Appendix B

Air Quality and Greenhouse Gas Emissions Technical Report

Alexan Escondido Project

Air Quality and Greenhouse Gas Emissions Technical Report

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ACRONYMS AND ABBREVIATIONS

$\mu g/m^3$	micrograms per cubic meter
AAM	annual arithmetic mean
AAQS	Ambient Air Quality Standard
AB	Assembly Bill
ADMRT	Air Dispersion Modeling and Risk Tool
ADA	Americans with Disabilities Act
ADT	average daily trips
AERMAP	air quality dispersion model terrain preprocessor
AERMOD	air quality dispersion model
APS	alternative planning strategy
AR4	United Nations Intergovernmental Panel on Climate Change Fourth Assessment Report
AR5	United Nations Intergovernmental Panel on Climate Change Fifth Assessment Report
Attainment Plan	Ozone Attainment Plan for San Diego County
BAAQMD	Bay Area Air Quality Management District
CAA	Clean Air Act (Federal)
CAAQS	California Ambient Air Quality Standard
CAFE	Corporate Average Fuel Economy
CalEEMod	California Emission Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	CCR Title 24 Part 11, California Green Building Standards code
CAP	Climate Action Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CBSC	California Building Standards Commission
CCR	California Code of Regulations
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFCs	chlorofluorocarbons
CH_4	methane
City	City of Escondido
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	carbon dioxide equivalent
CY	cubic yards
DPM	diesel particulate matter
EO	Executive Order
EQR	Environmental Quality Regulation

ACRONYMS AND ABBREVIATIONS (cont.)

EV	electric vehicle
EVCS	electric vehicle charging station
°F	degrees Fahrenheit
FAR	floor to area ratio
FPR	Filter Performance Rating
g/L	grams per liter
GHG	greenhouse gases
GWP	Global Warming Potential
HARP	Hotspots Analysis and Reporting Program
HELIX	HELIX Environmental Planning, Inc.
HFCs	hydrofluorocarbons
HI	Hazard Index
HOV	high-occupancy vehicle
HRA	Health Risk Assessment
HVAC	heating, ventilation, and air conditioning
I-15	Interstate 15
IPCC	United Nations Intergovernmental Panel on Climate Change
km	kilometer
kW	kilowatts
kWh	kilowatt hours
LCFS	Low Carbon Fuel Standard
LLG	Linscott, Law & Greenspan Engineers
LMA	Local Mobility Analysis
MERV	Minimum Efficiency Reporting Value
mg/m^3	milligrams per cubic meter
MMT	million metric tons
mph	miles per hour
MPO	Metropolitan Planning Organization
MPR	Micro-Particle Performance Rating
MT	metric ton
NAAQS	National Ambient Air Quality Standard
NASA	National Aeronautics and Space Administration
NED	National Elevation Dataset
NHTSA	National Highway Traffic Safety Administration
N_2O	nitrous oxide
NO_2	nitrogen dioxide

ACRONYMS AND ABBREVIATIONS (cont.)

NOAA	National Oceanic and Atmospheric Administration
NO_X	oxides of nitrogen
O_3	Ozone
OEHHA	Office of Environmental Health Hazard Assessment
Pb	lead
PFCs	perfluorocarbons
PM	particulate matter
PM_{10}	particulate matter 10 microns or less in diameter
$PM_{2.5}$	particulate matter 2.5 microns or less in diameter
ppb	parts per billion
ppm	parts per million
project	Alexan Escondido Project
RAQS	Regional Air Quality Strategy
REL	Reference Exposure Limit
ROG	reactive organic gas
ROW	right-of-way
RTP	regional transportation plan
SANDAG	San Diego Association of Governments
SB	Senate Bill
SCAQMD	South Coast Air Quality Management District
SCS	Sustainable Communities Strategy
SDAB	San Diego Air Basin
SDAPCD	San Diego County Air Pollution Control District
SF	square feet/foot
SF_6	sulfur hexafluoride
SIP	State Implementation Plan
SLCP	short-lived climate pollutant
SMAQMD	Sacramento Metropolitan Air Quality Management District
SO_2	sulfur dioxide
SO_X	oxides of sulfur
TAC	Toxic Air Contaminant
TDM	Transportation Demand Management
UNFCC	United Nations Framework Convention on Climate Change
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
VMT	vehicle miles traveled
VOC	volatile organic compound

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EXECUTIVE SUMMARY

This report presents an assessment of potential air quality and greenhouse gas (GHG) emission impacts during construction and operation of the proposed Alexan Escondido Project (project), located in the City of Escondido (City). The project would develop 258 units of multi-family residential housing and redevelop a church building on approximately 15 acres.

The project would require a General Plan Amendment to change the land use designation and a rezone to allow for multi-family residential uses on site. Ozone precursor emissions from operation of the project would be less than emissions associated with maximum allowable buildout of the project site under the existing General Plan land use designation. Therefore, emissions from growth in the region as a result of the project would be accounted for in the growth assumptions used to develop the San Diego County Air Pollution Control District's (SDAPCD's) Regional Air Quality Strategy and Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County. Therefore, the proposed project would not conflict with or obstruct implementation of the applicable air quality plans.

The project would result in emissions of criteria air pollutants during construction and operation. Project emissions of criteria pollutants and precursors during construction and operation would not exceed the SDAPCD emissions screening thresholds. Impacts related to cumulatively considerable net increases of criteria pollutants in the region would be less than significant.

Project-generated traffic would not result in a carbon monoxide hot spot. Construction and operation of the project would not result in exposure of existing sensitive receptors to significant quantities of toxic air contaminants. Due to the proximity of the residential development to a high-volume roadway (Interstate 15), a health risk assessment was conducted to evaluate health effects impacting future project residents. Impacts related to exposure of sensitive off-site receptors to substantial pollutant concentrations, or other emissions such as odors, would be less than significant. However, future project residents could be exposed to substantial concentrations of diesel particulate matter from nearby high-volume roadways. With implementation of compliance measure AQ-1 to the design of project buildings, including mechanical ventilation systems with MERV 13 or higher rated filters, future project residents would not be exposed to substantial concentrations of pollutants from nearby high-volume roadways.

The project would be consistent with the City's Climate Action Plan, a qualified GHG reduction plan. Development projects consistent with an applicable local, qualified GHG reduction plan are eligible for streamlined GHG analysis. Therefore, the project would not conflict with or obstruct implementation of a GHG reduction plan or policy, the project would be consistent with statewide GHG reduction goals for 2020 and 2030, and the project's GHG emissions would result in a less than significant impact.

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1.0 INTRODUCTION

This report presents an assessment of potential air quality and greenhouse gas (GHG) emission impacts resulting from construction and operation of the proposed Alexan Escondido Project (project). A health risk assessment (HRA) is included as part of the air quality analysis in this report to estimate health risks to future project residents from exposure to vehicle exhaust from nearby high-volume roadways. Analysis within this report was prepared to support impact analysis pursuant to the California Environmental Quality Act (CEQA; Public Resources Code Sections 21000 et seq.) and CEQA Guidelines (Title 14, Section 15000 et seq. of the California Code of Regulations).

1.1 PROJECT LOCATION

The project site is located at 855 Brotherton Road within the City of Escondido (City) and includes two parcels (Assessor's Parcel Numbers 236-333-41 and 236-333-53) that encompass 14.83 acres. The site is bounded by Felicita Road to the west, Brotherton Road to the north, residential development to the east, and residential development and an agricultural use to the south (Figure 1, *Regional Location*, and Figure 2, *Aerial Photograph*). The land uses in the surrounding area consist of single-family residences to the west; single-family residences, a nursing home, and Miller Elementary School to the north; single-family residences to the east; and single-family residences and agriculture uses to the south. The eastern edge of Interstate 15 (I-15), which is elevated along this segment of the freeway, is approximately 120 feet from the southwestern corner of the site (see Figures 1 and 2).

The project site currently has a Planned Office (PO) land use designation and is zoned as estate residential (R-E). The site currently contains a 24,395-square-foot (SF) church building, two school buildings totaling 14,946 SF, and a 2,062-SF parking lot.

1.2 PROJECT DESCRIPTION

The project would demolish the existing church building and parking lot and construct a multi-family residential development, new church building, and associated improvements. The proposed residential development includes 258 multi-family residential apartments with a mix of one- to three-bedroom units. Thirteen apartments would be allocated as affordable housing units. Ten residential buildings would include three-story townhomes at an approximate height of 38 feet and four-story flats at-grade (no subterranean levels) at an approximate height of 49 feet. The project proposes 112 one-bedroom units ranging in size from approximately 700 to 800 SF, 122 two-bedroom units ranging between approximately 1,000 and 1,600 SF, and 24 three-bedroom units between 1,600 and 1,800 SF. The total residential building area would encompass 350,380 SF (including 173 ground level garages). Proposed resident amenities include: an approximately 11,544-SF two-story clubhouse/leasing center building; an approximately 662-SF one-story building containing a pet spa and a maintenance garage; and a swimming pool (Figure 3, *Residential Development Site Plan*).

A new two-story church building would be constructed on the east side of the project site adjacent to the two school buildings that would remain. The approximately 24,627-SF church building would have a 600-seat sanctuary and an entryway/foyer, as well as offices, meeting rooms, a kitchen, and storage. An outdoor courtyard would also be constructed between the new church and the existing school buildings (Figure 4, *Church Redevelopment Site Plan*). The church development would also construct two dwelling units in the eastern portion of the church site to be used as temporary housing for traveling missionaries

supported by the church. One unit would include a primary residence with an area of approximately 1,050 SF, and the other would be an approximately 500-SF accessory dwelling unit.

Access to the proposed residential development would be provided via two entries. The primary entry would be from Felicita Road with a secondary entry along Brotherton Road. Parking would be provided within resident garages and surface lots between the residential buildings. A total of 441 parking spaces would be provided, including 169 garage spaces, 220 open spaces, and 52 carport spaces. Internal circulation would be provided via a system of connected drive aisles between the project entries, residential garages, and parking areas. Additionally, accessible walkways would be provided throughout the site to connect the common areas to the residential buildings, amenity buildings, and parking areas. Access to the church would continue to be provided via two entries from Brotherton Road but the parking lot and on-site circulation would be modified to accommodate the new facilities. Parking would be provided by 207 spaces in the surface lot surrounding the church building. A basketball court would also be constructed in the southeastern portion of the site.

Landscaping would be provided along the project frontages of Felicita Road and Brotherton Road, the southern site boundary, project entries, proposed buildings, clubhouse/leasing center, parking areas, and other common areas.

Off-site improvements within the right-of-way (ROW) of Felicita Road and Brotherton Road include a 17-foot widening of Felicita Road along the project frontage, sidewalks, curb and gutters, curb ramps, and driveway curb cuts.

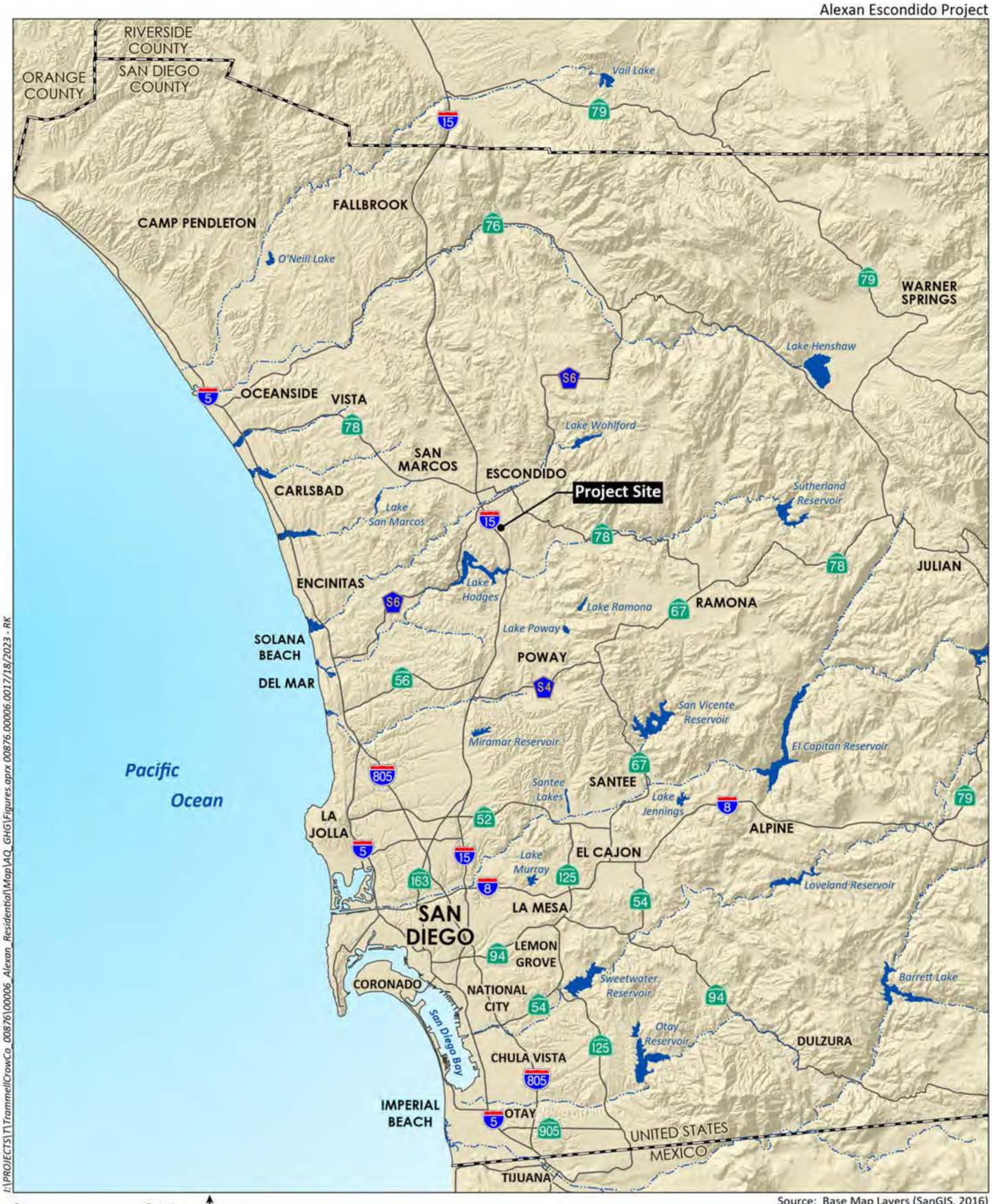
The project would include connections to the existing utilities located in the Felicita Road and Brotherton Road ROWs. Additionally, the project proposes to install retaining walls on the project's northeastern corner, eastern boundary, and southern boundary. Retaining wall heights would vary, with the maximum height being approximately 13 feet.

The project would require a General Plan Amendment to change the land use designation to Urban V and a rezone to residential (R-5) to allow for multi-family residential development. A conditional use permit modification is also required to allow the new church in the R-5 zone.

As a project design feature, the project would not include any natural gas fireplaces, wood fireplaces, or wood stoves. In addition, the residential building designs will include a mechanical ventilation system that meets the criteria of the International Building Code (Section 1203.2 of the California Building Code) to ensure that windows would be able to remain closed while maintaining adequate ventilation and temperature control. The mechanical ventilation system will be designed to accommodate, and equipped with, filters having a Minimum Efficiency Reporting Value (MERV) rating of 13 or higher.

1.3 CONSTRUCTION ACTIVITIES AND PHASING

Construction is assumed to commence in August 2026 and be complete by September 2028, with construction of the church concluding in March 2028. Construction activities would include site preparation (clearing/grubbing), demolition, grading, installation of underground utilities, building construction, paving, and architectural coating (e.g., painting). Construction of the residential and church portions of the project would begin concurrently but would have variations in the length of each phase and total construction duration; see Section 4.1.1.1 for construction activity details and assumptions used in this analysis.

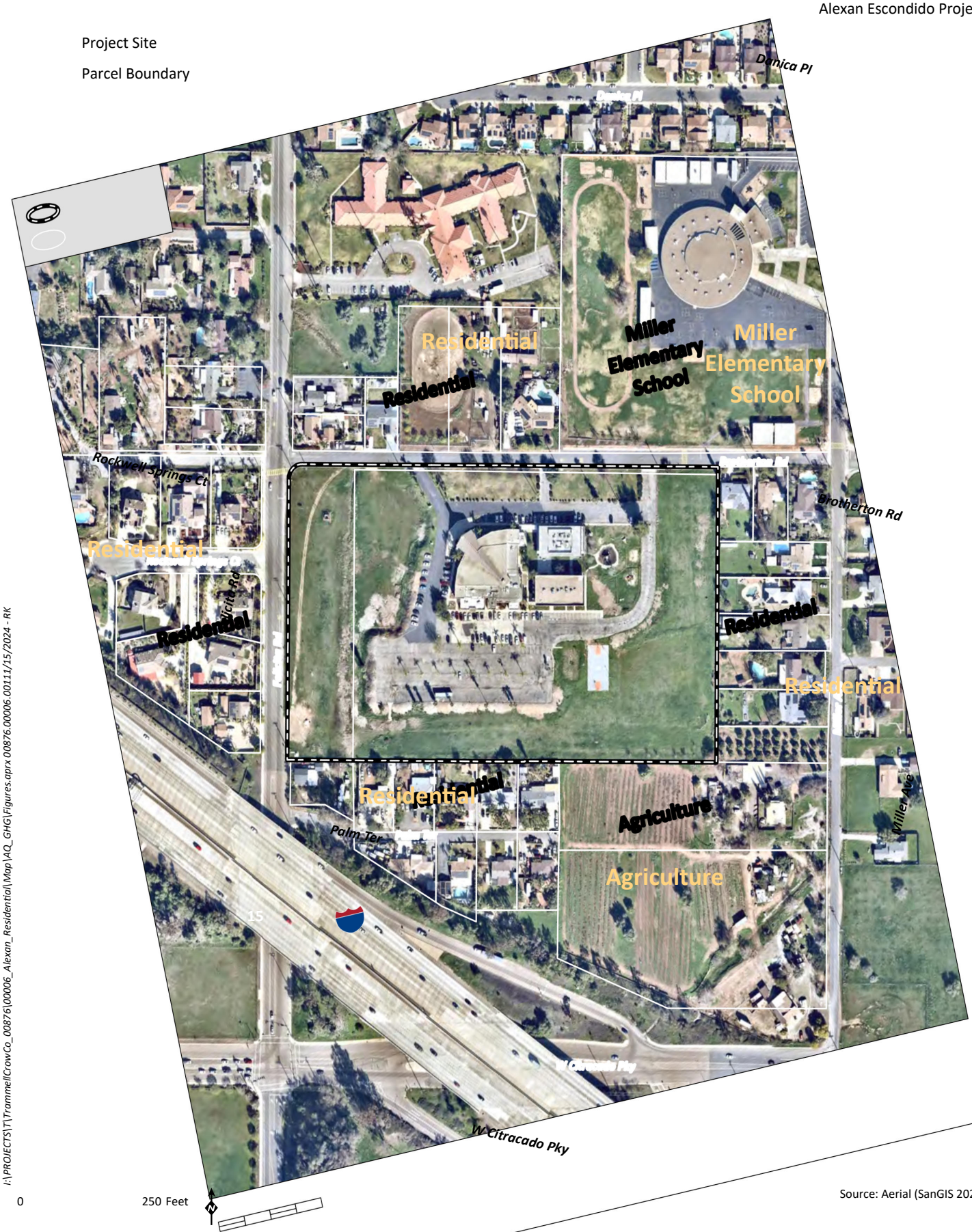


Source: Base Map Layers (SanGIS, 2016)

