primary Trip	%	100.0000	90.0000
Automobile Care Center	Saturday Pass-By Trip	%	0.00000	10.00000
Automobile Care Center	Sunday Primary Trip	%	100.0000	90.0000
Automobile Care Center	Sunday Pass-By Trip	%	0.00000	10.00000

8.5.4. Water and Waste Water

Land Use	Model Parameter	Units	Default Value	New Value
Automobile Care Center	Indoor Water	gal/year	316,677	4,521,477

8.5.6. Refrigerants

Land Use	Equipment Type	Model Parameter	Units	Default Value	New Value
Automobile Care Center	Household refrigerators and/or freezers	Refrigerant	—	R-134a	User Defined
Automobile Care Center	Household refrigerators and/or freezers	GWP	—	1,430.00	150.000
Automobile Care Center	Other commercial A/C and heat pumps	Refrigerant	—	R-410A	User Defined
Automobile Care Center	Other commercial A/C and heat pumps	GWP	—	2,088.00	750.000
Automobile Care Center	Other commercial A/C and heat pumps	Quantity	kg/1000sqft	0.00180	0.00230

APPENDIX 2:

CALEEMOD APPROVED EMISSIONS MODEL OUTPUTS

17009 - Quick Quack (Approved) Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	17009 - Quick Quack (Approved)
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.50000
Precipitation (days)	25.8000
Location	33.965077, -117.037687
County	Riverside-South Coast
City	Calimesa
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5624
EDFZ	11
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.41

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Pharmacy/Drugstore with Drive Thru	13.3940	1000sqft	0.30748	13,394.0	0.00000	—	—	—

Parking Lot	1.39000	Acre	1.39000	0.00000	0.00000	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.3. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.36911	3.06946	2.95200	28.7900	0.07576	0.05615	6.75249	6.80863	0.05266	1.71387	1.76653	23.5142	7,940.63	7,964.15	2.63721	0.32654	24.6713	8,152.06
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.10807	2.81692	3.15956	23.2734	0.07106	0.05513	6.75249	6.80762	0.05190	1.71387	1.76577	23.5142	7,466.89	7,490.41	2.64386	0.33688	0.68130	7,657.57
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.74506	2.55358	2.07482	15.8195	0.04156	0.03399	3.79717	3.83116	0.03189	0.96402	0.99590	23.5142	4,446.00	4,469.52	2.56695	0.21561	6.12333	4,604.06
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.50097	0.46603	0.37866	2.88705	0.00758	0.00620	0.69298	0.69919	0.00582	0.17593	0.18175	3.89305	736.086	739.979	0.42499	0.03570	1.01379	762.255

2.4. Operations Emissions by Sector, Unmitigated

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

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

Mobile	2.93308	2.64259	2.92579	28.1896	0.07560	0.05349	6.75249	6.80598	0.05026	1.71387	1.76413	—	7,732.45	7,732.45	0.26281	0.31998	24.6286	7,859.00
Area	0.43369	0.42570	0.00490	0.58252	0.00003	0.00103	—	0.00103	0.00078	—	0.00078	—	2.39547	2.39547	0.00010	0.00002	—	2.40411
Energy	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	199.700	199.700	0.01886	0.00206	—	200.786
Water	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Waste	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Total	3.36911	3.06946	2.95200	28.7900	0.07576	0.05615	6.75249	6.80863	0.05266	1.71387	1.76653	23.5142	7,940.63	7,964.15	2.63721	0.32654	24.6713	8,152.06
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.77569	2.48571	3.13825	23.2556	0.07094	0.05351	6.75249	6.80600	0.05028	1.71387	1.76415	—	7,261.10	7,261.10	0.26957	0.33034	0.63860	7,366.92
Area	0.33004	0.33004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	199.700	199.700	0.01886	0.00206	—	200.786
Water	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Waste	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Total	3.10807	2.81692	3.15956	23.2734	0.07106	0.05513	6.75249	6.80762	0.05190	1.71387	1.76577	23.5142	7,466.89	7,490.41	2.64386	0.33688	0.68130	7,657.57
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.34169	2.15686	2.05016	15.4026	0.04141	0.03166	3.79717	3.82883	0.02973	0.96402	0.99375	—	4,238.57	4,238.57	0.19259	0.20906	6.08064	4,311.76
Area	0.40103	0.39556	0.00336	0.39899	0.00002	0.00071	—	0.00071	0.00054	—	0.00054	—	1.64073	1.64073	0.00007	0.00001	—	1.64665
Energy	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	199.700	199.700	0.01886	0.00206	—	200.786
Water	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Waste	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Total	2.74506	2.55358	2.07482	15.8195	0.04156	0.03399	3.79717	3.83116	0.03189	0.96402	0.99590	23.5142	4,446.00	4,469.52	2.56695	0.21561	6.12333	4,604.06
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.42736	0.39363	0.37415	2.81097	0.00756	0.00578	0.69298	0.69876	0.00543	0.17593	0.18136	—	701.743	701.743	0.03189	0.03461	1.00672	713.862
Area	0.07319	0.07219	0.00061	0.07281	< 0.000005	0.00013	—	0.00013	0.00010	—	0.00010	—	0.27164	0.27164	0.00001	< 0.000005	—	0.27262