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Regional Location

Figure 1



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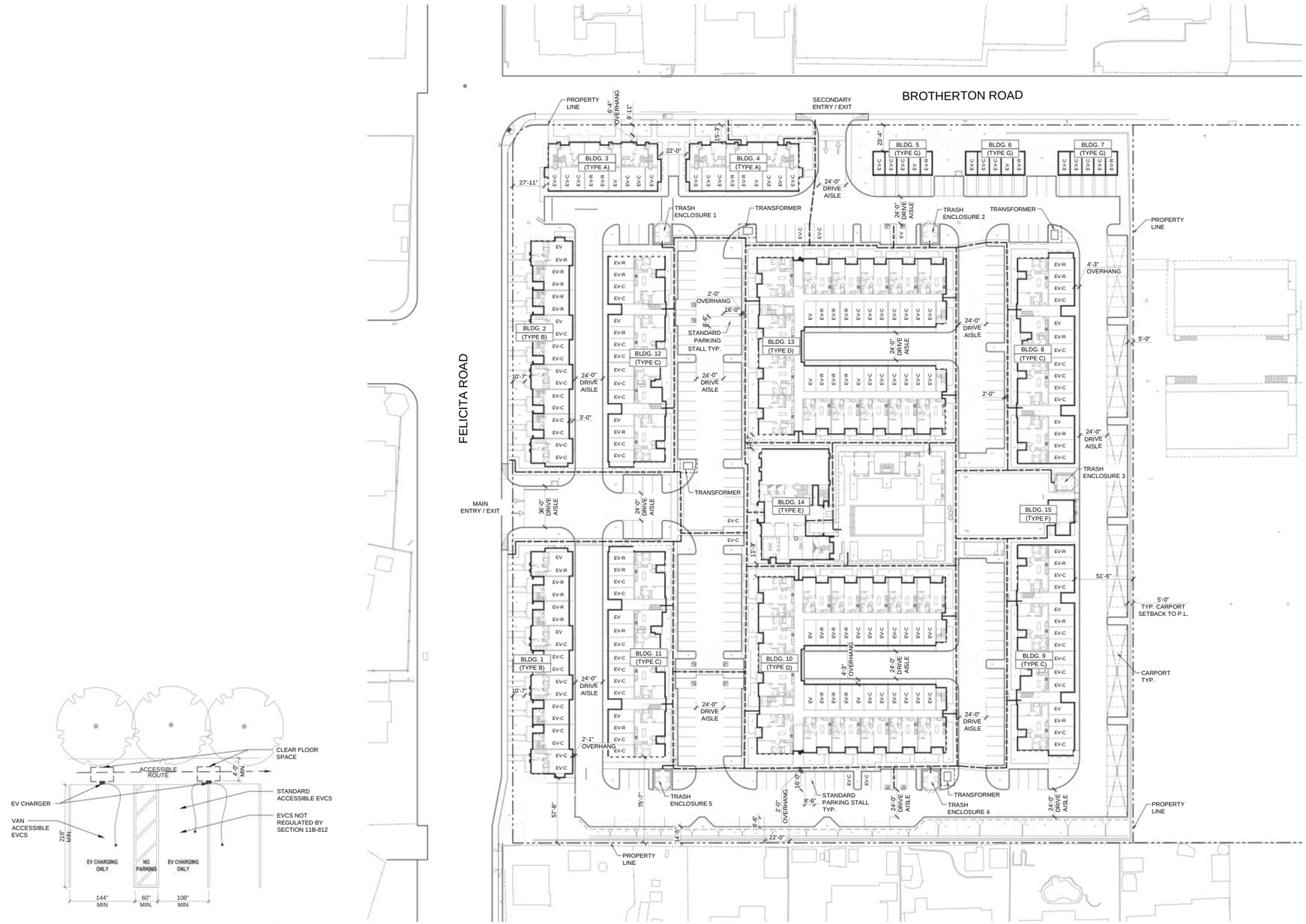
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Source: Aerial (SanGIS 2023)

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Aerial Photograph

Figure 2



SITE PLAN 1

LEGEND

PROPERTY LINE	
ADA PATH OF TRAVEL	
EV-C	EV CAPABLE STALLS
EV-R	EV READY STALLS
EV	EV CHARGER STALLS

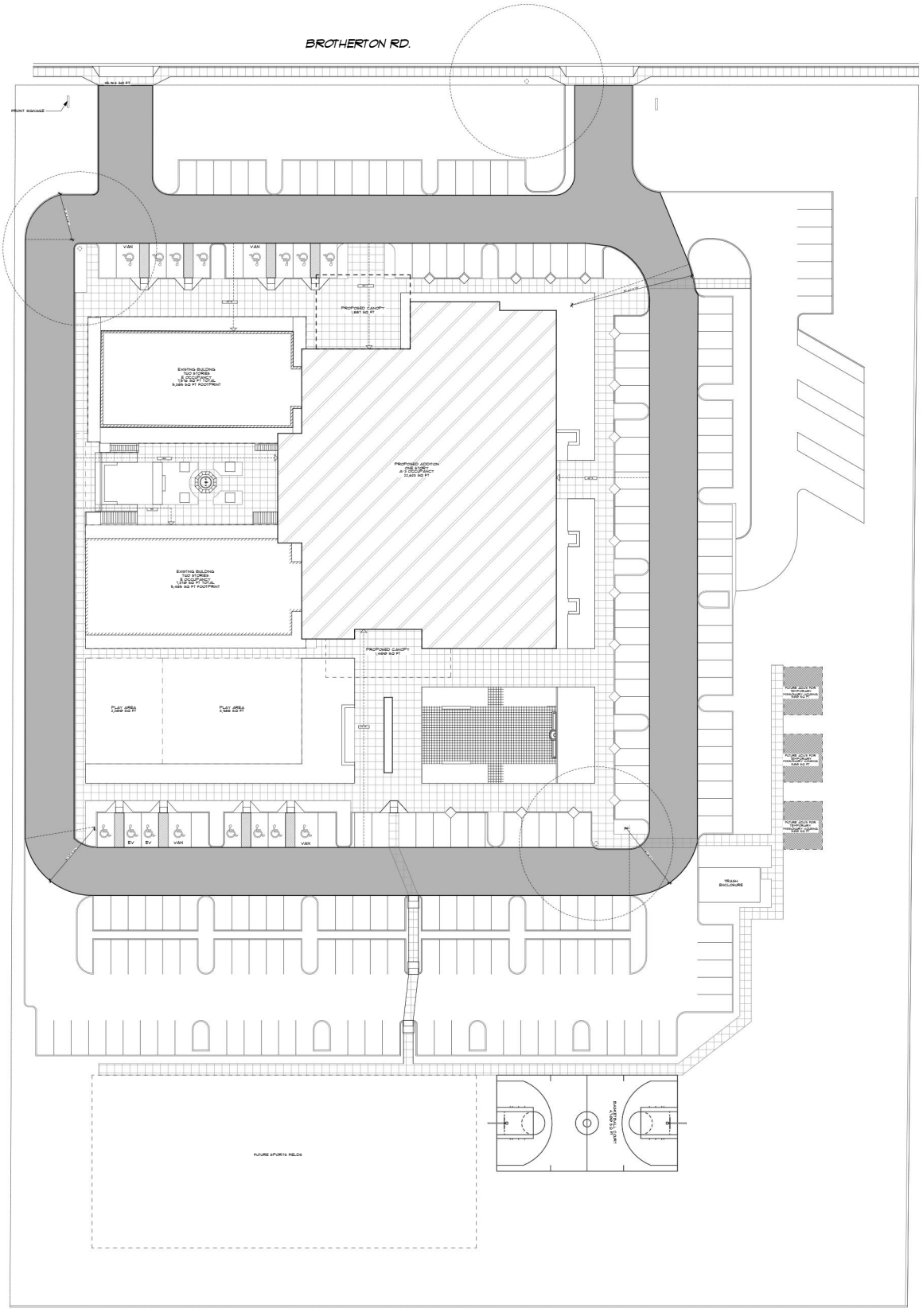
NOTE :

1. EXISTING OVER HEAD UTILITIES AND POLES TO BE UNDERGROUNDED, REFER TO CIVIL DRAWINGS.

TYP. EV. PARKING STATION 2

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Source: adc 2024



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Source: BGW Architects 2024

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Church Redevelopment Site Plan

Figure 4

2.0 REGULATORY SETTING

2.1 AIR QUALITY

The project site is located within the San Diego Air Basin (SDAB), which is comprised of all of San Diego County. Air quality in the SDAB is regulated by the U.S. Environmental Protection Agency (USEPA) at the federal level, by the California Air Resources Board (CARB) at the state level, and by the San Diego County Air Pollution Control District (SDAPCD) at the regional level.

2.1.1 Air Pollutants of Concern

2.1.1.1 Criteria Pollutants

Criteria pollutants are defined by state and federal law as a risk to the health and welfare of the public. In general, criteria air pollutants include the following compounds:

- Ozone (O_3)
- Carbon monoxide (CO)
- Nitrogen dioxide (NO_2)
- Particulate matter (PM), which is further subdivided:
  - Coarse PM, 10 microns or less in diameter (PM_{10})
  - Fine PM, 2.5 microns or less in diameter ($PM_{2.5}$)
- Sulfur dioxide (SO_2)
- Lead (Pb)

Criteria pollutants can be emitted directly from sources (primary pollutants; e.g., CO, SO_2, PM_{10}, $PM_{2.5}$, and lead), or they may be formed through chemical and photochemical reactions of precursor pollutants in the atmosphere (secondary pollutants; e.g., ozone, NO_2, PM_{10}, and $PM_{2.5}$). PM_{10} and $PM_{2.5}$ can be both primary and secondary pollutants. The principal precursor pollutants of concern are reactive organic gases (ROGs; also known as volatile organic compounds [VOCs])[1] and nitrogen oxides (NO_X).

The descriptions of sources and general health effects for each of the criteria air pollutants are shown in Table 1, *Summary of Common Sources and Human Health Effects of Criteria Air Pollutants*. Specific adverse health effects on individuals or population groups induced by criteria pollutant emissions are highly dependent on a multitude of interconnected variables such as cumulative concentrations, local meteorology and atmospheric conditions, and the number and characteristics of exposed individuals (e.g., age, gender). Criteria pollutant precursors (ROG and NO_X) affect air quality on a regional scale, typically after significant delay and distance from the pollutant source. Health effects related to ozone and NO_2 are, therefore, the product of emissions generated by numerous sources throughout a region. Emissions of criteria pollutants from vehicles traveling to or from the project site (mobile emissions) are distributed nonuniformly in location and time throughout the region, wherever the vehicles may travel.

[1] CARB defines and uses the term ROGs while the USEPA defines and uses the term VOCs. The compounds included in the lists of ROGs and VOCs and the methods of calculation are slightly different. However, for the purposes of estimating criteria pollutant precursor emissions, the two terms are often used interchangeably.

As such, specific health effects from these criteria pollutant emissions cannot be meaningfully correlated to the incremental contribution from the project.

Table 1
SUMMARY OF COMMON SOURCES AND HUMAN HEALTH EFFECTS OF CRITERIA AIR POLLUTANTS

Pollutant	Major Human-Made Sources	Human Health Effects
Carbon Monoxide (CO)	An odorless, colorless gas formed when carbon in fuel is not burned completely; a component of motor vehicle exhaust.	Reduces the ability of blood to deliver oxygen to vital tissues, affecting the cardiovascular and nervous system. Impairs vision, causes dizziness, and can lead to unconsciousness or death.
Nitrogen Dioxide (NO_2)	A reddish-brown gas formed during fuel combustion for motor vehicles and industrial sources. Sources include motor vehicles, electric utilities, and other sources that burn fuel.	Respiratory irritant; aggravates lung and heart problems. Precursor to ozone and acid rain. Contributes to climate change and nutrient overloading, which deteriorates water quality. Causes brown discoloration of the atmosphere.
Ozone (O_3)	Formed by a chemical reaction between reactive organic gases (ROGs) and nitrogen oxides (NO_X) in the presence of sunlight. Common sources of these precursor pollutants include motor vehicle exhaust, industrial emissions, gasoline storage and transport, solvents, paints, and landfills.	Irritates and causes inflammation of the mucous membranes and lung airways; causes wheezing, coughing, and pain when inhaling deeply; decreases lung capacity; aggravates lung and heart problems. Damages plants; reduces crop yield. Damages rubber, some textiles, and dyes.
Particulate Matter (PM_{10} and $PM_{2.5}$)	Produced by power plants, steel mills, chemical plants, unpaved roads and parking lots, wood-burning stoves and fireplaces, automobiles, and other sources.	Increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing; aggravated asthma; development of chronic bronchitis; irregular heartbeat; nonfatal heart attacks; and premature death in people with heart or lung disease. Impairs visibility (haze).
Sulfur Dioxide (SO_2)	A colorless, nonflammable gas formed when fuel containing sulfur is burned, when gasoline is extracted from oil, or when metal is extracted from ore. Examples are petroleum refineries, cement manufacturing, metal processing facilities, locomotives, and ships.	Respiratory irritant. Aggravates lung and heart problems. In the presence of moisture and oxygen, sulfur dioxide converts to sulfuric acid, which can damage marble, iron, and steel. Damages crops and natural vegetation. Impairs visibility. Precursor to acid rain.
Lead (Pb)	Metallic element emitted from metal refineries, smelters, battery manufacturers, iron and steel producers, and use of leaded fuels by racing and aircraft industries.	Anemia, high blood pressure, brain and kidney damage, neurological disorders, cancer, lowered IQ. Affects animals, plants, and aquatic ecosystems.

Source: CARB 2024a; USEPA 2024a

2.1.1.2 Toxic Air Contaminants

The Health and Safety Code (Section 39655, subd. [a]) defines a toxic air contaminant (TAC) as "an air pollutant which may cause or contribute to an increase in mortality or in serious illness, or which may pose a present or potential hazard to human health." A substance that is listed as a hazardous air pollutant pursuant to subsection (b) of Section 112 of the Federal Clean Air Act (CAA) (42 United States Code Section 7412[b]) is a TAC. Under state law, the California Environmental Protection Agency

(CalEPA), acting through CARB, is authorized to identify a substance as a TAC if it determines the substance is an air pollutant that may cause or contribute to an increase in mortality or an increase in serious illness, or that may pose a present or potential hazard to human health.

Diesel engines emit a complex mixture of air pollutants, including both gaseous and solid material. The solid material in diesel exhaust is referred to as diesel particulate matter (DPM). Almost all DPM is 10 microns or less in diameter, and 90 percent of DPM is less than 2.5 microns in diameter (CARB 2024b). Because of their extremely small size, these particles can be inhaled and eventually trapped in the bronchial and alveolar regions of the lung. In 1998, CARB identified DPM as a TAC based on published evidence of a relationship between diesel exhaust exposure and lung cancer and other adverse health effects. DPM has a notable effect on California's population—it is estimated that about 70 percent of total known cancer risk related to air toxins in California is attributable to DPM (CARB 2024b).

2.1.2 Federal Air Quality Regulations

2.1.2.1 Federal Clean Air Act

Air quality is defined by ambient air concentrations of specific pollutants identified by the USEPA to be of concern with respect to health and welfare of the public. The USEPA is responsible for enforcing the CAA of 1970 and its 1977 and 1990 Amendments. The CAA required the USEPA to establish National Ambient Air Quality Standards (NAAQS), which identify concentrations of pollutants in the ambient air below which no adverse effects on the public health and welfare are anticipated. In response, the USEPA established both primary and secondary standards for several criteria pollutants. Table 2, *Ambient Air Quality Standards*, shows the federal and state ambient air quality standards for these pollutants.

Table 2
AMBIENT AIR QUALITY STANDARDS

Pollutant	Averaging Time	California Standards	Federal Standards Primary[1]	Federal Standards Secondary[2]
O_3	1 Hour	0.09 ppm (180 µg/m^3)	–	–
	8 Hour	0.070 ppm (137 µg/m^3)	0.070 ppm (137 µg/m^3)	Same as Primary
PM_{10}	24 Hour	50 µg/m^3	150 µg/m^3	Same as Primary
	AAM	20 µg/m^3	–	Same as Primary
$PM_{2.5}$[3]	24 Hour	–	35 µg/m^3	Same as Primary
	AAM	12 µg/m^3	9.0 µg/m^3	15.0 µg/m^3
CO	1 Hour	20 ppm (23 mg/m^3)	35 ppm (40 mg/m^3)	–
	8 Hour	9.0 ppm (10 mg/m^3)	9 ppm (10 mg/m^3)	–
	8 Hour (Lake Tahoe)	6 ppm (7 mg/m^3)	–	–
NO_2	1 Hour	0.18 ppm (339 µg/m^3)	0.100 ppm (188 µg/m^3)	–
	AAM	0.030 ppm (57 µg/m^3)	0.053 ppm (100 µg/m^3)	Same as Primary
SO_2	1 Hour	0.25 ppm (655 µg/m^3)	0.075 ppm (196 µg/m^3)	–
	3 Hour	–	–	0.5 ppm (1,300 µg/m^3)
	24 Hour	0.04 ppm (105 µg/m^3)	0.14 ppm	–

Pollutant	Averaging Time	California Standards	Federal Standards Primary[1]	Federal Standards Secondary[2]
Lead	30-day Avg.	1.5 µg/m^3	–	–
	Calendar Quarter	–	1.5 µg/m^3	Same as Primary
	Rolling 3-month Avg.	–	0.15 µg/m^3	Same as Primary
Visibility Reducing Particles	8 Hour	Extinction coefficient of 0.23 per km – visibility ≥ 10 miles (0.07 per km – ≥30 miles for Lake Tahoe)	No Federal Standards	No Federal Standards
Sulfates	24 Hour	25 µg/m^3	No Federal Standards	No Federal Standards
Hydrogen Sulfide	1 Hour	0.03 ppm (42 µg/m^3)	No Federal Standards	No Federal Standards
Vinyl Chloride	24 Hour	0.01 ppm (26 µg/m^3)	No Federal Standards	No Federal Standards

Source: CARB 2024c; USEPA 2024b

1 National Primary Standards: The levels of air quality necessary, within an adequate margin of safety, to protect public health.

2 National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

3 The AAM primary federal standard for $PM_{2.5}$ was reduced from 12.0 µg/m^3 to 9.0 µg/m^3 by a USEPA final rule issued on February 7, 2024. No change in the state or 24-hour federal standard has occurred as of January 2026.

O_3 = ozone; ppm = parts per million; µg/m^3 = micrograms per cubic meter; PM_{10} = particulate matter with a diameter of 10 microns or less; AAM = Annual Arithmetic Mean; $PM_{2.5}$ = fine particulate matter; CO = carbon monoxide; mg/m^3; = milligrams per cubic meter; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxide; km = kilometer; – = No Standard

The USEPA has classified air basins (or portions thereof) as being in "attainment," "nonattainment," "maintenance," or "unclassified" for each criteria air pollutant, based on whether the NAAQS have been achieved. Upon attainment of a standard for which an area was previously designated nonattainment, the area will be classified as a maintenance area. If an area is designated unclassified, it is because inadequate air quality data were available as a basis for a nonattainment or attainment designation. The project site is located within the SDAB and, as such, is in an area designated as a nonattainment area for certain pollutants that are regulated under the CAA. Table 3, *San Diego Air Basin Attainment Status*, lists the federal and state attainment status of the SDAB for the criteria pollutants. Effective July 2, 2021, the SDAB was classified as a severe 15 nonattainment area for the 8-hour NAAQS for ozone (USEPA 2024c). The SDAB is an attainment area, or unclassifiable, for the NAAQS for all other criteria pollutants (USEPA 2024c).

Table 3
SAN DIEGO AIR BASIN ATTAINMENT STATUS

Criteria Pollutant	Federal Designation	State Designation
Ozone (1-hour)	Attainment[1]	Nonattainment
Ozone (8-hour)	Nonattainment	Nonattainment
CO	Attainment	Attainment
PM_{10}	Unclassifiable[2]	Nonattainment
$PM_{2.5}$	Attainment	Nonattainment
NO_2	Attainment	Attainment
SO_2	Attainment	Attainment
Lead	Attainment	Attainment

Criteria Pollutant	Federal Designation	State Designation
Sulfates	(No federal standard)	Attainment
Hydrogen Sulfide	(No federal standard)	Unclassified
Visibility	(No federal standard)	Unclassified

Source: SDAPCD 2024a; USEPA 2024c

[1] The federal 1-hour standard of 12 ppm was in effect from 1979 through June 15, 2005. The revoked standard is referenced here because it was employed for such a long period and because this benchmark is addressed in State Implementation Plans.

[2] At the time of designation, if the available data does not support a designation of attainment or nonattainment, the area is designated as unclassifiable.

CO = carbon monoxide; PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter; NO_2 = nitrogen dioxide; SO_2 = sulfur dioxide

2.1.3 California Air Quality Regulations

2.1.3.1 California Clean Air Act

The federal CAA allows states to adopt ambient air quality standards and other regulations provided they are at least as stringent as federal standards. CARB, a part of the CalEPA, is responsible for the coordination and administration of both federal and state air pollution control programs within California, including setting the California Ambient Air Quality Standards (CAAQS). CARB also conducts research, compiles emission inventories, develops suggested control measures, and provides oversight of local programs. CARB establishes emissions standards for motor vehicles sold in California, consumer products (such as hairspray, aerosol paints, and barbecue lighter fluid), and various types of commercial equipment. It also sets fuel specifications to further reduce vehicular emissions.

In addition to primary and secondary Ambient Air Quality Standards (AAQS), the state has established a set of episode criteria for ozone, CO, NO_2, SO_2, and PM. These criteria refer to episode levels representing periods of short-term exposure to air pollutants that actually threaten public health. Table 3, above, lists the state attainment status of the SDAB for the criteria pollutants. Under state designation, the SDAB is currently in attainment for CO, NO_2, SO_2, lead, and sulfates; unclassified for hydrogen sulfide and visibility reducing particles; and in nonattainment for ozone (1-hour and 8-hour), PM_{10}, and $PM_{2.5}$ (SDAPCD 2024a).

2.1.3.2 State Implementation Plan

The CAA requires areas with unhealthy levels of criteria pollutants to develop plans, known as State Implementation Plans (SIPs). SIPs are comprehensive plans that describe how an area will attain the NAAQS. The 1990 amendments to the CAA set deadlines for attainment based on the severity of an area's air pollution problem.

SIPs are not single documents—they are a compilation of new and previously submitted plans, programs (e.g., monitoring, modeling, permitting), district rules, state regulations, and federal controls. Many of California's SIPs rely on a core set of control strategies, including emission standards for cars and heavy trucks, fuel regulations, and limits on emissions from consumer products. State law makes CARB the lead agency for all purposes related to the SIP. Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB forwards the SIP revisions to the USEPA for approval and publication in the Federal Register. The Code of Federal Regulations, Title 40, Chapter I, Part 52, Subpart F, Section 52.220, lists all of the items that are included in the California SIP (CARB 2009). At any one time, several California submittals are pending USEPA approval.

2.1.3.3 California Energy Code

California's Energy Efficiency Standards for Residential and Nonresidential Buildings, California Code of Regulations (CCR) Title 24 Part 6, were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space and water heating) results primarily in GHG emissions. The California Energy Code is discussed in further detail in Section 2.2.4, below.

2.1.4 Local Regulations

2.1.4.1 Attainment Plan

The SDAPCD and San Diego Association of Governments (SANDAG) are responsible for developing and implementing the clean air plan for attainment and maintenance of the ambient air quality standards in the SDAB. The regional air quality plan for San Diego County for attainment of the NAAQS is SDAPCD's *2020 Plan for Attaining the National Ambient Air Quality Standards for Ozone in San Diego County* (Attainment Plan; SDAPCD 2020). The Attainment Plan, which would be a revision to the SIP, outlines SDAPCD's plans and control measures designed to attain the NAAQS for ozone. For attainment of the CAAQS, the SDAPCD must prepare an updated State Ozone Attainment Plan to identify possible new actions to further reduce emissions. Initially adopted in 1992, the Regional Air Quality Strategy (RAQS) identifies measures to reduce emissions from sources regulated by the SDAPCD, primarily stationary sources such as industrial operations and manufacturing facilities. The RAQS is periodically updated to reflect updated information on air quality, emission trends, and new feasible control measures, and was last updated in 2023 (SDAPCD 2023). These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and CARB, and the emissions and reduction strategies related to mobile sources are considered in the Attainment Plan, RAQS, and SIP.

2.1.4.2 San Diego County Air Pollution Control District Rules and Regulations

Future development pursuant to the project would be required to comply with SDAPCD Rules and Regulations which require the incorporation of best management practices during construction to reduce emissions of fugitive dust.

Rule 50 (Visible Emissions)

Particulate matter pollution impacts the environment by decreasing visibility (haze). These particles vary greatly in shape, size, and chemical composition, and come from a variety of natural and human-made sources. Some haze-causing particles are directly emitted to the air such as windblown dust and soot. Others are formed in the air from the chemical transformation of gaseous pollutants (e.g., sulfates, nitrates, organic carbon particles) which are the major constituents of $PM_{2.5}$. These fine particles, caused largely by combustion of fuel, can travel hundreds of miles causing visibility impairment.

Visibility reduction is probably the most apparent symptom of air pollution. Visibility degradation is caused by the absorption and scattering of light by particles and gases in the atmosphere before it reaches the observer. As the number of fine particles increases, more light is absorbed and scattered, resulting in less clarity, color, and visual range. Light absorption by gases and particles is sometimes the cause of discolorations in the atmosphere but usually does not contribute very significantly to visibility

degradation. Scattering by particulates impairs visibility much more readily. SDAPCD Rule 50 (Visible Emissions) sets emission limits based on the apparent density or opacity of the emissions using the Ringelmann scale (SDAPCD 1997).

Rule 51 (Nuisance)

SDAPCD Rule 51 (Nuisance) states that a person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public or which endanger the comfort, repose, health or safety of any such persons or the public or which cause or have a natural tendency to cause injury or damage to business or property. The provisions of the rule do not apply to odors emanating from agricultural operations in the growing of crops or raising of fowls or animals (SDAPCD 1976)

Rule 55 (Fugitive Dust Control)

SDAPCD Rule 55 (Fugitive Dust Control) requires action be taken to limit dust from construction and demolition activities from leaving the property line. Similar to Rule 50 (Visible Emissions), Rule 55 (Fugitive Dust Control) places limits on the amount of visible dust emissions in the atmosphere beyond the property line. It further stipulates that visible dust on roadways as a result of track-out/carry-out shall be minimized through implementation of control measures and removed at the conclusion of each workday using street sweepers (SDAPCD 2009).

Rule 67.0.1 (Architectural Coatings)

Project construction would be required to comply with the SDAPCD Rule 67.0.1 (Architectural Coatings). Effective January 1, 2022, Rule 67.0.1 requires general flat and non-flat coatings (e.g., paint) to have 50 grams per liter (g/L) or less VOC content and traffic-marking coatings to have 100 g/L or less VOC content (SDAPCD 2021a).

2.2 GREENHOUSE GAS EMISSIONS

2.2.1 Climate Change Overview

Global climate change refers to changes in average climatic conditions on Earth as a whole, including temperature, wind patterns, precipitation, and storms. Global temperatures are moderated by naturally occurring atmospheric gases. These gases are commonly referred to as GHGs because they function like a greenhouse by letting light in but preventing heat from escaping, thus warming the Earth's atmosphere. These gases allow solar radiation (sunlight) into the Earth's atmosphere but prevent radiative heat from escaping, thus warming the Earth's atmosphere. GHGs are emitted by natural processes and human (anthropogenic) activities. Anthropogenic GHG emissions are primarily associated with (1) the burning of fossil fuels during motorized transport, electricity generation, natural gas consumption, industrial activity, manufacturing, and other activities; (2) deforestation; (3) agricultural activity; and (4) solid waste decomposition.

The temperature record shows a decades-long trend of warming, with the 10 most recent years as the warmest on record and 2024 global surface temperatures as the warmest year on record since 1880 (National Aeronautics and Space Administration [NASA] 2025). Global temperature data show 2024 as the warmest year on record with an increase of 2.3 degrees Fahrenheit (°F) compared to the 1951-1980

average (NASA 2025). GHG emissions from human activities are the most significant driver of observed climate change since the mid-twentieth century (United Nations Intergovernmental Panel on Climate Change [IPCC] 2013). The IPCC constructed several emission trajectories of GHGs needed to stabilize global temperatures and climate change impacts. The statistical models show a "high confidence" that temperature increase caused by anthropogenic GHG emissions could be kept to less than two degrees Celsius relative to pre-industrial levels if atmospheric concentrations are stabilized at about 450 parts per million (ppm) carbon dioxide equivalent (CO_2e) by the year 2100 (IPCC 2014).

2.2.2 Greenhouse Gases

The GHGs, as defined under California's Assembly Bill (AB) 32, include carbon dioxide (CO_2), methane (CH_4), nitrous oxide (N_2O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF_6). Although water vapor is the most abundant and variable GHG in the atmosphere, it is not considered a pollutant; it maintains a climate necessary for life.

Carbon Dioxide. CO_2 is the most important and common anthropogenic GHG. CO_2 is an odorless, colorless GHG. Natural sources include the decomposition of dead organic matter; respiration of bacteria, plants, animals, and fungi; evaporation from oceans; and volcanic outgassing. Anthropogenic sources of CO_2 include burning fuels, such as coal, oil, natural gas, and wood. Data from ice cores indicate that CO_2 concentrations remained steady prior to the current period for approximately 10,000 years. The atmospheric CO_2 concentration in 2010 was 390 ppm, 39 percent above the concentration at the start of the Industrial Revolution (approximately 280 ppm in 1750). As of December 2025, the CO_2 concentration was 427 ppm, more than a 52 percent increase since 1750 (National Oceanic and Atmospheric Administration [NOAA] 2025).

Methane. CH_4 is a gas and is the main component of natural gas used in homes. A natural source of methane is from the decay of organic matter. Geological deposits known as natural gas fields contain methane, which is extracted for fuel. Other sources are from decay of organic material in landfills, fermentation of manure, and cattle digestion.

Nitrous Oxide. N_2O is produced by both natural and human-related sources. N_2O is emitted during agricultural and industrial activities, as well as during combustion of fossil fuels and solid waste. Primary human-related sources of N_2O are agricultural soil management, animal manure management, sewage treatment, mobile and stationary combustion of fossil fuel, adipic (fatty) acid production, and nitric acid production.

Fluorocarbons. Fluorocarbons are gases formed synthetically by replacing all hydrogen atoms in methane or ethane with chlorine and/or fluorine atoms. Chlorofluorocarbons (CFCs) are nontoxic, nonflammable, insoluble, and chemically nonreactive in the troposphere (the level of air at Earth's surface). CFCs were first synthesized in 1928 for use as refrigerants, aerosol propellants, and cleaning solvents. They destroy stratospheric ozone; therefore, their production was stopped as required by the Montreal Protocol.

Sulfur Hexafluoride. SF_6 is an inorganic, odorless, colorless, nontoxic, nonflammable gas. SF_6 is used for insulation in electric power transmission and distribution equipment, in the magnesium industry, in semi-conductor manufacturing, and as a tracer gas for leak detection.

GHGs have long atmospheric lifetimes that range from one year to several thousand years. Long atmospheric lifetimes allow for GHG emissions to disperse around the globe. Because GHG emissions

vary widely in the power of their climatic effects, climate scientists have established a unit called global warming potential (GWP). The GWP of a gas is a measure of both potency and lifespan in the atmosphere as compared to CO_2. For example, a gas with a GWP of 10 is 10 times more potent than CO_2 over 100 years. CO_2e is a quantity that enables all GHG emissions to be considered as a group despite their varying GWP. The GWP of each GHG is multiplied by the prevalence of that gas to produce CO_2e.

Historically, GHG emission inventories have been calculated using the GWPs from the IPCC's Second Assessment Report. In 2007, IPCC updated the GWP values based on the latest science at the time in its Fourth Assessment Report (AR4). The updated GWPs in the IPCC AR4 have begun to be used in recent GHG emissions inventories. In 2013 and 2021, IPCC again updated the GWP values based on the latest science in its Fifth Assessment Report (AR5) (IPCC 2013) and Sixth Assessment Report (IPCC 2021), respectively. However, the United Nations Framework Convention on Climate Change (UNFCCC) reporting guidelines for national inventories require the use of GWP values from the AR4. To comply with international reporting standards under the UNFCCC, official emission estimates for California and the U.S. are reported using AR4 GWP values, and statewide and national GHG inventories have not yet updated their GWP values to the AR5 values. GHG emissions in this analysis are reported using the AR4 GWP values.

By applying the GWP ratios, CO_2e emissions can be tabulated in metric tons per year. Typically, the GWP ratio corresponding to the warming potential of CO_2 over a 100-year period is used as a baseline. The atmospheric lifetime and GWP of selected GHGs are summarized in Table 4, *Global Warming Potentials and Atmospheric Lifetimes*.

Table 4
GLOBAL WARMING POTENTIALS AND ATMOSPHERIC LIFETIMES

Greenhouse Gas	Atmospheric Lifetime (years)	Global Warming Potential (100-year time horizon)
Carbon Dioxide (CO_2)	50-200	1
Methane (CH_4)	12	25
Nitrous Oxide (N_2O)	114	298
HFC-134a	14	1,430
PFC: Tetrafluoromethane (CF_4)	50,000	7,390
PFC: Hexafluoroethane (C_2F_6)	10,000	12,200
Sulfur Hexafluoride (SF_6)	3,200	22,800

Source: IPCC 2007
HFC = hydrofluorocarbon; PFC = perfluorocarbon

2.2.3 Federal Greenhouse Gas Regulations

2.2.3.1 Federal Clean Air Act

The U.S. Supreme Court ruled on April 2, 2007, in *Massachusetts v. U.S. Environmental Protection Agency* that CO_2 is an air pollutant, as defined under the CAA, and that the USEPA has the authority to regulate emissions of GHGs. The USEPA announced that GHGs (including CO_2, CH_4, N_2O, HFC, PFC, and SF_6) threaten the public health and welfare of the American people (USEPA 2024d). This action was a prerequisite to finalizing the USEPA's GHG emissions standards for light-duty vehicles, which were jointly proposed by the USEPA and the U.S. Department of Transportation's National Highway Traffic Safety Administration (NHTSA).

On June 30, 2022, the U.S. Supreme Court decision published in *West Virginia v. U.S. Environmental Protection Agency* overturned the USEPA's Clean Power Plan rule which cited Section 111(d) of the CAA for authority to set limits on CO_2 emissions from existing coal- and natural-gas-fired power plants. The June 30, 2022, decision does not overturn the April 2, 2007, decision; however, it may limit the USEPA's authority to develop rules limiting GHG emissions without clear congressional authorization.

2.2.3.2 Light-Duty Vehicle Greenhouse Gas Emissions Standards and Corporate Average Fuel Economy Standards

The USEPA and the NHTSA worked together on developing a national program of regulations to reduce GHG emissions and improve fuel economy of light-duty vehicles. The USEPA established the first-ever national GHG emissions standards under the CAA, and the NHTSA established Corporate Average Fuel Economy (CAFE) standards under the Energy Policy and Conservation Act. On April 1, 2010, the USEPA and NHTSA announced a joint Final Rulemaking that established standards for 2012 through 2016 model year vehicles. This was followed up on October 15, 2012, when the agencies issued a Final Rulemaking with standards for model years 2017 through 2025.

2.2.4 California Greenhouse Gas Regulations

There are numerous state plans, policies, regulations, and laws related to GHG emissions and global climate change. Following is a discussion of some of these plans, policies, and regulations that (1) establish overall state policies and GHG emission reduction targets; (2) require state or local actions that result in direct or indirect GHG emission reductions for the proposed project; and (3) require CEQA analysis of GHG emissions.

2.2.4.1 California Energy Code

CCR Title 24 Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings were first established in 1978 in response to a legislative mandate to reduce California's energy consumption. Energy-efficient buildings require less electricity, natural gas, and other fuels. Electricity production from fossil fuels and on-site fuel combustion (typically for space or water heating) results in GHG emissions.

The Title 24 standards are updated approximately every three years to allow consideration and possible incorporation of new energy efficiency technologies and methods. The 2022 Title 24 standards became effective on January 1, 2023. The 2022 update to the Building Energy Efficiency Standards focuses on several key areas to improve the energy efficiency of newly constructed buildings and additions and alterations to existing buildings. New for the 2022 Title 24 standards are non-residential on-site photovoltaic (solar panels) electricity generation and storage requirements and electrification requirements for appliances and heating technologies (California Energy Commission [CEC] 2022).

The standards are divided into three basic sets. First, there is a basic set of mandatory requirements that apply to all buildings. Second, there is a set of performance standards—the energy budgets—that vary by climate zone (of which there are 16 in California) and building type; thus, the standards are tailored to local conditions. Finally, the third set constitutes an alternative to the performance standards, which is a set of prescriptive packages that are basically a recipe or a checklist compliance approach.

2.2.4.2 California Green Building Standards Code

The California Green Building Standards Code (CALGreen; CCR Title 24, Part 11) is a code with mandatory requirements for all nonresidential buildings (including industrial buildings) and residential buildings for which no other state agency has authority to adopt green building standards. The 2022 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings went into effect on January 1, 2023 (California Building Standards Commission [CBSC] 2022).

The development of CALGreen is intended to (1) cause a reduction in GHG emissions from buildings; (2) promote environmentally responsible, cost-effective, healthier places to live and work; (3) reduce energy and water consumption; and (4) respond to the directives by the Governor. In short, the code is established to reduce construction waste; make buildings more efficient in the use of materials and energy; and reduce environmental impact during and after construction. The 2022 CALGreen Code improves upon the 2019 CALGreen Code by updating standards for bicycle parking, electric vehicle (EV) charging, and water efficiency and conservation. The 2022 standards encourage efficient electric heat pumps, establish electric-ready requirements for new homes, expand solar photovoltaic and battery storage standards, strengthen ventilation standards, and more.

CALGreen contains requirements for storm water control during construction, construction waste reduction, indoor water use reduction, material selection, natural resource conservation, site irrigation conservation, and more. The code provides for design options allowing the designer to determine how best to achieve compliance for a given site or building condition. The code also requires building commissioning, which is a process for the verification that all building systems, like heating and cooling equipment and lighting systems, are functioning at their maximum efficiency.

2.2.4.3 Executive Order S-3-05

On June 1, 2005, Executive Order (EO) S-3-05 proclaimed that California is vulnerable to climate change impacts. It declared that increased temperatures could reduce snowpack in the Sierra Nevada, further exacerbate California's air quality problems, and potentially cause a rise in sea levels. To avoid or reduce climate change impacts, EO S-3-05 calls for a reduction in GHG emissions to year 2000 levels by 2010, to year 1990 levels by 2020, and to 80 percent below 1990 levels by 2050.

2.2.4.4 Assembly Bill 32 – Global Warming Solution Act of 2006

The California Global Warming Solutions Act of 2006, widely known as AB 32, requires that CARB develop and enforce regulations for the reporting and verification of statewide GHG emissions. CARB is directed by AB 32 to set a GHG emission limit, based on 1990 levels, to be achieved by 2020. The bill requires CARB to adopt rules and regulations in an open public process to achieve the maximum technologically feasible and cost-effective GHG emission reductions.

2.2.4.5 Executive Order B-30-15

On April 29, 2015, EO B-30-15 established a California GHG emission reduction target of 40 percent below 1990 levels by 2030. The EO aligns California's GHG emission reduction targets with those of leading international governments, including the 28-nation European Union. California met the target of reducing GHGs emissions to 1990 levels by 2020, as established in AB 32. California's new emission reduction target of 40 percent below 1990 levels by 2030 will make it possible to reach the goal established by EO S-3-05 of reducing emissions 80 percent under 1990 levels by 2050.

2.2.4.6 Senate Bill 32

Senate Bill (SB) 32 (Amendments to the California Global Warming Solutions Action of 2006) extends California's GHG reduction programs beyond 2020. SB 32 amended the Health and Safety Code to include Section 38566, which contains language to authorize CARB to achieve a statewide GHG emission reduction of at least 40 percent below 1990 levels by no later than December 31, 2030. SB 32 codified the targets established by EO B-30-15 for 2030, which set the next interim step in the state's continuing efforts to pursue the long-term target expressed in EO B-30-15 of 80 percent below 1990 emissions levels by 2050.

2.2.4.7 Assembly Bill 197

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

2.2.4.8 Assembly Bill 1493 – Vehicular Emissions of Greenhouse Gases

AB 1493 (Pavley) requires that CARB develop and adopt regulations that achieve "the maximum feasible reduction of GHGs emitted by passenger vehicles and light-duty truck and other vehicles determined by CARB to be vehicles whose primary use is noncommercial personal transportation in the state." On September 24, 2009, CARB adopted amendments to the Pavley regulations that intend to reduce GHG emissions in new passenger vehicles from 2009 through 2016. The amendments bind California's enforcement of AB 1493 (starting in 2009), while providing vehicle manufacturers with new compliance flexibility. In January 2012, CARB approved a new emissions-control program for model years 2017 through 2025. The program combines the control of smog, soot, and global warming gases and requirements for greater numbers of zero-emission vehicles into a single packet of standards called Advanced Clean Cars (CARB 2024d).

2.2.4.9 Assembly Bill 341

The state legislature enacted AB 341 (California Public Resource Code Section 42649.2), increasing the diversion target to 75 percent statewide. AB 341 requires all businesses and public entities that generate 4 cubic yards (CY) or more of waste per week to have a recycling program in place. The final regulation was approved by the Office of Administrative Law on May 7, 2012, and went into effect on July 1, 2012.