Energy	0.00043	0.00021	0.00389	0.00327	0.00002	0.00030	—	0.00030	0.00030	—	0.00030	—	33.0626	33.0626	0.00312	0.00034	—	33.2423
Water	—	—	—	—	—	—	—	—	—	—	—	0.29935	1.00865	1.30800	0.03079	0.00074	—	2.29860
Waste	—	—	—	—	—	—	—	—	—	—	—	3.59370	0.00000	3.59370	0.35918	0.00000	—	12.5731
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00707	0.00707
Total	0.50097	0.46603	0.37866	2.88705	0.00758	0.00620	0.69298	0.69919	0.00582	0.17593	0.18175	3.89305	736.086	739.979	0.42499	0.03570	1.01379	762.255

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	2.93308	2.64259	2.92579	28.1896	0.07560	0.05349	6.75249	6.80598	0.05026	1.71387	1.76413	—	7,732.45	7,732.45	0.26281	0.31998	24.6286	7,859.00
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.93308	2.64259	2.92579	28.1896	0.07560	0.05349	6.75249	6.80598	0.05026	1.71387	1.76413	—	7,732.45	7,732.45	0.26281	0.31998	24.6286	7,859.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Pharmacy/Drug store with Drive Thru	2.77569	2.48571	3.13825	23.2556	0.07094	0.05351	6.75249	6.80600	0.05028	1.71387	1.76415	—	7,261.10	7,261.10	0.26957	0.33034	0.63860	7,366.92
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	2.77569	2.48571	3.13825	23.2556	0.07094	0.05351	6.75249	6.80600	0.05028	1.71387	1.76415	—	7,261.10	7,261.10	0.26957	0.33034	0.63860	7,366.92
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	0.42736	0.39363	0.37415	2.81097	0.00756	0.00578	0.69298	0.69876	0.00543	0.17593	0.18136	—	701.743	701.743	0.03189	0.03461	1.00672	713.862
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Total	0.42736	0.39363	0.37415	2.81097	0.00756	0.00578	0.69298	0.69876	0.00543	0.17593	0.18136	—	701.743	701.743	0.03189	0.03461	1.00672	713.862

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	123.970	123.970	0.01182	0.00143	—	124.693

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	50.3079	50.3079	0.00480	0.00058	—	50.6010
Total	—	—	—	—	—	—	—	—	—	—	—	—	174.278	174.278	0.01661	0.00201	—	175.294
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	123.970	123.970	0.01182	0.00143	—	124.693
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	50.3079	50.3079	0.00480	0.00058	—	50.6010
Total	—	—	—	—	—	—	—	—	—	—	—	—	174.278	174.278	0.01661	0.00201	—	175.294
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	20.5247	20.5247	0.00196	0.00024	—	20.6443
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	8.32904	8.32904	0.00079	0.00010	—	8.37757
Total	—	—	—	—	—	—	—	—	—	—	—	—	28.8538	28.8538	0.00275	0.00033	—	29.0219