2.2.4.10 Executive Order S-01-07

This EO, signed by Governor Schwarzenegger on January 18, 2007, directs that a statewide goal be established to reduce the carbon intensity of California's transportation fuels by at least 10 percent by the year 2020. It orders that a Low Carbon Fuel Standard (LCFS) for transportation fuels be established for California and directs CARB to determine whether a LCFS can be adopted as a discrete early action measure pursuant to AB 32. CARB approved the LCFS as a discrete early action item with a regulation adopted and implemented in April 2010. Although challenged in 2011, the Ninth Circuit reversed the District Court's opinion and rejected arguments that implementing LCFS violates the interstate commerce clause in September 2013. CARB is therefore continuing to implement the LCFS statewide.

2.2.4.11 Senate Bill 350

Approved by Governor Brown on October 7, 2015, SB 350 increases California's renewable electricity procurement goal from 33 percent by 2020 to 50 percent by 2030. This will increase the use of Renewables Portfolio Standard eligible resources, including solar, wind, biomass, and geothermal. In addition, large utilities are required to develop and submit Integrated Resource Plans to detail how each entity will meet their customers resource needs, reduce GHG emissions, and increase the use of clean energy.

2.2.4.12 Senate Bill 375

SB 375, the Sustainable Communities and Climate Protection Act of 2008, supports the state's climate action goals to reduce GHG emissions through coordinated transportation and land use planning with the goal of more sustainable communities. Under the Sustainable Communities Act, CARB sets regional targets for GHG emissions reductions from passenger vehicle use. In 2010, CARB established these targets for 2020 and 2035 for each region covered by one of the state's metropolitan planning organizations (MPOs). CARB periodically reviews and updates the targets, as needed.

Each of California's MPOs must prepare a Sustainable Communities Strategy (SCS) as an integral part of its regional transportation plan (RTP). The SCS contains land use, housing, and transportation strategies that, if implemented, would allow the region to meet its GHG emission reduction targets. Once adopted by the MPO, the RTP/SCS guides the transportation policies and investments for the region. CARB must review the adopted SCS to confirm and accept the MPO's determination that the SCS, if implemented, would meet the regional GHG targets. If the combination of measures in the SCS would not meet the regional targets, the MPO must prepare a separate alternative planning strategy (APS) to meet the targets. The APS is not a part of the RTP. Qualified projects consistent with an approved SCS or APS categorized as "transit priority projects" would receive incentives to streamline CEQA processing.

2.2.4.13 Senate Bill 100

Approved by Governor Brown on September 10, 2018, SB 100 extends the renewable electricity procurement goals and requirements of SB 350. SB 100 requires that all retail sales of electricity to California end-use customers be procured from 100 percent eligible renewable energy resources and zero-carbon resources by the end of 2045.

2.2.4.14 Executive Order N-79-20

EO N-79-20, signed by Governor Newsom on September 23, 2020, establishes three goals for the implementation of zero emissions vehicles in California: first, 100 percent of in-state sales of new passenger cars and trucks will be zero-emissions by 2035; second, 100 percent of medium- and heavy-duty vehicles in the state will be zero-emissions vehicles by 2045 for all operations where feasible, and by 2035 for drayage trucks; and third, 100 percent of off-road vehicles and equipment will be zero emissions by 2035 where feasible.

2.2.4.15 Assembly Bill 1279

Approved by Governor Newsom on September 16, 2022, AB 1279, the California Climate Crisis Act, declares the policy of the state to achieve net zero GHG emissions as soon as possible, but no later than 2045, and achieve and maintain net negative GHG emissions thereafter, and to ensure that, by 2045,

statewide anthropogenic GHG emissions are reduced to at least 85 percent below the 1990 levels. AB 1279 anticipates achieving these policies through direct GHG emissions reductions, removal of CO_2 from the atmosphere (carbon capture), and an almost complete transition away from fossil fuels.

2.2.4.16 Senate Bill 905

Approved by Governor Newsom on September 16, 2022, SB 905, Carbon Sequestration: Carbon Capture, Removal, Utilization, and Storage Program, requires CARB to establish a Carbon Capture, Removal, Utilization, and Storage Program to evaluate the efficacy, safety, and viability of carbon capture, utilization, or storage technologies and CO_2 removal technologies and facilitate the capture and sequestration of CO_2 from those technologies, where appropriate. SB 905 is an integral part of achieving the state policies mandated in AB 1279.

2.2.4.17 California Air Resources Board: Scoping Plan

The Scoping Plan is a strategy CARB develops and updates at least once every five years, as required by AB 32. It lays out the transformations needed across California's society and economy to reduce emissions and reach climate targets. The current 2022 Scoping Plan is the third update to the original plan that was adopted in 2008. The initial 2008 Scoping Plan laid out a path to achieve the AB 32 mandate of returning to 1990 levels of GHG emissions by 2020, a reduction of approximately 15 percent below business as usual. The 2008 Scoping Plan included a mix of incentives, regulations, and carbon pricing, laying out the portfolio approach to addressing climate change and clearly making the case for using multiple tools to meet California's GHG emission targets. The 2013 Scoping Plan assessed progress toward achieving the 2020 mandate and made the case for addressing short-lived climate pollutants (SLCPs). The 2017 Scoping Plan also assessed the progress toward achieving the 2020 limit and provided a technologically feasible and cost-effective path to achieving the SB 32 mandate of reducing GHGs by at least 40 percent below 1990 levels by 2030.

On December 15, 2022, CARB approved the 2022 Scoping Plan for Achieving Carbon Neutrality (2022 Scoping Plan). The 2022 Scoping Plan lays out a path to achieve targets for carbon neutrality and reduce anthropogenic GHG emissions by 85 percent below 1990 levels no later than 2045, as directed by Assembly Bill 1279. The actions and outcomes in the plan will achieve significant reductions in fossil fuel combustion by deploying clean technologies and fuels; further reductions in SLCPs; support for sustainable development; increased action on natural and working lands to reduce emissions and sequester carbon; and the capture and storage of carbon (CARB 2022).

2.2.5 Local Greenhouse Gas Plans

2.2.5.1 San Diego Association of Governments San Diego Forward: The Regional Plan

SANDAG's 2021 Regional Plan (Regional Plan) is the long-range planning document developed to address the region's housing, economic, transportation, environmental, and overall quality-of-life needs. The underlying purpose is to provide direction and guidance on future regional growth (i.e., the location of new residential and non-residential land uses) and transportation patterns throughout the region. The 2021 Regional Plan is a 30-year plan that considers how the community will grow, where residents will live, and how residents and visitors will move around the region. It combines the RTP, SCS, and Regional Comprehensive Plan. As such, the 2021 Regional Plan must comply with specific state and federal mandates. These include an SCS, per SB 375, that achieves GHG emissions reduction targets set

by the CARB; compliance with federal civil rights requirements (Title VI); environmental justice considerations; air quality conformity; and public participation (SANDAG 2021).

2.2.5.2 City of Escondido Climate Action Plan

The City's Climate Action Plan (CAP) provides a comprehensive roadmap to address the challenges of climate change in the City. The CAP aims to address climate change by reducing GHG emissions from activities within the City, and by identifying threats and strategies for adapting to adverse environmental conditions caused by climate change. The City adopted a CAP in 2013. The 2013 CAP detailed the City's first communitywide GHG inventories for 2005 and 2010, which provided baseline emissions data from which future GHG emissions were estimated and reduction measures were developed. The City's CAP was updated in March 2021. The updated CAP includes a new baseline GHG inventory for the year 2012, new projections of GHG emissions through 2035, and new GHG emissions targets to reduce citywide GHG emissions to 42 percent below 2012 levels by 2030, and 52 percent below 2012 levels by 2035 (City 2021a). The City's CAP is a qualified GHG reduction plan consistent with CEQA Guidelines Section 15183.5. Development projects consistent with an applicable local qualified GHG reduction plan are eligible for streamlined GHG analysis. The 2021 CAP includes a CAP Consistency Review Checklist for streamlined review of a project's consistency with the CAP. The CAP Checklist review process is described further in Section 4.2.2 and Section 6.1.

3.0 EXISTING CONDITIONS

3.1 CLIMATE AND METEOROLOGY

The climate in southern California, including the SDAB, is controlled largely by the large-scale meteorological condition that dominates the west coast of the United States: a seasonally semi-permanent high-pressure cell centered over the northeastern Pacific Ocean, called the Pacific high, which keeps most storms from affecting the California coast. Areas within 30 miles of the coast in the San Diego region, including the project site, experience moderate temperatures and comfortable humidity.

Temperature inversion layers (inversions; layers of warmer air over colder air) affect air quality conditions significantly because they influence the mixing depth (i.e., the vertical depth in the atmosphere available for diluting air contaminants near the ground). The highest air pollutant concentrations in the SDAB generally occur during inversions. During the summer, air quality problems in the SDAB are created due to the interaction between the ocean surface and the lower layer of the atmosphere, creating a moist marine layer. An upper layer of warm air mass forms over the cool marine layer, preventing air pollutants from dispersing upward. Additionally, hydrocarbons and NO_2 react under the strong, abundant sunlight in the San Diego region, creating smog. Light, daytime winds, predominantly from the west, further aggravate the condition by driving the air pollutants inland, toward the foothills. During the fall and winter, air quality problems are created due to CO and NO_2 emissions. High NO_2 levels usually occur during autumn or winter, on days with summer-like conditions.

The predominant wind direction in the vicinity of the project site is from the west and the average wind speed is approximately 4.9 miles per hour (mph; Iowa Environmental Mesonet 2023). The annual average maximum temperature in the project area is approximately 75°F, and the annual average minimum temperature is approximately 52°F. Total precipitation in the project area averages

approximately 13 inches annually. Precipitation occurs mostly during the winter and relatively infrequently during the summer (Western Regional Climate Center 2024).

3.2 EXISTING SITE CONDITIONS

The project site is currently occupied by a 24,395 SF church building, two school buildings totaling 14,946 SF, and a 2,062 SF parking lot, as well as a grass field surrounding these developed uses. Ornamental landscaping including trees of undetermined species also occurs on the project site.

3.3 SENSITIVE RECEPTORS

CARB and the Office of Environmental Health Hazard Assessment (OEHHA) have identified the following groups of individuals as the most likely to be affected by air pollution: the elderly over 65, children under 14, infants (including in utero in the third trimester of pregnancy), and persons with cardiovascular and chronic respiratory diseases such as asthma, emphysema, and bronchitis (CARB 2005; OEHHA 2015). Some land uses are considered more sensitive to air pollution than others due to the types of population groups or activities involved and are referred to as sensitive receptors. Examples of these sensitive receptors are residences, schools, hospitals, and daycare centers.

The closest existing sensitive receptors to the project site are Miller Elementary School located approximately 200 feet northeast of the project site and the single-family homes surrounding the project site. Additionally, as a residential development, the residential portion of the project would be considered a new sensitive receptor. Similarly, the existing school to remain on the site is a sensitive receptor within the project site; however, it would not be operational during construction of the project.

3.4 EXISTING AIR QUALITY

3.4.1 Attainment Designations

Attainment designations are discussed in Section 2.1 and Table 3. The SDAB, including the project site, is a federal and state nonattainment area for ozone and a state nonattainment area for PM_{10} and $PM_{2.5}$.

3.4.2 Monitored Air Quality

The SDAPCD operates a network of ambient air monitoring stations throughout the San Diego region. The purpose of the monitoring stations is to measure ambient concentrations of criteria air pollutants and determine whether the ambient air quality meets state and federal standards, pursuant to the CAAQS and the NAAQS. The nearest ambient monitoring station to the project site is the Rancho Carmel Drive monitoring station located approximately 8.4 miles south of the project site. However, the Rancho Carmel Drive monitoring station only has data from the last three years for $PM_{2.5}$ and NO_2 concentrations. The San Diego-Kearny Villa Road monitoring station (approximately 17 miles south of the project site) has data for ozone concentrations. There are no monitoring stations in San Diego County with data for PM_{10} in the last three years. Air quality data collected at these monitoring stations for the years 2022 through 2024 are shown in Table 5, *Air Quality Monitoring Data*.

Table 5
AIR QUALITY MONITORING DATA

Pollutant Standard	2022	2023	2024
Ozone (O_3) – Kearny Villa Road			
Maximum concentration 1-hour period (ppm)	0.095	0.091	0.112
Maximum concentration 8-hour period (ppm)	0.083	0.079	0.080
Days above 1-hour state standard (>0.09 ppm)	1	0	2
Days above 8-hour state/federal standard (>0.070 ppm)	2	3	3
Fine Particulate Matter ($PM_{2.5}$) – Rancho Carmel			
Maximum 24-hour concentration (µg/m^3)	14.9	23.2	21.4
Measured Days above 24-hour federal standard (>35 µg/m^3)	0	0	0
Annual average (µg/m^3)	7.6	6.9	7.7
Exceed state and federal annual standard (12 µg/m^3)	No	No	No
Nitrogen Dioxide (NO_2) – Rancho Carmel			
Maximum 1-hour concentration (ppm)	0.056	0.053	0.051
Days above state 1-hour standard (0.18 ppm)	0	0	0
Days above federal 1-hour standard (0.100 ppm)	0	0	0
Annual average (ppm)	0.015	0.013	0.013
Exceed annual federal standard (0.053 ppm)	No	No	No
Exceed annual state standard (0.030 ppm)	No	No	No

Source: CARB 2026a
ppb = parts per billion; ppm = parts per million; µg/m^3 = micrograms per cubic meter.

As shown in Table 5, monitoring data for the 1-hour state ozone standard at the Kearny Villa Road station reported one exceedance in 2022, no exceedances in 2023, and two exceedances in 2024. Monitoring data at the Kearny Villa Road station exceeded the 8-hour state/federal ozone standard on two days in 2022 and on 3 days in 2023 and 2024. The Rancho Carmel Drive station reported no exceedances of the federal standard for $PM_{2.5}$ in 2022 through 2024, and the annual $PM_{2.5}$ concentration standards were not exceeded during this period. No exceedances of the state or federal standards for NO_2 occurred from 2022 to 2024 (CARB 2026a).

3.5 EXISTING GREENHOUSE GAS INVENTORIES

3.5.1 Worldwide and National Greenhouse Gas Inventory

In 2023, total anthropogenic GHG emissions worldwide were estimated at 49,100 million metric tons (MMT) of CO_2e emissions (Climate Watch 2026). The five largest emitting countries and the European Union (EU-27), together account for about 60 percent of total global GHG emissions: China (31 percent), the United States (13 percent), the European Union (about 8 percent), India (4 percent), the Russian Federation (2.5 percent) and Japan (2.2 percent). These countries also have the highest CO_2 emission levels (Climate Watch 2026).

Per the USEPA Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2022, total United States GHG emissions were approximately 6,343 MMT CO_2e in 2022 (USEPA 2024e). The primary GHG emitted by human activities in the United States was CO_2, which represented approximately 79.7 percent of total GHG emissions (5,053 MMT CO_2e). The largest source of CO_2, and of overall GHG emissions, was fossil-fuel combustion, which accounted for approximately 93 percent of CO_2 emissions in 2022 (4,699 MMT CO_2e). Relative to 1990, gross United States GHG emissions in 2022 were lower by 3.0 percent, down from a high of 15.2 percent above 1990 levels in 2007. From 2021 to 2022, gross emissions increased by

0.2 percent (14.4 MMT CO_2e) and net emissions increased by 1.3 percent but decreased by 16.7 percent from 2005 levels. The increase in GHG emissions from 2021 to 2022 was driven largely by increased CO_2 fossil fuel combustion emissions across most end-use sectors due in part to increased energy use from the continued rebound of economic activity after the height of the COVID-19 pandemic (USEPA 2024e).

3.5.2 State Greenhouse Gas Inventory

CARB performed statewide inventories for the years 2000 to 2023, as shown in Table 6, *California Greenhouse Gas Emissions by Sector*. The inventory is divided into five broad sectors of economic activity: agriculture, commercial and residential, electricity generation, industrial, and transportation.

Table 6
CALIFORNIA GREENHOUSE GAS EMISSIONS BY SECTOR

Sector	Emissions (MMT CO_2e)			
	2000	**2010**	**2020**	**2023**
Agriculture and Forestry	32.3 (7%)	33.7 (8%)	31.5 (9%)	29.2 (8%)
Commercial and Residential	44.8 (10%)	46.3 (11%)	42.0 (11%)	43.3 (12%)
Electricity Generation	104.7 (23%)	90.3 (21%)	59.5 (16%)	57.2 (16%)
Industrial	86.6 (19%)	82.4 (19%)	71.1 (19%)	66.9 (19%)
Transportation	176.5 (38%)	161.9 (37%)	135.5 (37%)	133.7 (37%)
Unspecified Remaining	13.7 (3%)	21.7 (5%)	29.7 (8%)	30.0 (8%)
TOTAL	**458.6**	**436.3**	**369.3**	**360.3**

Source: CARB 2026b
MMT = million metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 6, statewide GHG emissions totaled 458.6 MMT CO_2e in 2000, 436.3 MMT CO_2e in 2010, 369.3 MMT CO_2e in 2020, and 360.3 MMT CO_2e in 2023. Transportation-related emissions consistently contribute the most GHG emissions, followed by electricity generation and industrial emissions (CARB 2026b).

3.5.3 Local GHG Inventory

As part of their CAP baseline, the City compiled a GHG inventory. The CAP baseline inventory is presented in Table 7, *2012 City of Escondido Greenhouse Gas Inventory*. As shown in Table 7, the on-road transportation sector contributed the most to GHG emissions in the City in 2012.

Table 7
2012 CITY OF ESCONDIDO GREENHOUSE GAS INVENTORY

Sector	Emissions (MT CO_2e)
On-Road Transportation	498,000 (53%)
Electricity	256,000 (27%)
Natural Gas	118,000 (12%)
Off-Road Transportation	30,000 (3%)
Solid Waste	24,000 (3%)
Water	11,000 (1%)
Wastewater	6,000 (<1%)
TOTAL	**943,000**

Source: City 2021a
MT = metric tons; CO_2e = carbon dioxide equivalent

4.0 METHODOLOGY AND SIGNIFICANCE CRITERIA

4.1 METHODOLOGY

4.1.1 Criteria Pollutant and Greenhouse Gas Emissions

Criteria pollutant, precursor, and GHG emissions were calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1. CalEEMod is a computer model used to estimate air emissions resulting from land development projects throughout the state of California. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the California air quality management and pollution control districts. The calculation methodology, source of emission factors used, and default data is described in the CalEEMod User's Guide Appendices C, D, and G (CAPCOA 2022).

In brief, CalEEMod is a computer model that estimates criteria air pollutant and greenhouse gas emissions from mobile (i.e., vehicular) sources, area sources (fireplaces, woodstoves, and landscape maintenance equipment), energy use (electricity and natural gas used in space heating, ventilation, and cooling; lighting; and plug-in appliances), water use and wastewater generation, and solid waste disposal. Emissions are estimated based on land use information input to the model by the user.

In the first module, the user defines the specific land uses that will occur at the project site. The user also selects the appropriate land use setting (urban or rural), operational year, location, climate zone, and utility provider. The input land uses, size features, and population are used throughout CalEEMod in determining default parameters and calculations in each of the subsequent modules. The input land use information consists of land use subtypes (such as the residential subtypes of single-family residential and multi-family medium-rise residential) and their unit or square footage quantities.

Subsequent modules include construction (including off-road vehicle emissions), mobile (on-road vehicle emissions), area sources (architectural coatings [painting], consumer products [cleansers, aerosols, solvents]), water and wastewater, and solid waste. Each module comprises multiple components including an associated mitigation module to account for further reductions in the reported baseline calculations. Other inputs include trip generation rates, trip lengths, vehicle fleet mix (percentage autos, trucks, etc.), trip distribution (percent work to home, etc.), duration of construction activities, construction equipment usage, grading areas, season, and ambient temperature, as well as other parameters. In various places, the user can input additional information and/or override the default assumptions to account for project- or location-specific parameters. For this assessment, the default parameters were not changed unless otherwise noted. The CalEEMod output files are included in Appendix A, *CalEEMod Output*, of this report.

4.1.1.1 Construction Emissions

CalEEMod has the capability to calculate reductions in construction emissions from the effects of dust control, diesel-engine classifications, and other selected emissions reduction measures. In compliance with SDAPCD Rule 50 and Rule 55, fugitive dust emissions calculations assume application of water on exposed surfaces a minimum of two times per day. Based on CalEEMod defaults, the dust control efficiency for material movement from watering two times per day is 61 percent, and the dust control efficiency for demolition from watering two times per day is 36 percent.

CalEEMod estimates construction emissions for each year of construction activity based on the annual construction equipment profile and other factors determined as needed to complete all activities of construction by the target completion year. As such, each year of construction activity has varying quantities of GHG emissions. Per guidance from the South Coast Air Quality Management District (SCAQMD), total construction GHG emissions resulting from the project are amortized over 30 years and added to operational GHG emissions.

Construction Activities

Construction emissions were estimated based on the timeline provided by the project applicant, which assumes construction would commence on the full project site with demolition and site preparation (clearing and grubbing) in August 2026. Church construction would be complete by March 2028 and resident construction would be complete by September 2028 for a total construction period of approximately 25 months. The quantity, duration, and intensity of construction activity influence the amount of construction emissions and related pollutant concentrations that occur at any one time. As such, the emission forecasts provided herein reflect a specific set of conservative assumptions based on the expected construction scenario wherein a relatively large amount of construction activity is occurring in a relatively intensive manner. Because of this conservative assumption, actual emissions could be less than those forecasted. If construction is delayed or occurs over a longer period, emissions could be reduced because of: (1) a more modern and cleaner-burning construction equipment fleet mix than assumed in CalEEMod; and/or (2) a less intensive buildout schedule (i.e., fewer daily emissions occurring over a longer time interval).

Construction activities would include site preparation, demolition, grading, underground utility installation, building construction, paving, and architectural coatings. Paving and architectural coatings are assumed to occur during the last few months of building construction. The grading, underground utilities, and paving activities would include work within the Felicita Road and Brotherton Road ROWs. Based on estimates from the project engineer, grading would involve 71,260 CY of cut and 24,760 CY of fill on the residential portion of the site and 5,050 CY of cut and 44,400 CY of fill on the church portion of the site. After using cut material as backfill across the project site, the project would result in a net export of 7,150 CY of soil. Additionally, approximately 30 truckloads (600 tons) of debris from the residential development site and 15 truckloads (300 tons) of debris from the church site are anticipated to be hauled during demolition. During site preparation, approximately 10 truckloads (160 CY) of vegetation are anticipated to be hauled from the residential site and approximately 5 truckloads (80 CY) of vegetation are anticipated to be hauled from the church site. The construction schedule assumed in the modeling is shown in Table 8, *Anticipated Construction Schedule*.

Table 8
ANTICIPATED CONSTRUCTION SCHEDULE

Construction Activity	Construction Period Start	Construction Period End	Number of Working Days
Residential Construction			
Site Preparation	8/1/2026	8/21/2026	15
Demolition	8/1/2026	9/1/2026	22
Grading	9/2/2026	10/13/2026	30
Underground Utilities	10/15/2026	1/14/2027	66
Building Construction	1/15/2027	9/15/2028	436
Paving	4/19/2028	4/30/2028	8

Construction Activity	Construction Period Start	Construction Period End	Number of Working Days
Architectural Coatings	5/1/2028	7/31/2028	66
Church Construction			
Site Preparation	8/1/2026	8/21/2026	15
Demolition	8/1/2026	8/29/2026	20
Grading	8/20/2026	9/30/2026	30
Underground Utilities	10/1/2026	12/31/2026	66
Building Construction	1/1/2027	12/31/2027	261
Paving	12/22/2027	12/31/2027	8
Architectural Coatings	1/1/2028	3/1/2028	43

Source: CalEEMod

Construction Off-Road Equipment

Construction would require the use of heavy off-road equipment. Construction equipment estimates for site preparation, demolition, underground utilities, and grading were based on site project information provided by the project applicant. Construction equipment estimates for building construction, architectural coating, and paving were based on default values in CalEEMod. A water truck was assumed to be used on-site up to four hours per day for dust suppression during all demolition and earth moving activities. Table 9, *Construction Equipment Assumptions*, presents a summary of the assumed equipment that would be involved in each construction activity.

Table 9
CONSTRUCTION EQUIPMENT ASSUMPTIONS

Equipment	Horsepower	Residential Quantity	Church Quantity	Hours/Day
Site Preparation				
Rubber-Tired Dozers	367	1	1	8
Demolition				
Rubber-Tired Dozers	367	1	1	8
Tractors/Loaders/Backhoes	36	1	1	8
Water Truck	376	1	1	4
Grading				
Rubber-Tired Dozers	367	1	1	8
Graders	148	1	1	8
Scrapers	423	3	3	8
Water Truck	376	1	1	4
Underground Utilities				
Excavators	36	2	2	8
Tractors/Loaders/Backhoes	84	1	1	8
Water Truck	376	1	1	4
Building Construction				
Cranes	367	1	1	7
Generator Sets	14	1	1	8
Forklifts	82	3	3	8
Tractors/Loaders/Backhoes	84	3	3	7
Welders	46	1	1	8
Architectural Coating				
Air Compressors	37	1	1	6

Equipment	Horsepower	Residential Quantity	Church Quantity	Hours/Day
Paving				
Pavers	81	2	2	8
Paving Equipment	89	2	2	8
Rollers	36	2	2	8

Source: CalEEMod

Construction On-Road Trips

Worker commute trips were modeled based on CalEEMod defaults. Worker commute trips are anticipated to vary between approximately 6 and 217 trips per day, depending on construction activity. Approximately 40 vendor trips are anticipated per day during building construction (36 for residential construction, 4 for church construction), and vendor trips during other construction phases were added based on the revised recommendations for default vendor trips (Ramboll 2023). Vegetation hauling during site preparation would result in 1 one-way trip per day per site, demolition debris hauling would result in 7 one-way trips per day from residential construction and 4 one-way trips per day from church construction, and soil export hauling during grading would result in 30 one-way trips per day. Paving would require the import of asphalt and concrete estimated to include 42 one-way trips per day (166 loads) during residential development paving and 19 one-way trips per day (77 loads) during church development paving, assuming an uncompressed pavement thickness of six inches and tandem trailer truck loads. The CalEEMod default worker, vendor and haul trip distances for San Diego County were used in the model. All haul trips during site preparation, demolition, and grading assume approximately 500 feet of travel on unpaved on-site access roads.

Construction Architectural Coatings

Architectural coatings applied during construction were assumed to be building interior and exterior building coatings and pavement marking. Per CalEEMod defaults for San Diego County, all interior and exterior building coatings would have a maximum VOC content of 50 g/L and pavement marking would have a maximum VOC content of 100 g/L. These VOC content assumptions are consistent with the SDAPCD Rule 67.0.1 VOC limits, as discussed in Section 2.1.4.2.

4.1.1.2 Operation Emissions

Operational emissions were estimated using CalEEMod. Operational sources of emissions include mobile (on-road vehicles), area, energy, water and wastewater, solid waste, and refrigerants.

Vehicular (Mobile) Sources

Operational emissions from mobile source emissions are associated with project-related vehicle trip generation and trip length. Since the size of the proposed church is consistent with the existing use, only the residential development would generate a net increase in mobile source emissions; therefore, only the residential development mobile trips were considered in the modeling. Based on the trip generation rate from the Local Mobility Analysis (LMA) prepared for the project, the residential development would generate 1,548 average daily trips (ADT; Linscott, Law & Greenspan Engineers [LLG] 2025). The LMA also included a project vehicle miles traveled (VMT) analysis. With implementation of mitigation to provide additional pedestrian and bicycle facilities, the LMA concluded that the residential development would

result in a VMT of 13,247 miles per day (LLG 2025). Accordingly, the modeled trip distances were set to 8.6 miles per trip (13,247 miles divided by 1,548 trips).

Area Sources

Area sources include emissions from landscaping equipment, the use of consumer products, the reapplication of architectural coatings for maintenance, and hearths. As discussed in Section 1.2, the project would not include any natural gas fireplaces, wood fireplaces, or wood stoves. Accordingly, the number of hearths was set to zero in CalEEMod. Emissions associated with all other area sources were estimated using the CalEEMod default values.

Energy Sources

Development within the project would use electricity for lighting, heating, and cooling. Direct emissions from the burning of natural gas may result from furnaces and hot water heaters. Electricity generation typically entails the combustion of fossil fuels, including natural gas and coal, which is then transmitted to end users. Energy source emissions were estimated using CalEEMod defaults which assume implementation of energy-reducing compliance with the 2019 Title 24 standards. Default energy use assumptions for the proposed land use types were used in the model. In accordance with 2022 Title 24 requirements for multi-family buildings, the modeling for the residential development assumes the installation of on-site solar electricity generation with a capacity of 566.8 kilowatts (kW; Title 24 Part 6, Section 170.2, Equation 170.2-C and Table 170.2-T). Using the National Renewable Energy Laboratory PVWatts Calculator capacity factor, the residential development's solar panels would produce approximately 943,360 kilowatt-hours (kWh) of average annual electrical energy (National Renewable Energy Laboratory 2024). Reduction in residential electrical energy use from the required solar panels was applied in the CalEEMod Measures section using Measure E-10-B, *Establish Onsite Renewable Energy Systems: Solar Power*. A printout of the solar energy calculation sheet is included as Appendix B, *Solar Calculations*, of this report.

Water and Wastewater Sources

Water-related GHG emissions are from the energy use for the conveyance and treatment of water and wastewater. CalEEMod uses the Maximum Applied Water Allowance method established under the California Department of Water Resources' 2015 Model Water Efficient Landscape Ordinance, and indoor residential water consumption based on per capita daily water use rates from the *Residential End Uses of Water* published by the Water Research Foundation to establish default water use (CAPCOA 2022). Modeling was conducted using these defaults.

Solid Waste Sources

The disposal of solid waste produces GHG emissions from anaerobic decomposition in landfills, incineration, and transportation of waste. Portions of these emissions are biogenic. CalEEMod methods for quantifying GHG emissions from solid waste are based on the IPCC method using the degradable organic content of waste. The default waste generation rates for the proposed land use types were used in modeling.

Refrigerants

CalEEMod calculates GHG emissions associated with refrigerants (typically HFCs or blends of gases containing HFCs) which are emitted through leakage or maintenance from project refrigeration systems, freezers, and air conditioning systems. Refrigerant emissions were calculated using CalEEMod defaults.

4.1.2 Impacts to Sensitive Receptors

Potential health risks to future project residents from roadway DPM emissions were analyzed in accordance with applicable portions of the OEHHA *Air Toxics Hot Spots Program Guidance Manual for Preparation of Health Risk Assessments* (OEHHA 2015), and applicable portions of the SDAPCD's *Supplemental Guidelines for Submission of Air Toxics "Hot Spots" Program Health Risk Assessments* (SDAPCD 2022a).

4.1.2.1 TAC Emissions

Calculations of DPM emissions were based on traffic volumes described in the project LMA for the Near-Term (year 2025) + Project scenario (LLG 2025) and on SANDAG projected traffic volumes for I-15 in the project vicinity for 2025 (SANDAG 2023). Emissions of DPM from trucks were calculated using emission factors from CARB's EMFAC2021 version 1.0.2 online database (CARB 2023). Peak hour traffic volume was calculated from the ADT based on 7.6 percent of traffic during the 5 p.m. to 6 p.m. hour for San Diego region roadways (Ogden International 1986; Wyle Laboratories 1973). The DPM emissions for each source modeled are shown in Table 10, *DPM Emissions*. The DPM calculation sheet printout is included in Appendix C, *HRA Modeling Input/Output,* of this report.

Table 10
DPM EMISSIONS

Source	DPM Emissions (pounds/year)	DPM Emissions (pounds/hour)
I-15 North of West Citracado Parkway		
Northbound HOV Lanes	3.5758E+00	7.4454E-04
Northbound Lanes 1-3	2.1499E+01	4.4764E-03
Northbound Lanes 4-5	7.0791E+01	1.4740E-02
Southbound HOV Lanes	4.6407E+00	9.6628E-04
Southbound Lanes 1-2	1.7389E+01	3.6206E-03
Southbound Lanes 3-4	7.3479E+01	1.5300E-02
I-15 South of West Citracado Parkway		
Northbound HOV Lanes	3.3541E+00	6.9838E-04
Northbound Lanes 1-3	1.1819E+01	2.4610E-03
Northbound Lanes 4-5	4.0734E+01	8.4816E-03
Southbound HOV Lanes	3.3629E+00	7.0022E-04
Southbound Lanes 1-2	1.0197E+01	2.1232E-03
Southbound Lanes 3-4	4.4362E+01	9.2370E-03
I-15 Northbound On-Ramp at West Citracado Parkway	4.8184E-01	1.0033E-04
I-15 Southbound Off-Ramp at Gamble Lane	1.1094E+00	2.3100E-04
I-15 Northbound Off-Ramp at West Citracado Parkway	2.7277E-01	5.6796E-05
I-15 Southbound On-Ramp at Gamble Lane	3.4276E-01	7.1369E-05
Felicita Road		
Montview Drive to Brotherton Road	1.4330E+00	2.9837E-04

Source	DPM Emissions (pounds/year)	DPM Emissions (pounds/hour)
Brotherton Road to Project	3.5726E-01	7.4388E-05
Project to West Citracado Parkway	9.9873E-01	2.0796E-04
Miller Avenue – Brotherton Road to West Citracado Parkway	7.6204E-01	1.5867E-04
Brotherton Road		
Felicita Road to Project	1.0263E-01	2.1369E-05
Project to Miller Avenue	3.4927E-01	7.2725E-05
Gamble Lane – I-15 Ramps to Felicita Road	5.0918E-01	1.0602E-04
West Citracado Parkway		
Felicita Road to I-15 Southbound Ramps	2.2949E-01	4.7784E-05
I-15 Southbound Ramps to I-15 Northbound Ramps	7.5476E-01	1.5716E-04
I-15 Northbound Ramps to Miller Avenue	3.3077E-01	6.8872E-05

Source: Emission factors from EMFAC2021 (CARB 2023); emissions calculation sheets included in Appendix C.
DPM = diesel particulate matter; HOV = high-occupancy vehicle

4.1.2.2 Dispersion Modeling

Localized concentrations of TACs were modeled using Lakes AERMOD View version 11.2.0. The Lakes program utilizes the USEPA's AERMOD gaussian air dispersion model version 21112.

Source Parameters

Because the primary source of DPM on California urban highways is from trucks, traffic on roadway segments were modeled as line volume sources following the methodology/calculations recommended in the USEPA *Haul Road Workgroup Final Report*, using an average truck height of 13.5 feet, and average car and light truck height of 6 feet, and average roadway width estimated using aerial images (USEPA 2011). The DPM emissions were modeled as variable emissions by hour-of-day with each hour set as a percentage of average daily emissions based on studies of hourly traffic volume distribution typical of San Diego freeways (Wyle Laboratories 1973; Ogden International 1986).

Meteorological Data

Pre-processed meteorological data suitable for use with AERMOD from a station in Escondido was provided by the SDAPCD. The Escondido station set includes three years of data collected between 2010 to 2012 (SDAPCD 2022b). Because the area around the project site does not contain high-density development, rural dispersion coefficients were selected in the model. Using rural dispersion coefficients is generally conservative (health protective) compared to using urban dispersion coefficients which account for increased dispersion due to urban heat island effects and increased surface roughness.

Terrain Data

United States Geological Survey (USGS) National Elevation Dataset (NED) files with a 30-meter resolution covering an area approximately one kilometer around the project site were used in the model to cover the analysis area. Terrain data was imported to the model using AERMAP, a terrain preprocessing program for AERMOD.

Receptor Modeling

To develop risk isopleths (linear contours showing equal level of risk), receptors were placed in a cartesian grid 1,450 meters by 1,450 meters (approximately 0.9 mile by 0.9 mile), centered on the project site with a grid spacing of 50 meters (66 feet) and a receptor height (flagpole height) of 1.52 meters (5 feet) above the ground. To determine maximum pollutant concentrations (and maximum health effects) on the project site, additional receptors were placed at the project apartment outdoor spaces (e.g., patios, balconies) of exterior windows for each building floor facing I-15, Felicita Road, and West Citracado Parkway (Buildings 1, 2, 8, 9 and 10; see Figure 3). Receptors were placed at the typical average breathing height for humans: five feet above the ground or building floor (Figure 5, *Receptor Locations*).

Risk Determination

Adverse health effects resulting from localized concentrations of TACs were calculated using CARB's Hotspots Analysis and Reporting Program (HARP), Air Dispersion Modeling and Risk Tool (ADMRT) version 22118. Plot files from AERMOD using unitized emissions (one gram per second) for each TAC source were imported into the ADMRT. The ADMRT calculated ground-level concentrations of each TAC utilizing the imported plot files and the annual and hourly emissions inventories shown in Table 10. The latest cancer potency factors, non-cancer chronic Reference Exposure Limits (RELs), acute RELs, exposure paths, and target organ or system for all TACs designated by CARB are included in the ADMRT. For the residential cancer risk, an exposure duration of 30 years was selected in accordance with the OEHHA guidelines (OEHHA 2015).

The model conservatively assumes that residents would be standing and breathing outdoors at the patio, balcony, or open window every day between 17 and 21 hours per day (depending on the age group, starting with infants in utero in the third trimester of pregnancy) for 30 years. Because there is a school near the project site (Miller Elementary School), fraction of time at home adjustments were not applied to age bins for 2 to 16 years old. Tier 1 of time at home adjustments were used for other age bins: 0.85 for less than 2 years old and 0.73 for 16 years and older. The OEHHA derived intake rate percentile method was selected for residential cancer and non-cancer chronic scenarios. The modeling input and output is included in Appendix C of this report.

4.2 GUIDELINES FOR THE DETERMINATION OF SIGNIFICANCE

Thresholds used to evaluate potential air quality, odor, and GHG emissions impacts are based on applicable criteria in CEQA Guidelines Appendix G.

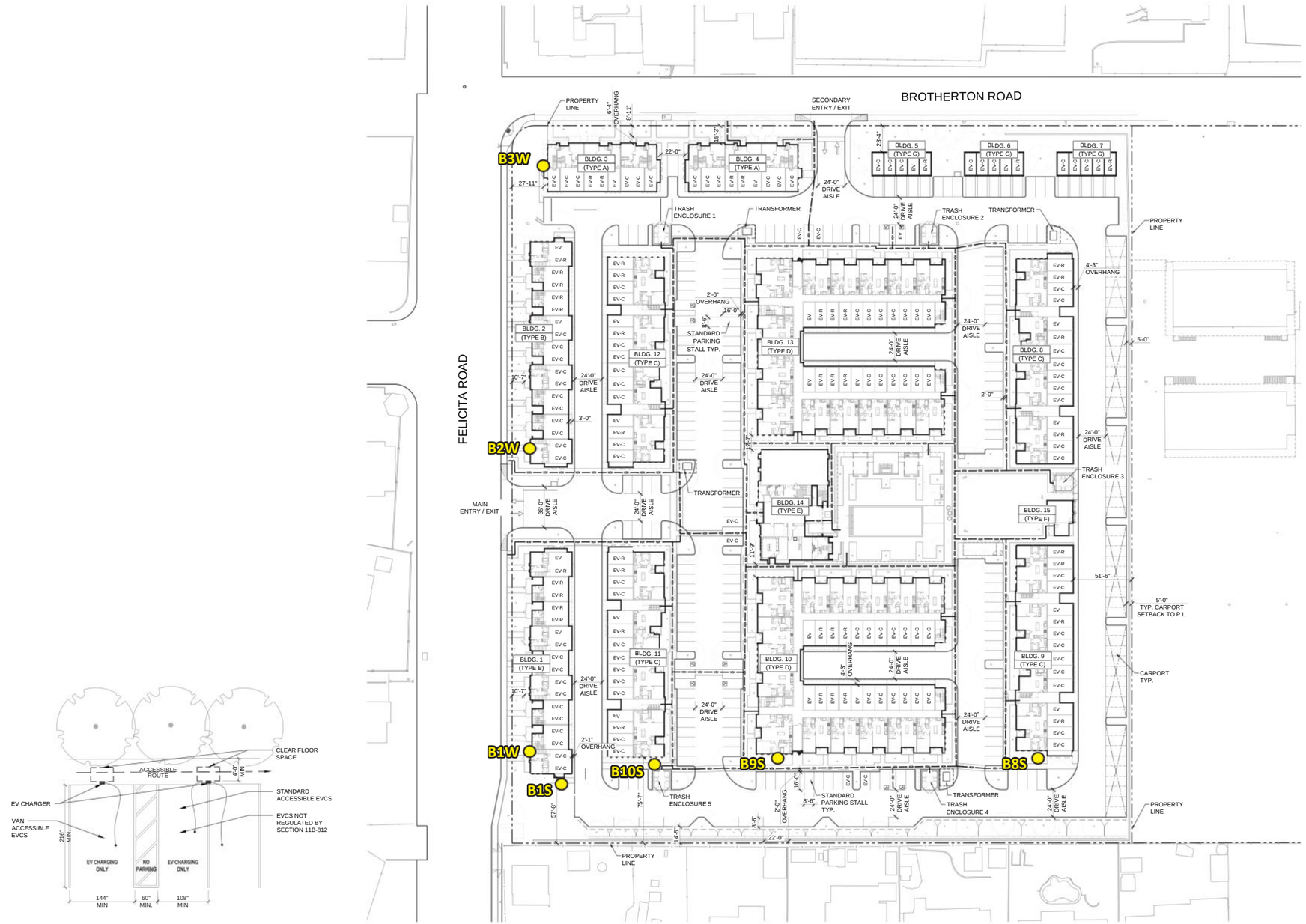
4.2.1 Air Quality Significance Criteria

A significant air quality and/or odor impact could occur if the implementation of the proposed project would:

1. Conflict with or obstruct implementation of the applicable air quality plan; or

2. Result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is nonattainment under an applicable NAAQS or CAAQS; or

3. Expose sensitive receptors to substantial pollutant concentrations; or



SITE PLAN 1

LEGEND

	PROPERTY LINE
	ADA PATH OF TRAVEL
EV-C	EV CAPABLE STALLS
EV-R	EV READY STALLS
EV	EV CHARGER STALLS
	RECEPTOR LOCATION

NOTE :

1. EXISTING OVER HEAD UTILITIES AND POLES TO BE UNDERGROUNDED, REFER TO CIVIL DRAWINGS.

TYP. EV. PARKING STATION 2

Source: adc 2024

HELIX Environmental Planning

Receptor Locations

Figure 5

4. Result in other emissions (such as those leading to odors) adversely affecting a substantial number of people.

To determine whether the project would result in a cumulatively considerable net increase of criteria pollutants and precursors, emissions were evaluated based on the quantitative emission screening levels established by the City's Environmental Quality Regulations (EQRs). The EQRs implement CEQA and the CEQA Guidelines by applying the provisions and procedures contained in CEQA to development projects proposed within the City. Included in the EQRs is City Municipal Code Chapter 33, Article 47, Section 33-924(a)(5) which establishes thresholds for projects that individually generate air quality impacts for fixed, mobile, or construction sources within the City general plan area.