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

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

Pharmacy/Drugstore with Drive Thru	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	25.4214	25.4214	0.00225	0.00005	—	25.4919
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	25.4214	25.4214	0.00225	0.00005	—	25.4919
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drugstore with Drive Thru	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	25.4214	25.4214	0.00225	0.00005	—	25.4919
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00234	0.00117	0.02131	0.01790	0.00013	0.00162	—	0.00162	0.00162	—	0.00162	—	25.4214	25.4214	0.00225	0.00005	—	25.4919
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drugstore with Drive Thru	0.00043	0.00021	0.00389	0.00327	0.00002	0.00030	—	0.00030	0.00030	—	0.00030	—	4.20880	4.20880	0.00037	0.00001	—	4.22048
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000	0.00000	—	0.00000	—	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	0.00043	0.00021	0.00389	0.00327	0.00002	0.00030	—	0.00030	0.00030	—	0.00030	—	4.20880	4.20880	0.00037	0.00001	—	4.22048

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.29139	0.29139	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03864	0.03864	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10365	0.09566	0.00490	0.58252	0.00003	0.00103	—	0.00103	0.00078	—	0.00078	—	2.39547	2.39547	0.00010	0.00002	—	2.40411
Total	0.43369	0.42570	0.00490	0.58252	0.00003	0.00103	—	0.00103	0.00078	—	0.00078	—	2.39547	2.39547	0.00010	0.00002	—	2.40411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.29139	0.29139	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03864	0.03864	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.33004	0.33004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.05318	0.05318	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.00705	0.00705	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	0.01296	0.01196	0.00061	0.07281	< 0.000005	0.00013	—	0.00013	0.00010	—	0.00010	—	0.27164	0.27164	0.00001	< 0.000005	—	0.27262
Total	0.07319	0.07219	0.00061	0.07281	< 0.000005	0.00013	—	0.00013	0.00010	—	0.00010	—	0.27164	0.27164	0.00001	< 0.000005	—	0.27262

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	1.80811	6.09231	7.90042	0.18598	0.00448	—	13.8836

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.29935	1.00865	1.30800	0.03079	0.00074	—	2.29860
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	0.29935	1.00865	1.30800	0.03079	0.00074	—	2.29860

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	21.7061	0.00000	21.7061	2.16945	0.00000	—	75.9423
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	3.59370	0.00000	3.59370	0.35918	0.00000	—	12.5731
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00000	0.00000	0.00000	0.00000	0.00000	—	0.00000
Total	—	—	—	—	—	—	—	—	—	—	—	3.59370	0.00000	3.59370	0.35918	0.00000	—	12.5731

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04270	0.04270
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Pharmacy/Drug store with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00707	0.00707
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00707	0.00707

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Pharmacy/Drugstore with Drive Thru	611.034	611.034	611.034	223,028	3,818.37	9,533.97	9,533.97	1,989,761
Parking Lot	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Pharmacy/Drugstore with Drive Thru	Wood Fireplaces	0	0
Pharmacy/Drugstore with Drive Thru	Gas Fireplaces	0	0

Pharmacy/Drugstore with Drive Thru	Propane Fireplaces	0	0
Pharmacy/Drugstore with Drive Thru	Electric Fireplaces	0	0
Pharmacy/Drugstore with Drive Thru	No Fireplaces	0	0
Pharmacy/Drugstore with Drive Thru	Conventional Wood Stoves	0	0
Pharmacy/Drugstore with Drive Thru	Catalytic Wood Stoves	0	0
Pharmacy/Drugstore with Drive Thru	Non-Catalytic Wood Stoves	0	0
Pharmacy/Drugstore with Drive Thru	Pellet Wood Stoves	0	0
Parking Lot	Wood Fireplaces	0	0
Parking Lot	Gas Fireplaces	0	0
Parking Lot	Propane Fireplaces	0	0
Parking Lot	Electric Fireplaces	0	0
Parking Lot	No Fireplaces	0	0
Parking Lot	Conventional Wood Stoves	0	0
Parking Lot	Catalytic Wood Stoves	0	0
Parking Lot	Non-Catalytic Wood Stoves	0	0
Parking Lot	Pellet Wood Stoves	0	0

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)
0.00000	0.00000	20,091.0	6,697.00	3,632.90

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00000
Summer Days	day/yr	250.000