The City's EQRs do not establish thresholds for the significance of impacts to sensitive receptors resulting from exposure to TACs. SDAPCD Rule 1210 establishes significant health risk thresholds for exposure of individuals to stationary source TAC emissions from a single facility (SDAPCD 2021b). Although developed for evaluation of health risk impacts for facilities with stationary sources of TACs, the thresholds established in SDAPCD Rule 1210 are informative of the magnitude of potential health risks for exposure of individual sensitive receptors to any single source of TACs and are used in this analysis as screening thresholds for potential health risks to future project residents.

The screening criteria described above were used as quantitative thresholds to determine if the project would result in a significant impact to air quality or an adverse effect on human health. The screening thresholds established by City Municipal Code Chapter 33, Article 47, Section 33-924(a)(5), and SDAPCD Rule 1210 are shown in Table 11, *Screening-Level Thresholds for Air Quality Impact Analysis*.

Table 11
SCREENING-LEVEL THRESHOLDS FOR AIR QUALITY IMPACT ANALYSIS

Pollutant	Emissions Threshold
Construction Emissions (pounds per day)	
Respirable Particulate Matter (PM_{10})	100
Fine Particulate Matter ($PM_{2.5}$)	55
Oxides of Nitrogen (NO_X)	250
Oxides of Sulfur (SO_X)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOC)	75
Operational Emissions (pounds per day)	
Respirable Particulate Matter (PM_{10})	100
Fine Particulate Matter ($PM_{2.5}$)	55
Oxides of Nitrogen (NO_X)	250
Oxides of Sulfur (SO_X)	250
Carbon Monoxide (CO)	550
Volatile Organic Compounds (VOC)	55
Health Risks from Toxic Air Contaminant Exposure	**Health Risk Threshold**
Excess Cancer Risk (Chances per Million)	10 in 1 million
Non-Cancer Acute or Chronic Hazard Index (HI)	1.0

Source: City Municipal Code Chapter 33, Article 47, Section 33-924(a)(5); SDAPCD 2021b

SDAPCD Rule 51 (Nuisance) prohibits emissions from any source whatsoever in such quantities of air contaminants or other material, which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. It is generally accepted that the considerable number of persons

requirement in Rule 51 is normally satisfied when 10 different individuals/households have made separate complaints within 90 days. Odor complaints from a "considerable" number of persons or businesses in the area would be considered to be a significant, adverse odor impact.

4.2.2 GHG Emissions Significance Criteria

Given the relatively small levels of emissions generated by a typical development in relationship to the total amount of GHG emissions generated on a national or global basis, individual development projects are not expected to result in significant, direct impacts with respect to climate change. However, given the magnitude of the impact of GHG emissions on the global climate, GHG emissions from new development could result in significant, cumulative impacts with respect to climate change. Therefore, the potential for a significant GHG impact is limited to cumulative impacts.

According to Appendix G of the CEQA Guidelines, a project would have a significant GHG impact if it would:

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or

2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

As described in Section 2.2.5.2, the City's CAP is a qualified GHG reduction plan consistent with CEQA Guidelines Section 15183.5. Development projects consistent with an applicable local qualified GHG reduction plan are eligible for streamlined GHG analysis. Development projects within the City which are consistent with the City's CAP would be consistent with statewide GHG reduction goals for 2020 (per AB 32) and 2030 (per SB 32) and would demonstrate progress towards the 2050 GHG reduction goal established by EO S-3-05 (City 2021a; City 2021b). The City's EQRs contain GHG emissions screening thresholds used in combination with the CAP Consistency Checklist. Per City Municipal Code Chapter 33, Article 47, Section 33-924(a)(6), GHG emissions for a land use development project would not be significant for:

(A) Projects that do not generate more than 500 metric tons (MT) of carbon dioxide equivalent (CO_2e) GHG emissions and that are consistent with the general plan, or

(B) Projects generating more than 500 MT of CO_2e that are consistent with the general plan, and that have demonstrated consistency with the Climate Action Plan (CAP) through completion of the CAP Consistency Checklist, adopted by separate resolution, or

(C) Projects generating more than 500 MT of CO_2e that are consistent with the general plan, and that cannot demonstrate consistency with the CAP through completion of the CAP Consistency Checklist due to unique land uses or circumstances for which no measures in the checklist would apply, but that can demonstrate consistency with the CAP through comparison to a numerical GHG threshold of 2.0 MT CO_2e per service population per year, or

(D) Projects that are not consistent with the general plan and will generate greater GHG emissions than the allowable uses under the existing general plan land use designation that demonstrate through a project-specific analysis quantifying GHG emissions that through mitigation and design features, the project reduces GHG emissions consistent with the CAP.

5.0 AIR QUALITY IMPACT ANALYSIS

This section evaluates potential direct impacts of the proposed project related to air pollutant emissions. Project-level air quality modeling was completed as part of this analysis. Complete modeling results are included in Appendices A and B of this report.

5.1 ISSUE 1: CONSISTENCY WITH AIR QUALITY PLANS

5.1.1 Impacts

The RAQS outlines SDAPCD's plans and control measures designed to attain the CAAQS for ozone. In addition, the SDAPCD's Attainment Plan includes the SDAPCD's plans and control measures for attaining the ozone NAAQS. These plans accommodate emissions from all sources, including natural sources, through implementation of control measures, where feasible, on stationary sources to attain the standards. Mobile sources are regulated by the USEPA and CARB, and the emissions and reduction strategies related to mobile sources are considered in the RAQS, Attainment Plan, and SIP.

The RAQS and Attainment Plan rely on information from CARB and SANDAG, including projected growth in San Diego County, mobile, area, and all other source emissions to project future emissions and determine from that the strategies necessary for the reduction of stationary source emissions through regulatory controls. CARB mobile source emission projections and SANDAG growth projections are based on population, vehicle trends, and land use plans developed by the cities and by the County. As such, projects that propose development that is consistent with the growth anticipated by the general plans would be consistent with the RAQS and Attainment Plan. If a project proposes development which is less dense than anticipated within the General Plan, the project would likewise be consistent with the RAQS and Attainment Plan. If a project proposes development that is greater than that anticipated in the City General Plan and SANDAG's growth projections upon which the Attainment Plan is based, the project may conflict with the RAQS, Attainment Plan, and SIP and may have a potentially significant impact on air quality. This situation would warrant further analysis to determine if the project and the surrounding projects exceed the growth projections used in the RAQS and Attainment Plan for the specific subregional area.

The project would require a General Plan Amendment to change existing General Plan land use designation from Planned Office (PO) to Urban V. Therefore, an analysis was conducted to determine if the project would result in higher ozone precursor emissions levels compared to development allowed under the existing General Plan land use designation. The proposed density for the residential development is 32.6 dwelling units per acre and the proposed floor to area ratio (FAR) of the project, including existing and proposed components of the church building, would be approximately 0.63. The existing general plan land use designation of PO for the project site has a maximum FAR of 2.0 (City 2012a). For approximately 14.83 acres, the maximum buildout under the current General Plan designation would be an office development consisting of approximately 1,291,995 SF of floor space. Using CalEEMod Version 2022.1 and default settings, the resulting maximum daily emissions of ozone precursors for the operations of the office development would be 54.8 pounds per day of VOC and 22.1 pounds per day of NO_X.

As discussed in Section 5.2.1.2, below, the net increase in maximum daily ozone precursor emissions for the proposed project would be 15.4 pounds per day of VOC and 4.8 pounds per day of NO_X. The

proposed project maximum daily ozone precursor emissions would be well below the maximum buildout ozone precursor emissions for a land use designation of PO. In addition, the project's 258 dwelling units would generate a population increase of approximately 828 individuals, which is only 3.5 percent of SANDAG's projected population growth for the City between 2020 and 2050 (SANDAG 2021). Therefore, the project ozone precursor emissions and population growth would not exceed emissions from the maximum growth anticipated in the General Plan and assumed in development of the RAQS and Attainment Plan. Therefore, the proposed project would not conflict with or obstruct implementation of the RAQS and Attainment Plan.

5.1.2 Significance of Impacts

Implementation of the project would not conflict with or obstruct implementation of the SDAPCD's RAQS and Attainment Plan, and the impact would be less than significant.

5.1.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.1.4 Significance After Mitigation

Impacts related to conflicts with the applicable air quality plan would be less than significant. No mitigation measures are required.

5.2 ISSUE 2: CUMULATIVELY CONSIDERABLE NET INCREASE OF NONATTAINMENT CRITERIA POLLUTANTS

5.2.1 Impacts

By its very nature, air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development within the SDAB. The region is a federal and/or state nonattainment area for ozone, PM_{10} and $PM_{2.5.}$ The project would generate criteria pollutants and precursors in the short-term during construction and the long-term during operation. To determine whether a project would result in a cumulatively considerable net increase in criteria pollutants that would violate an air quality standard or contribute substantially to an existing or projected air quality violation, a project's emissions are evaluated based on the quantitative screening thresholds discussed in Section 4.2.1 and shown in Table 11.

5.2.1.1 Construction Emissions

The project's construction emissions were estimated using the CalEEMod model as described in Section 4.1.1.1. The results of the calculations for project construction are shown in Table 12, *Maximum Daily Construction Emissions*. The data are presented as the maximum anticipated daily emissions for comparison with the screening thresholds. The data assumes conformance with SDAPCD Rules 50, 55, and 67.0.1, as described in Sections 2.1.4.2 and 4.1.1, specifically, watering all exposed areas twice per day, limiting vehicle speeds on unpaved on-site roads to 25 mph, and limiting the VOC content of architectural coatings to 50 g/L for building coatings and 100 g/L for parking lot marking. The complete CalEEMod outputs are provided in Appendix A of this report.

Table 12
MAXIMUM DAILY CONSTRUCTION EMISSIONS

Activity/Year/Season	Pollutant Emissions (pounds per day)					
	VOC	NO_X	CO	SO_X	PM_{10}	$PM_{2.5}$
Site Preparation (Church), Demolition (Church), Site Preparation (Residential), Demolition (Residential)/ 2026/Summer	4.4	39.2	36.3	0.1	15.4	5.1
Site Preparation (Church), Demolition (Church), Grading (Church), Site Preparation (Residential), Demolition (Residential)/2026/Summer	8.0	70.3	65.7	0.2	20.9	7.8
Demolition (Church), Grading (Church), Demolition (Residential)/2026/Summer	6.2	53.4	51.3	0.1	13.8	4.3
Demolition (Church), Grading (Residential)/2026/ Summer	4.9	42.4	40.4	0.1	7.4	3.3
Grading (Church), Grading (Residential)/2026/ Summer	7.3	64.9	59.8	0.2	15.8	6.0
Utility Undergrounding (Church), Grading (Residential)/2026/Winter	4.2	37.9	36.1	0.1	10.6	3.4
Utility Undergrounding (Church), Utility Undergrounding (Residential)/2026/Winter	1.1	8.4	13.4	0.0	0.4	0.3
Building Construction (Church), Utility Undergrounding (Residential)/2027/Winter	1.6	13.8	20.9	0.0	0.7	0.5
Building Construction (Church), Building Construction (Residential)/2027/Winter	2.8	20.8	34.3	0.1	2.8	1.1
Building Construction (Church), Building Construction (Residential)/2027/Summer	2.9	20.6	35.5	0.1	2.8	1.1
Building Construction (Church), Paving (Church), Building Construction (Residential)/2027/Winter	4.2	29.5	45.5	0.1	3.6	1.6
Architectural Coatings (Church), Building Construction (Residential)/2028/Winter	4.7	11.4	21.7	0.0	2.3	0.8
Building Construction (Residential)/2028/Winter	1.7	10.6	20.5	0.0	2.3	0.8
Building Construction (Residential)/2028/Summer	1.7	10.5	21.5	0.0	2.3	0.8
Building Construction (Residential), Paving (Residential)/2028/Summer	3.6	20.6	33.4	0.1	3.5	1.3
Building Construction (Residential), Architectural Coating (Residential)/2028/Summer	33.2	11.4	24.2	0.0	2.7	0.9
Maximum Daily Emissions	**33.2**	**70.3**	**65.7**	**0.2**	**20.9**	**7.8**
Screening Threshold	*75*	*250*	*550*	*250*	*100*	*55*
Significant Impact?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)
VOC = volatile organic compound; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides;
PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 12, the project's short-term construction-related criteria pollutant and precursor emissions would be below the screening thresholds.

5.2.1.2 Operation Emissions

The project's operational emissions were estimated using CalEEMod as described in Section 4.1.1.2. As noted, the church redevelopment would replace an existing church building and no new mobile source emissions would occur. Existing area and energy emissions were not considered in this calculation of the

project's net increase in emissions; therefore, this provides a conservative analysis of the resulting net increase in emissions. Model outputs are provided in Appendix A of this report. Table 13, *Operational Emissions*, presents the summary of operational emissions for the project.

Table 13
OPERATIONAL EMISSIONS

Source	Pollutant Emissions (pounds per day)[2]					
	VOC	**NO_X**	**CO**	**SO_X**	**PM_{10}**	**$PM_{2.5}$**
Area (Church)	0.8	--	1.2	<0.1	<0.1	<0.1
Energy (Church)	<0.1	0.3	0.2	<0.1	<0.1	<0.1
Mobile (Residential)	5.5	3.9	39.9	0.1	9.5	2.5
Area (Residential)	9.2	--	17.0	<0.1	<0.1	<0.1
Energy (Residential)	<0.1	0.6	0.3	<0.1	<0.1	<0.1
Total Daily Emissions[1]	**15.4**	**4.8**	**58.6**	**0.1**	**9.6**	**2.5**
Screening Threshold	*55*	*250*	*550*	*250*	*100*	*55*
Exceed Screening Threshold?	***No***	***No***	***No***	***No***	***No***	***No***

Source: CalEEMod (output data is provided in Appendix A)

[1] Totals may not sum due to rounding.

[2] Maximum daily emissions of VOC and CO occur during summer, maximum daily emission of NO_X occur during winter, emissions of SO_X, PM_{10} and $PM_{2.5}$ are not seasonally dependent.

VOC = volatile organic compound; NO_X = nitrogen oxides; CO = carbon monoxide; SO_X = sulfur oxides;
PM_{10} = particulate matter 10 microns or less in diameter; $PM_{2.5}$ = particulate matter 2.5 microns or less in diameter

As shown in Table 13, project long-term operational emissions of criteria pollutants and precursors would not exceed the applicable screening thresholds.

5.2.2 Significance of Impacts

Short-term construction and long-term operation of the project would not result in criteria pollutant and precursor pollutant emissions that would exceed the City EQR screening thresholds, and the impacts would be less than significant.

5.2.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures would be required.

5.2.4 Significance After Mitigation

The project would not result in a cumulatively considerable net increase of any criteria pollutant for which the SDAB is nonattainment, and the impact would be less than significant. No mitigation measures would be required.

5.3 ISSUE 3: IMPACTS TO SENSITIVE RECEPTORS

5.3.1 Impacts

5.3.1.1 Construction Activities

Diesel Particulate Matter

Implementation of the project would result in the use of heavy-duty construction equipment, haul trucks, on-site generators, and construction worker vehicles. These vehicles and equipment could generate the TAC DPM. Generation of DPM from construction projects typically occurs in a localized area (e.g., at the project site) for a short period of time. Because construction activities and subsequent emissions vary depending on the construction activity (e.g., grading, building construction), the construction-related emissions to which nearby receptors are exposed to would also vary throughout the construction period. During some equipment-intensive activities such as site preparation/grading, construction-related emissions would be higher than other less equipment-intensive activities such as building construction.

The dose (of TAC) to which receptors are exposed is the primary factor used to determine health risk. Dose is a function of the concentration of a substance in the environment and the extent of exposure a person has to the substance; a longer exposure period to a fixed quantity of emissions would result in higher health risks. Current models and methodologies for conducting cancer HRAs are associated with longer-term exposure periods (typically 30 years for individual residents based on guidance from OEHHA) and are best suited for evaluation of long duration TAC emissions with predictable schedules and locations. These assessment models and methodologies do not correlate well with the temporary and highly variable nature of construction activities. Cancer potency factors are based on animal lifetime studies or worker studies where there is long-term exposure to the carcinogenic agent. There is considerable uncertainty in trying to evaluate the cancer risk from projects that will only last a small fraction of a lifetime (OEHHA 2015). In addition, concentrations of mobile-source DPM emissions disperse rapidly and are typically reduced by 70 percent at approximately 500 feet (CARB 2005). The most intense use of heavy off-road diesel construction equipment would occur during grading, which is anticipated to occur over only 39 workdays. Considering the short duration of intensive off-road diesel equipment used on the project site, the highly dispersive nature of DPM, and the fact that construction activities would occur at various locations throughout the project site (not concentrated near any single receptor for extended periods), it is not anticipated that construction of the project would expose sensitive receptors to substantial DPM.

5.3.1.2 Operational Activities

CO Hotspots

Vehicle exhaust is the primary source of CO. In an urban setting, the highest CO concentrations are generally found within close proximity to congested intersections. Under typical meteorological conditions, CO concentrations tend to decrease as distance from the emissions source (i.e., congested intersection) increases. Project-generated traffic has the potential of contributing to localized “hot spots” of CO off-site. Because CO is a byproduct of incomplete combustion, exhaust emissions are worse when fossil-fueled vehicles are operated inefficiently, such as in stop-and-go traffic or through heavily congested intersections.

The SDAPCD does not have screening criteria for when an intersection or road segment might generate CO hotspots. However, the volume of vehicles required to result in a CO hotspot is very high. For example, the Bay Area Air Quality Management District's (BAAQMD's) screening criteria for CO hotspots is intersections with more than 44,000 vehicles per hour, or intersections with 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited (e.g., tunnel, parking garage, bridge underpass, natural or urban street canyon, below-grade roadway; BAAQMD 2023). San Diego County and the Bay Area share similar urban characteristics, including high traffic volumes, freeway-dominated transportation networks, and comparable vehicle emission profiles; as a result, the BAAQMD's threshold is used to assess the potential for CO hotspots in the project vicinity in the absence of a local standard. According to the intersection volumes reported in the LMA, the highest project-affected traffic volumes would be at the intersection of West Citracado Parkway and Centre City Parkway, which would have a peak hour traffic volume of 3,509 vehicles for the near-term (2025) scenario, including project traffic and cumulative projects traffic. This peak hour traffic volume would be far below the BAAQMD's CO hotspot screening threshold of 44,000 vehicles per hour, or 24,000 vehicles per hour with limited vertical mixing. Therefore, the project would not result in substantial local concentrations of CO.

New Sensitive Receptors

As a residential development, the project would be considered a new sensitive land use and future project residents would be new sensitive receptors. The siting recommendations within the CARB Air Quality and Land Use Handbook suggest avoiding siting new sensitive receptors within: 1,000 feet of a warehouse distribution center, 300 feet of a large gas station (defined as a facility with a throughput of 3.6 million gallons per year or greater), 50 feet of typical gas dispensing facilities, 300 feet of a dry cleaning facility that uses perchloroethylene, or 500 feet of a freeway or urban road with 100,000 or more vehicles per day (CARB 2005). The closest gas station to the project is located approximately 3,100 feet (0.59 mile) to the east and the closest dry-cleaning facility to the project site is approximately 2,650 feet (0.50 mile) to the northeast. There are no warehouse distribution centers within one mile of the project site.

The closest road with 100,000 or more vehicles per day is I-15, with the nearest travel lane centerline approximately 160 feet southwest of the project site. This section discloses potential health risks to future project residents from local sources of TACs and recommends measures to reduce those potential health risks as part of the project design.

Non-cancer chronic (long-term) and acute (short-term) health effects are evaluated based on established RELs for each TAC and on the calculated Hazard Index (HI). An HI less than 1 means non-cancer adverse health effects are not expected for exposed individuals. An HI of 1 or higher indicates non-cancer health effects are possible (but not certain) for exposed individuals. Unlike non-cancer chronic and acute health effects, for exposure to carcinogens, there is no level of exposure below which no adverse health effects are expected. The incremental excess cancer risk is an estimate of the chance a person exposed to a specific source of a TAC may have of developing cancer from that exposure beyond the individual's risk of developing cancer from existing background levels of TACs in the ambient air. For context, the average cancer risk from TACs in the ambient air for an individual living in an urban area of California is 830 in 1 million (CARB 2015), and the statewide average cancer risk from exposure to DPM is 520 in 1 million (CARB 2024b). Cancer risk estimates do not mean, and should not be interpreted to mean, that a person will develop cancer from estimated exposures to toxic air pollutants.

The primary TAC of concern from on-road vehicle exhaust in California is DPM. Dispersion modeling and a HRA was completed for emissions of DPM from I-15, I-15 on-ramps and off-ramps, Felicita Road, West Citracado Parkway, Gamble Road, Miller Avenue, and Brotherton Road, as described in Section 4.1. Because the ADMRT database for DPM only contains an inhalation cancer slope factor and an inhalation chronic REL (DPM does not have an acute or 8-hour chronic REL), only cancer risks and non-cancer chronic risks were evaluated. The highest estimated incremental increased cancer risk and non-cancer chronic HI for future project residents, measured at apartment balconies or windows facing I-15, West Citracado Parkway, or Felicita Road are summarized in Table 14, *Project Sensitive Receptor Incremental Increased Health Effects*. See Figure 5 for receptor locations. The complete modeling input and output, including cancer risk isopleths figures (contour lines of equal risk) are included in Appendix C of this report. These estimates are conservative (health protective) and assume that the resident is outdoors for the entire exposure period.

Table 14
PROJECT SENSITIVE RECEPTOR INCREMENTAL INCREASED HEALTH EFFECTS

Receptor ID	Building #/Direction/Floor	Cancer Risk (chances per million)	Non-Cancer Chronic Hazard Index
B1S1	Building 1/South/1st	135	0.03
B1S2	Building 1/South/2nd	130	0.03
B1S3	Building 1/South/3rd	101	0.02
B1W1	Building 1/West/1st	137	0.03
B1W2	Building 1/West/2nd	131	0.03
B1W3	Building 1/West/3rd	101	0.02
B2W1	Building 2/West/1st	104	0.02
B2W2	Building 2/West/2nd	99	0.02
B2W3	Building 2/West/3rd	75	0.02
B3W1	Building 3/West/1st	94	0.02
B3W2	Building 3/West/2nd	87	0.02
B3W3	Building 3/West/3rd	62	0.01
B10S1	Building 10/South/1st	123	0.03
B10S2	Building 10/South/2nd	119	0.03
B10S3	Building 10/South/3rd	95	0.02
B9S1	Building 9/South/1st	114	0.03
B9S2	Building 9/South/2nd	108	0.02
B9S3	Building 9/South/3rd	81	0.02
B9S4	Building 9/South/4th	47	0.01
B8S1	Building 8/South/1st	102	0.02
B8S2	Building 8/South/2nd	81	0.02
B8S3	Building 8/South/3rd	49	0.01
	Maximum	**137**	**0.03**
	Screening Threshold	*10 in 1 million*	*1.0*
	Exceed Threshold?	***Yes***	***No***

Source: Lakes AERMOD View and ADMRT

As shown in Table 14, non-cancer chronic health effects would not exceed the screening maximum HI threshold of 1. However, the incremental increased cancer risk would exceed the screening threshold of 10 in 1 million (based on SDAPCD Rule 1210, as discussed in Section 4.2.1) for all project buildings. Therefore, to protect the health of future project residents, measures to reduce the increased health risk to future project residents are recommended. Three strategies for reducing the increased health risk

for residents sited near high-volume roadways are commonly used: land use design, solid vegetation barriers, and indoor air treatments.

The land use design strategy involves placing residential buildings as far from the roadway(s) as practical within the lots and incorporating building and lot features to promote dispersion of pollutants. The solid vegetation barrier strategy involves planting dense arrangements of certain bushes and trees between residents and roadways. While these two strategies have been shown to improve pollutant dispersion in studies and should be considered, they may not achieve sufficient levels of risk reduction for project residents.

The third strategy, indoor air treatments, involves the use of improved heating, ventilation, and air conditioning (HVAC) system filtration, or portable air cleaners. HVAC filters are rated by the size of particles they can capture. Some manufacturers report the effectiveness based on the MERV rating system. Others use a Micro-Particle Performance Rating (MPR) or a Filter Performance Rating (FPR). The SDAPCD does not have recommendations for indoor air filtration levels to reduce health effects from roadway emissions. The Sacramento Metropolitan Air Quality Management District (SMAQMD) recommends a MERV of at least 13, an MPR of at least 1500, or an FPR of at least 10 (SMAQMD 2019). An FPR of 10 and an MPR of 1500 are approximately equivalent to a MERV 13. A MERV-13 filter removes from 75 to 90 percent of pollutant particles 0.3 micron in diameter and larger (CARB 2020). Therefore, the following compliance measure would be incorporated as a project design feature to reduce future project resident exposure to high-volume roadway exhaust emissions:

- **Indoor Air Filtration.** The residential building designs will include a mechanical ventilation system that meets the criteria of the International Building Code (Section 1203.2 of the California Building Code) to ensure that windows would be able to remain closed while maintaining adequate ventilation and temperature control. The mechanical ventilation system will be designed to accommodate, and equipped with, filters having a Minimum Efficiency Reporting Value (MERV) rating of 13 or higher.

With incorporation of mechanical ventilation systems with MERV-13- or higher-rated filters in the design of project buildings, future project residents would not be exposed to substantial concentrations of pollutants from nearby high-volume roadways.

5.3.2 Significance of Impacts

Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact would be less than significant.

5.3.3 Mitigation Framework

Impacts to sensitive receptors would be less than significant; therefore, no mitigation measures are required.

5.3.4 Significance After Mitigation

No mitigation measures are required. Implementation of the project would not expose sensitive receptors to substantial pollutant concentrations, and the impact would be less than significant.

5.4 ISSUE 4: OTHER EMISSIONS (SUCH AS THOSE LEADING TO ODORS)

5.4.1 Impacts

The State of California Health and Safety Code Sections 41700 and 41705, and SDAPCD Rule 51, prohibit emissions from any source whatsoever in such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to the public health or damage to property. Any unreasonable odor discernible at the property line of the project site will be considered a significant odor impact.

According to the SCAQMD CEQA Air Quality Handbook, land uses associated with odor complaints include agricultural uses, wastewater treatment plants, food processing plants, chemical plants, composting activities, refineries, landfills, dairies, and fiberglass molding operations (SCAQMD 1993). The project, involving multi-family residential and church uses, would not include any of these uses nor are there any of these land uses in the project vicinity.

Emissions from construction equipment, such as diesel exhaust, and VOCs from architectural coatings and paving activities may generate odors; however, these odors would be temporary, intermittent, and not expected to affect a substantial number of people. Additionally, noxious odors would be confined to the immediate vicinity of construction equipment. By the time such emissions reach any sensitive receptor sites, they would be diluted to well below any level of air quality concern. Furthermore, short term construction-related odors are expected to cease upon the drying or hardening of the odor-producing materials. Long-term operation of the project would not be a substantial source of objectionable odors.

5.4.2 Significance of Impacts

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant.

5.4.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

5.4.4 Significance After Mitigation

Implementation of the project would not result in other emissions (such as those leading to odors) adversely affecting a substantial number of people, and the impact would be less than significant. No mitigation measures are required.

6.0 GREENHOUSE GAS IMPACT ANALYSIS

This section evaluates potential impacts of the proposed project related to the generation of GHG emissions. Complete modeling results are included as Appendix A of this report.

6.1 ISSUE 1: GREENHOUSE GAS EMISSIONS

6.1.1 Impacts

For land use development projects in the City, the significance of the project's GHG emissions are determined utilizing the City's EQRs (discussed in Section 4.2.2) and CAP (discussed in Section 2.2.5.2). If the project would generate less than 500 MT CO_2e per year and would be consistent the City General Plan land use designation, the project's GHG emissions would be less than significant. If the project would generate 500 MT CO_2e per year or more, or if the project would not be consistent the City General Plan land use designation, the City's CAP Consistency Checklist (City 2021b) must be completed to determine the significance of the project's GHG emissions.

6.1.1.1 Construction Emissions

Project construction GHG emissions were estimated using the CalEEMod model as described in Section 4.1.1. Project-specific input was based on project-specific information described in Sections 1.0 and 4.1.1 and default model settings to estimate reasonably conservative conditions. Additional details of construction activities, selection of construction equipment, and other input parameters, including CalEEMod data, are included in Appendix A.

Emissions of GHGs related to the construction of the project would be temporary. As shown in Table 15, *Construction GHG Emissions*, total GHG emissions associated with construction of the project are estimated at 1,790 MT CO_2e. For construction emissions, SCAQMD guidance recommends that the emissions be amortized (i.e., averaged) over 30 years and added to operational emissions. Averaged over 30 years, the proposed construction activities would contribute approximately 59.7 MT CO_2e emissions per year.

Table 15
CONSTRUCTION GHG EMISSIONS

Year/Activity	Emissions (MT CO_2e)
2026 Construction	415.0
2027 Construction	913.0
2028 Construction	461.7
TOTAL[1]	**1,789.7**
Amortized Construction Emissions[2]	*59.7*

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
[2] Construction emissions are amortized over 30 years in accordance with SCAQMD guidance.
MT = metric tons; CO_2e = carbon dioxide equivalent

6.1.1.2 Operation Emissions

Project operational GHG emissions were estimated using the CalEEMod model as described in Section 4.1. The calculated project operational emissions for the first anticipated full year of operation (2029) combined with amortized construction emissions are shown in Table 16, *Total Estimated Operational GHG Emissions*. Emissions shown for the residential development account for on-site solar electricity generation required by the 2022 Title 24 building energy standards, as discussed in Section 4.1.1.2. In addition, as previously discussed, no net increase in trips from the church development would occur and no emissions are quantified for church-related mobile sources. Other emissions associated

with building operations are expected to decrease given the replacement of the church building with a more efficient building of similar size. Nonetheless, these emissions are conservatively included in the following analysis.

Table 16
TOTAL ESTIMATED OPERATIONAL GHG EMISSIONS

Emission Sources	2029 Emissions (MT CO_2e)
Area (Church)	0.4
Energy (Church)	60.9
Water/Wastewater (Church)	1.3
Solid Waste (Church)	44.3
Refrigerants (Church)	<0.1
Mobile (Residential)	1,677.7
Area (Residential)	4.0
Energy (Residential)	125.4
Water/Wastewater (Residential)	17.1
Solid Waste (Residential)	71.9
Refrigerants (Residential)	0.4
Subtotal[1]	**2,003.3**
Construction (Annualized over 30 years)	59.7
TOTAL[1]	**2,063.0**
City EQR Screening Threshold	**500**
Exceed Screening Threshold?	**Yes**

Source: CalEEMod (output data is provided in Appendix A)
[1] Totals may not sum due to rounding.
MT = metric tons; CO_2e = carbon dioxide equivalent

As shown in Table 16, the project would result in approximately 2,063 MT CO_2e per year starting in 2029, exceeding the City's EQR screening threshold of 500 MT CO_2e per year. Therefore, completion of the CAP Consistency Checklist is required.

6.1.1.3 CAP Consistency Checklist

HELIX Environmental Planning Inc. (HELIX) prepared a CAP Consistency Checklist (City 2021b) for the project following the City guidance for demonstrating consistency with the CAP (City 2021c). The CAP checklist is attached as Appendix D to this report. Step 1, question 1 of the CAP checklist is to determine if the project would be consistent with the existing General Plan land use designation and assumptions used in creating the CAP. The project would not be consistent with the General Plan land use designation; the project would require a General Plan Amendment to change the existing General Plan land use designation from PO to Urban V.

Step 1, question 2 of the CAP checklist is to determine if the project would generate GHG emissions equal to or less than estimated emissions generated under the existing designation. The existing General Plan land use designation of PO for the project site has a maximum FAR of 2.0 (City 2012a). For the same developed area as the project (approximately 14.83 acres), the maximum buildout under the current General Plan designation would be an office development consisting of approximately 1,291,995 SF of floor space. Using CalEEMod and default settings, the resulting annual GHG emissions starting in 2029 would be 8,035 MT CO_2e per year (CalEEMod output is included in Appendix A). The proposed project

annual GHG emissions of 2,063 MT CO_2e per year (as shown in Table 16) would be well below the maximum buildout emissions for a land use designation of PO.

Step 1, question 3 of the CAP checklist is to determine if the project would exceed the screening land use levels. The residential development's proposed land use of 258 dwelling units would exceed the multi-family housing screening level of 55 dwelling units. Therefore, Step 2 of the CAP Consistency Checklist (evaluate a project's consistency with the applicable strategies and measures of the CAP) must be completed.

Step 2, questions 1 through 9 of CAP checklist are summarized below:

1. ***Electric Vehicle Charging Stations (Measures T-1.3 and T-1.4)*** *– All Projects: Will the project install electric vehicle charging stations (EVCSs) consistent with the following requirements:*

    - *Comply with the most recently updated version of the California Building Energy Efficiency Standards (Title 24, Part 6)?*

    - *For multi-family residential and commercial (i.e., office and retail commercial) projects, will the project install electric vehicle charging stations at a minimum of 10 percent of the total parking spaces provided?*

    - *For single-family residential projects, will the project install at least one EVCS in each new single-family home?*

Yes. The project is designed to comply with the current Title 24 standards and verification of compliance with these requirements would occur during building permit issuance. The residential development plans to provide 441 stalls, at least 45 of which would be designated for electric vehicles and equipped with EVCSs in accordance with the July 2024 update to the 2022 Title 24, Part 11 standards. The church development is not an office or retail commercial project; therefore, no EVCSs are required by the CAP. Nonetheless, the church development would comply with applicable requirements to install EVCSs in effect at the time of building permit issuance. Therefore, the project would be consistent with this measure.

2. ***Pedestrian Infrastructure (Measure T-3.2)*** *– All Projects: If the following conditions are met, would the project pay its fair-share contribution or fully install pedestrian infrastructure improvements?*

    - *The project frontage is located along a roadway for which pedestrian improvements are identified in the City's Street Design Manual, Pedestrian Master Plan, Trail Master Plan, or Safe Routes to School and Transit Plans;*

    - *The proposed project would include site design amenities with pedestrian access points from the existing, identified roadway; and,*

    - *The identified pedestrian improvements have not yet been installed. Or if they have been installed, the infrastructure is being redesigned, upgraded, and/or maintained to promote universal access.*

Yes. The existing sidewalk along Brotherton Road would remain in place, and the project proposes to install a new sidewalk along Felicita Road adjacent to the project site, along with an Americans with

Disabilities Act (ADA) accessible curb on the southeast corner of the intersection of Brotherton Road and Felicita Road. Access to the residential development would be provided by a new driveway off Brotherton Road (the existing driveway would be removed), and a proposed driveway off Felicita Road. Access to the church development would be provided from two entries along Brotherton Road generally where the existing access drives are located. The applicant also proposes to construct approximately 320 feet of new sidewalk on the east side of Felicita Road between Brotherton Road and the current sidewalk about 320 feet to the north. In addition, the applicant proposes to implement pedestrian and network infrastructure improvements as mitigation for project VMT impacts.

3. ***Transportation Demand Management and Transit (Measures T-3.4 and T-3.6)*** *– Non-Residential Projects: If the project is located within the Downtown Specific Plan, South Centre City Specific Plan, or East Valley Parkway Specific Plan, will the project implement Transportation Demand Management (TDM) program?*

Not Applicable. The project is not located within the Downtown Specific Plan, South Centre City Specific Plan, or East Valley Parkway Specific Plan (City 2024).

4. ***Bicycle Infrastructure (Measure T-3.5)*** *– All Projects: If the following conditions are met, would the project pay its fair-share contribution to bicycle infrastructure improvements?*

    - *Intersection or roadway improvements are proposed as part of the project; and*

    - *The City's Bicycle Master Plan for identifies bicycle infrastructure improvements at any intersection(s) or roadway segment(s) that would be impacted as part of the project.*

Not Applicable. The City's Bicycle Master Plan identifies existing bicycle lanes along the project Felicita Road frontage (City 2012b). The project would widen Felicita Road on the east side (project side) and, as part of the widening, would re-stripe the existing bicycle lane. Therefore, the Bicycle Master Plan improvements for project impacted roads and intersections are fully in place and would remain with implementation of the project.

5. ***Alternatively Fueled Water Heaters (Measures E-4.1 and E-4.2)*** *– Residential Projects: If the project is a new single-family or multi-family residential development, will the project install electric heat pump water heaters?*

Yes. The residential development would utilize electric heat pump water heaters, or zero emissions water heaters with equivalent efficiency, per Title 24 requirements.

6. ***Electric Cooking Appliances (Measure E-4.2)*** *– Multi-Family Residential Projects: If the project is a new multi-family residential development, will the project install only electric cooking appliances?*

Yes. The residential development would utilize only electric cooking appliances.

7. ***Zero Net Energy (Measure E-5.2)*** *– Commercial Projects: If the project is a new commercial retail or office development, would the project achieve zero net energy (i.e., the total amount of energy used on-site is equal to the amount of renewable energy created on-site) and comply with the most recently updated California Building Energy Efficiency Standards (Title 24, Part 6)?*

Not Applicable. The project does not propose any commercial retail or office uses.

8. ***Landscape Water Consumption (Measure W-6.2)*** *– Residential Projects: If the project is proposing a single-family or townhome model home development, would the project:*

    - *Fully equip all model homes with greywater systems and rain barrels (or other rainwater capture systems); and,*

    - *Offer greywater systems and rain barrels (or other rainwater capture systems) as an add-on option for new homes.*

Not Applicable. The project is a multi-family residential complex and church building renovation. It is not a single-family or townhome model home development.

9. ***Tree Planting (Measure C-9.1)*** *– All Projects: Would the project plant trees consistent with the following requirements?*

    - *Would the project plant a minimum of one tree for every four new parking spaces and/or demonstrate 50 percent canopy coverage in parking areas?*

Residential Projects: In addition to the planting requirements above for all projects, would the project be consistent with the following requirement?

- *Would the project plant a minimum of one tree per dwelling unit or pay an in-lieu fee?*

Yes. The existing project site contains approximately 204 parking spaces, and the proposed project would provide 648 parking spaces, resulting in a total of approximately 444 new parking spaces. Therefore, the project would be required to plant a total of 111 trees to fulfill the "All Projects" requirement. Additionally, the project includes a residential development with a proposed 258 dwelling units, resulting in a requirement of an additional 258 trees, making the total required trees 369 trees. The project plans to plant approximately 601 new trees and would, therefore, be consistent with this measure.

6.1.2 Significance of Impacts

The project would exceed the applicable screening threshold for GHG emissions but would be consistent with the City's CAP Checklist. Therefore, impacts related to GHG emissions would be less than significant.

6.1.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures would be required.

6.1.4 Significance After Mitigation

The project would not generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment, and impacts would be less than significant. No mitigation measures are required.