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)
Pharmacy/Drugstore with Drive Thru	130,704	346.196	0.0330	0.0040	79,321.6
Parking Lot	53,040.4	346.196	0.0330	0.0040	0.00000

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Pharmacy/Drugstore with Drive Thru	943,574	0.00000
Parking Lot	0.00000	0.00000

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Pharmacy/Drugstore with Drive Thru	40.2757	0.00000
Parking Lot	0.00000	0.00000

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

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

Pharmacy/Drugstore with Drive Thru	Household refrigerators and/or freezers	User Defined	150.000	0.45455	0.60000	0.00000	1.000000
Pharmacy/Drugstore with Drive Thru	Other commercial A/C and heat pumps	User Defined	750.000	0.00230	4.00000	4.00000	18.0000

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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	27.8300	annual days of extreme heat
Extreme Precipitation	5.10000	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	21.4300	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	99.0666
AQ-PM	47.0566
AQ-DPM	72.6322
Drinking Water	39.8277
Lead Risk Housing	0.06301
Pesticides	0.00000
Toxic Releases	42.5231
Traffic	98.0000
Effect Indicators	—
CleanUp Sites	0.00000
Groundwater	0.00000
Haz Waste Facilities/Generators	0.00000
Impaired Water Bodies	0.00000
Solid Waste	0.00000
Sensitive Population	—
Asthma	52.0065
Cardio-vascular	88.5219
Low Birth Weights	—
Socioeconomic Factor Indicators	—
Education	30.8656
Housing	49.0241
Linguistic	—
Poverty	44.8744
Unemployment	—

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	—
Employed	—
Median HI	—
Education	—
Bachelor's or higher	—
High school enrollment	—
Preschool enrollment	—
Transportation	—
Auto Access	—
Active commuting	—
Social	—
2-parent households	—
Voting	—
Neighborhood	—
Alcohol availability	—
Park access	—
Retail density	—
Supermarket access	—
Tree canopy	—
Housing	—
Homeownership	—
Housing habitability	—
Low-inc homeowner severe housing cost burden	—
Low-inc renter severe housing cost burden	—

Uncrowded housing	—
Health Outcomes	—
Insured adults	—
Arthritis	0.0
Asthma ER Admissions	49.4
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	0.0
Cognitively Disabled	2.2
Physically Disabled	0.6
Heart Attack ER Admissions	0.5
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	0.0
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	99.4
Elderly	0.2
English Speaking	0.0
Foreign-born	0.0
Outdoor Workers	98.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	82.6
Traffic Density	0.0
Traffic Access	23.0
Other Indices	—
Hardship	0.0
Other Decision Support	—
2016 Voting	0.0

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	46.0000
Healthy Places Index Score for Project Location (b)	—
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

8.1. Justifications

Screen	Justification
Operations: Vehicle Data	Trip characteristics based on Trip Generation
Operations: Refrigerants	As of 1 January 2022, new commercial refrigeration equipment may not use refrigerants with a GWP of 150 or greater. Further, R-404A (the CalEEMod default) is unacceptable for new supermarket and cold storage systems as of 1 January 2019 and 2023, respectively. Beginning 1 January 2025, all new air conditioning equipment may not use refrigerants with a GWP of 750 or greater.

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Pharmacy/Drugstore with Drive Thru	Weekday Trip Rate	size/day	109.160	45.6200
Pharmacy/Drugstore with Drive Thru	Saturday Trip Rate	size/day	114.890	45.6200
Pharmacy/Drugstore with Drive Thru	Sunday Trip Rate	size/day	45.5700	45.6200

8.5.6. Refrigerants

Land Use	Equipment Type	Model Parameter	Default Value	New Value
Pharmacy/Drugstore with Drive Thru	Household refrigerators and/or freezers	Refrigerant	R-134a	User Defined
Pharmacy/Drugstore with Drive Thru	Household refrigerators and/or freezers	GWP	1,430.00	150.000

Pharmacy/Drugstore with Drive Thru	Other commercial A/C and heat pumps	Refrigerant	R-410A	User Defined
Pharmacy/Drugstore with Drive Thru	Other commercial A/C and heat pumps	GWP	2,088.00	750.000