6.2 ISSUE 2: CONFLICT WITH APPLICABLE PLANS ADOPTED FOR THE PURPOSE OF REDUCING GHG EMISSIONS

6.2.1 Impacts

There are numerous state plans, policies, and regulations adopted for the purpose of reducing GHG emissions. The principal overall state plan and policy is AB 32, the California Global Warming Solutions Act of 2006. The quantitative goal of AB 32 is to reduce GHG emissions to 1990 levels by 2020. SB 32 would require further reductions of 40 percent below 1990 levels by 2030. Because the project's operational year is post-2020, the project aims to reach the quantitative goals set by SB 32. Statewide plans and regulations such as GHG emissions standards for vehicles (AB 1493), the LCFS, and regulations requiring an increasing fraction of electricity to be generated from renewable sources are being implemented at the statewide level; as such, compliance at the project level is not addressed. Therefore, the proposed project would not conflict with those plans and regulations.

The project must also be constructed in accordance with the energy-efficiency standards, water reduction goals, and other standards contained in the applicable Title 24 Part 6 Building Energy Efficiency Standards and Part 11 (CALGreen) Building Standards. As discussed in Issue 1, the project would be consistent with the City CAP. The City's CAP was developed to ensure community-wide GHG emissions in Escondido would meet the state's 2020 and 2030 GHG reduction goals mandated by AB 32 and SB 32 and demonstrate progress towards achieving the 2050 reduction goal established by EO S-3-05. Therefore, because the project would be consistent with the City's CAP, the project would not conflict with state GHG reduction plans developed to achieve the goals of AB 32 and SB 32, including the CARB Scoping Plan.

6.2.2 Significance of Impacts

The project would not conflict with any applicable GHG reduction plans, policies, or regulations, and impacts would be less than significant.

6.2.3 Mitigation Framework

Impacts would be less than significant; therefore, no mitigation measures are required.

6.2.4 Significance After Mitigation

The project would not conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs, and the impact would be less than significant. No mitigation measures are required.

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Appendix A

CalEEMod Output

Alexan Escondido Project - Church Development Detailed Report

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2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

2.2. Construction Emissions by Year, Unmitigated

2.4. Operations Emissions Compared Against Thresholds

2.5. Operations Emissions by Sector, Unmitigated

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

3.3. Site Preparation (2026) - Unmitigated

3.5. Grading (2026) - Unmitigated

3.7. Building Construction (2027) - Unmitigated

3.9. Paving (2027) - Unmitigated

3.11. Architectural Coating (2028) - Unmitigated

3.13. Underground Infrastructure/Utilities (2026) - Unmitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

8.1. Justifications

8.3. Land Use

8.4. Construction

8.4.1. Construction Phases

8.4.2. Off-Road Equipment

8.4.6. Trips and VMT

8.4.7. On-Road Fugitive Dust

8.4.9. Paving

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Alexan Escondido Project - Church Development
Construction Start Date	8/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.2
Precipitation (days)	27
Location	33.095589599925475, -117.08250171052887
County	San Diego
City	Escondido
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6211
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.36

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
Place of Worship	25	1000sqft	6.7	24,627	2,462	—	—	—

Single Family Housing	2.0	Dwelling Unit	0.00	1,550	0.00	—	6.0	—

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.	6.9	5.8	50	47	0.11	2.1	14	16	1.9	3.5	5.5	—	12,559	12,559	0.51	0.16	1.5	12,620
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.0	3.0	18	25	0.05	0.66	0.61	1.3	0.60	0.16	0.76	—	5,592	5,592	0.24	0.27	0.10	5,679
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.95	0.79	7.0	9.8	0.02	0.25	0.80	0.97	0.23	0.22	0.37	—	1,922	1,922	0.08	0.03	0.20	1,933
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.17	0.15	1.3	1.8	< 0.005	0.05	0.15	0.18	0.04	0.04	0.07	—	318	318	0.01	0.01	0.03	320

2.2. Construction Emissions by Year, Unmitigated

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

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

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	6.9	5.8	50	47	0.11	2.1	14	16	1.9	3.5	5.5	—	12,559	12,559	0.51	0.16	1.5	12,620
2027	1.3	1.1	9.5	13	0.02	0.34	0.12	0.46	0.31	0.03	0.34	—	2,600	2,600	0.11	0.04	0.56	2,615
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.65	0.55	4.0	5.8	0.01	0.13	0.08	0.21	0.12	0.02	0.14	—	1,328	1,328	0.05	0.01	0.01	1,334
2027	2.8	2.4	18	25	0.05	0.66	0.61	1.3	0.60	0.16	0.76	—	5,592	5,592	0.24	0.27	0.10	5,679
2028	3.0	3.0	0.81	1.2	< 0.005	0.02	0.02	0.03	0.01	< 0.005	0.02	—	152	152	0.01	< 0.005	< 0.005	153
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.60	0.50	4.2	4.3	0.01	0.17	0.80	0.97	0.16	0.22	0.37	—	1,139	1,139	0.05	0.01	0.07	1,144
2027	0.95	0.79	7.0	9.8	0.02	0.25	0.10	0.34	0.23	0.02	0.25	—	1,922	1,922	0.08	0.03	0.20	1,933
2028	0.36	0.35	0.10	0.14	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	18	18	< 0.005	< 0.005	< 0.005	18
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.09	0.77	0.79	< 0.005	0.03	0.15	0.18	0.03	0.04	0.07	—	189	189	0.01	< 0.005	0.01	189
2027	0.17	0.15	1.3	1.8	< 0.005	0.05	0.02	0.06	0.04	< 0.005	0.05	—	318	318	0.01	0.01	0.03	320
2028	0.06	0.06	0.02	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.0	3.0	< 0.005	< 0.005	< 0.005	3.0

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.83	0.80	0.29	1.4	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	371	449	7.9	0.01	0.11	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.63	0.61	0.28	0.23	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	366	444	7.9	0.01	0.11	643
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.72	0.70	0.29	0.81	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	369	447	7.9	0.01	0.11	645
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	0.13	0.05	0.15	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	13	61	74	1.3	< 0.005	0.02	107

2.5. 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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.80	0.78	0.01	1.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.7	4.7	< 0.005	< 0.005	—	4.7
Energy	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.05	< 0.005	—	368
Water	—	—	—	—	—	—	—	—	—	—	—	1.6	0.73	2.3	0.17	< 0.005	—	7.7
Waste	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	267
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	0.83	0.80	0.29	1.4	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	371	449	7.9	0.01	0.11	648
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.59	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.05	< 0.005	—	368
Water	—	—	—	—	—	—	—	—	—	—	—	1.6	0.73	2.3	0.17	< 0.005	—	7.7
Waste	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	267
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11

Total	0.63	0.61	0.28	0.23	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	366	444	7.9	0.01	0.11	643
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.69	0.69	< 0.005	0.58	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.3	2.3	< 0.005	< 0.005	—	2.3
Energy	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.05	< 0.005	—	368
Water	—	—	—	—	—	—	—	—	—	—	—	1.6	0.73	2.3	0.17	< 0.005	—	7.7
Waste	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	267
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Total	0.72	0.70	0.29	0.81	< 0.005	0.02	0.00	0.02	0.02	0.00	0.02	78	369	447	7.9	0.01	0.11	645
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Area	0.13	0.13	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.38	0.38	< 0.005	< 0.005	—	0.39
Energy	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	61	61	0.01	< 0.005	—	61
Water	—	—	—	—	—	—	—	—	—	—	—	0.27	0.12	0.39	0.03	< 0.005	—	1.3
Waste	—	—	—	—	—	—	—	—	—	—	—	13	0.00	13	1.3	0.00	—	44
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Total	0.13	0.13	0.05	0.15	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	13	61	74	1.3	< 0.005	0.02	107

3. Construction Emissions Details

3.1. Demolition (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road	1.5	1.2	11	10	0.02	0.45	—	0.45	0.41	—	0.41	—	2,336	2,336	0.09	0.02	—	2,344
Demolition	—	—	—	—	—	—	0.21	0.21	—	0.03	0.03	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.07	0.58	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	128	128	0.01	< 0.005	—	128
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21	21	< 0.005	< 0.005	—	21
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	70	70	< 0.005	< 0.005	0.24	71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	0.01	2.3
Hauling	0.02	0.01	0.34	0.13	< 0.005	< 0.005	5.6	5.6	< 0.005	0.57	0.57	—	264	264	0.01	0.04	0.55	277

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.6	3.6	< 0.005	< 0.005	0.01	3.7
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	< 0.005	< 0.005	< 0.005	0.13
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.28	0.28	< 0.005	0.03	0.03	—	14	14	< 0.005	< 0.005	0.01	15
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.61
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	2.4	2.4	< 0.005	< 0.005	< 0.005	2.5

3.3. Site Preparation (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	0.91	8.3	7.1	0.01	0.37	—	0.37	0.34	—	0.34	—	1,379	1,379	0.06	0.01	—	1,384
Dust From Material Movement	—	—	—	—	—	—	2.6	2.6	—	1.3	1.3	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.34	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	57	57	< 0.005	< 0.005	—	57
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.4	9.4	< 0.005	< 0.005	—	9.4
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	23	23	< 0.005	< 0.005	0.08	24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.7	1.7	< 0.005	< 0.005	< 0.005	1.8
Hauling	< 0.005	< 0.005	0.06	0.02	< 0.005	< 0.005	0.99	0.99	< 0.005	0.10	0.10	—	47	47	< 0.005	0.01	0.10	49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.92

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	—	1.9	1.9	< 0.005	< 0.005	< 0.005	2.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.32	0.32	< 0.005	< 0.005	< 0.005	0.34

3.5. Grading (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.3	3.6	31	29	0.08	1.3	—	1.3	1.2	—	1.2	—	8,295	8,295	0.34	0.07	—	8,324
Dust From Material Movement	—	—	—	—	—	—	4.0	4.0	—	1.5	1.5	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.5	2.4	0.01	0.11	—	0.11	0.10	—	0.10	—	682	682	0.03	0.01	—	684

Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	113	113	< 0.005	< 0.005	—	113
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	< 0.005	0.49	142
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.5	2.5	< 0.005	< 0.005	0.01	2.6
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.02	11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.8	1.8	< 0.005	< 0.005	< 0.005	1.8

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2027) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.7	9.3	0.02	0.24	—	0.24	0.22	—	0.22	—	1,714	1,714	0.07	0.01	—	1,720
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.16	0.13	1.2	1.7	< 0.005	0.04	—	0.04	0.04	—	0.04	—	284	284	0.01	< 0.005	—	285
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	101	101	< 0.005	< 0.005	0.33	103
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.23	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.40	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	95	95	0.01	< 0.005	0.01	97
Vendor	0.01	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.01	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.29	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	69	69	< 0.005	< 0.005	0.10	70
Vendor	0.01	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	73	73	< 0.005	0.01	0.07	76
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.02	12
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	12	12	< 0.005	< 0.005	0.01	13
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Paving (2027) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.9	10.0	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.50	0.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33	33	< 0.005	< 0.005	—	33
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.5	5.5	< 0.005	< 0.005	—	5.5
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	0.01	0.01	131
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24	24	< 0.005	< 0.005	< 0.005	25
Hauling	0.10	0.03	1.8	0.67	0.01	0.03	0.36	0.39	0.02	0.10	0.12	—	1,333	1,333	0.07	0.21	0.07	1,397
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.9	2.9	< 0.005	< 0.005	< 0.005	2.9
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.55
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	29	29	< 0.005	< 0.005	0.02	31
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.8	4.8	< 0.005	< 0.005	< 0.005	5.1

3.11. Architectural Coating (2028) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134

Architectural Coating	2.9	2.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.10	0.13	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16	16	< 0.005	< 0.005	—	16
Architectural Coatings	0.34	0.34	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.6	2.6	< 0.005	< 0.005	—	2.6
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19	19	< 0.005	< 0.005	< 0.005	19
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	< 0.005	2.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.37	0.37	< 0.005	< 0.005	< 0.005	0.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Underground Infrastructure/Utilities (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	4.0	5.4	0.01	0.13	—	0.13	0.12	—	0.12	—	1,240	1,240	0.05	0.01	—	1,245
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.71	0.98	< 0.005	0.02	—	0.02	0.02	—	0.02	—	224	224	0.01	< 0.005	—	225

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37	37	< 0.005	< 0.005	—	37
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88	88	< 0.005	< 0.005	0.01	89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16	16	< 0.005	< 0.005	0.03	16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.7	2.7	< 0.005	< 0.005	< 0.005	2.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	27	27	0.02	< 0.005	—	29
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1.5	1.5	< 0.005	< 0.005	—	1.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	29	29	0.02	< 0.005	—	30
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	27	27	0.02	< 0.005	—	29
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	1.5	1.5	< 0.005	< 0.005	—	1.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	29	29	0.02	< 0.005	—	30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	4.5	4.5	< 0.005	< 0.005	—	4.7
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	0.25	0.25	< 0.005	< 0.005	—	0.26
Total	—	—	—	—	—	—	—	—	—	—	—	—	4.8	4.8	< 0.005	< 0.005	—	5.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.03	0.01	0.27	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	319	319	0.03	< 0.005	—	319
Single Family Housing	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18	18	< 0.005	< 0.005	—	18
Total	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	337	337	0.03	< 0.005	—	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.03	0.01	0.27	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	319	319	0.03	< 0.005	—	319
Single Family Housing	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	18	18	< 0.005	< 0.005	—	18
Total	0.03	0.02	0.28	0.23	< 0.005	0.02	—	0.02	0.02	—	0.02	—	337	337	0.03	< 0.005	—	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	53	53	< 0.005	< 0.005	—	53
Single Family Housing	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.0	3.0	< 0.005	< 0.005	—	3.0
Total	0.01	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	56	56	< 0.005	< 0.005	—	56

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Consum Products	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.20	0.19	0.01	1.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.7	4.7	< 0.005	< 0.005	—	4.7
Total	0.80	0.78	0.01	1.2	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.7	4.7	< 0.005	< 0.005	—	4.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.03	0.03	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.59	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.02	0.02	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.38	0.38	< 0.005	< 0.005	—	0.39
Total	0.13	0.13	< 0.005	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.38	0.38	< 0.005	< 0.005	—	0.39

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1.5	0.67	2.1	0.15	< 0.005	—	7.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.13	0.06	0.19	0.01	< 0.005	—	0.64
Total	—	—	—	—	—	—	—	—	—	—	—	1.6	0.73	2.3	0.17	< 0.005	—	7.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	1.5	0.67	2.1	0.15	< 0.005	—	7.0
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.13	0.06	0.19	0.01	< 0.005	—	0.64
Total	—	—	—	—	—	—	—	—	—	—	—	1.6	0.73	2.3	0.17	< 0.005	—	7.7
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	0.24	0.11	0.36	0.03	< 0.005	—	1.2
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.02	0.01	0.03	< 0.005	< 0.005	—	0.11
Total	—	—	—	—	—	—	—	—	—	—	—	0.27	0.12	0.39	0.03	< 0.005	—	1.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	265
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.77	0.00	0.77	0.08	0.00	—	2.7
Total	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	267
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	265
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.77	0.00	0.77	0.08	0.00	—	2.7
Total	—	—	—	—	—	—	—	—	—	—	—	76	0.00	76	7.6	0.00	—	267
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	13	0.00	13	1.3	0.00	—	44
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	0.13	0.00	0.13	0.01	0.00	—	0.44
Total	—	—	—	—	—	—	—	—	—	—	—	13	0.00	13	1.3	0.00	—	44

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.10	0.10
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.11	0.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Place of Worship	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.02	0.02

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	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
Demolition	Demolition	8/1/2026	8/29/2026	5.0	20	—
Site Preparation	Site Preparation	8/1/2026	8/21/2026	5.0	15	—
Grading	Grading	8/20/2026	9/30/2026	5.0	30	—

Building Construction	Building Construction	1/1/2027	12/31/2027	5.0	261	—
Paving	Paving	12/22/2027	12/31/2027	5.0	8.0	—
Architectural Coating	Architectural Coating	1/1/2028	3/1/2028	5.0	43	—
Underground Infrastructure/Utilities	Trenching	10/1/2026	12/31/2026	5.0	66	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37
Demolition	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Scrapers	Diesel	Average	3.0	8.0	423	0.48
Grading	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.0	367	0.29
Building Construction	Forklifts	Diesel	Average	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.0	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.0	7.0	84	0.37
Building Construction	Welders	Diesel	Average	1.00	8.0	46	0.45
Paving	Pavers	Diesel	Average	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48

Underground Infrastructure/Utilities	Excavators	Diesel	Average	2.0	8.0	36	0.38
Underground Infrastructure/Utilities	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37
Underground Infrastructure/Utilities	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.5	12	LDA,LDT1,LDT2
Demolition	Vendor	0.09	7.6	HHDT,MHDT
Demolition	Hauling	3.8	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	2.5	12	LDA,LDT1,LDT2
Site Preparation	Vendor	0.07	7.6	HHDT,MHDT
Site Preparation	Hauling	0.67	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	15	12	LDA,LDT1,LDT2
Grading	Vendor	0.10	7.6	HHDT,MHDT
Grading	Hauling	0.00	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	11	12	LDA,LDT1,LDT2
Building Construction	Vendor	4.3	7.6	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	12	LDA,LDT1,LDT2
Paving	Vendor	1.00	7.6	HHDT,MHDT

Paving	Hauling	19	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	2.2	12	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.6	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Underground Infrastructure/Utilities	Worker	10.0	12	LDA,LDT1,LDT2
Underground Infrastructure/Utilities	Vendor	—	7.6	HHDT,MHDT
Underground Infrastructure/Utilities	Hauling	0.00	20	HHDT
Underground Infrastructure/Utilities	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	3,139	1,046	36,941	12,314	—

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)

Demolition	0.00	0.00	0.00	300	0.00
Site Preparation	—	80	7.5	0.00	0.00
Grading	—	—	120	0.00	0.00
Paving	0.00	0.00	0.00	0.00	2.1

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Place of Worship	2.0	75%
Paving	Single Family Housing	0.02	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	45	0.03	< 0.005
2027	0.00	45	0.03	< 0.005
2028	0.00	45	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Place of Worship	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Single Family Housing	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Place of Worship	Wood Fireplaces	0	0
Place of Worship	Gas Fireplaces	0	0
Place of Worship	Propane Fireplaces	0	0
Place of Worship	Electric Fireplaces	0	0
Place of Worship	No Fireplaces	0	0
Place of Worship	Conventional Wood Stoves	0	0
Place of Worship	Catalytic Wood Stoves	0	0
Place of Worship	Non-Catalytic Wood Stoves	0	0
Place of Worship	Pellet Wood Stoves	0	0
Single Family Housing	Wood Fireplaces	0	0
Single Family Housing	Gas Fireplaces	0	0
Single Family Housing	Propane Fireplaces	0	0
Single Family Housing	Electric Fireplaces	0	0
Single Family Housing	No Fireplaces	0	0
Single Family Housing	Conventional Wood Stoves	0	0
Single Family Housing	Catalytic Wood Stoves	0	0
Single Family Housing	Non-Catalytic Wood Stoves	0	0
Single Family Housing	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)

undefined	3,139	1,046	36,941	12,314	—

5.10.3. Landscape Equipment

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Place of Worship	220,988	45	0.0330	0.0040	994,051
Single Family Housing	12,283	45	0.0330	0.0040	57,034

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Place of Worship	770,552	36,797
Single Family Housing	70,266	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Place of Worship	140	0.00
Single Family Housing	1.4	0.00

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
Place of Worship	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
Place of Worship	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Place of Worship	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
Place of Worship	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.5	7.5	20
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

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	16	annual days of extreme heat
Extreme Precipitation	5.1	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	8.9	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores 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	51
AQ-PM	19
AQ-DPM	77
Drinking Water	58
Lead Risk Housing	49
Pesticides	61
Toxic Releases	11
Traffic	89
Effect Indicators	—
CleanUp Sites	61
Groundwater	64

Haz Waste Facilities/Generators	62
Impaired Water Bodies	24
Solid Waste	9.7
Sensitive Population	—
Asthma	43
Cardio-vascular	44
Low Birth Weights	51
Socioeconomic Factor Indicators	—
Education	55
Housing	36
Linguistic	47
Poverty	41
Unemployment	14

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	72.73193892
Employed	58.03926601
Median HI	70.29385346
Education	—
Bachelor's or higher	49.49313486
High school enrollment	100
Preschool enrollment	19.62017195
Transportation	—
Auto Access	53.75336841
Active commuting	18.52944951

Social	—
2-parent households	43.2567689
Voting	73.80982933
Neighborhood	—
Alcohol availability	53.38123957
Park access	10.48376748
Retail density	56.89721545
Supermarket access	74.70807135
Tree canopy	36.53278583
Housing	—
Homeownership	72.97574747
Housing habitability	66.49557295
Low-inc homeowner severe housing cost burden	70.97395098
Low-inc renter severe housing cost burden	24.74015142
Uncrowded housing	79.21211344
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0
Asthma ER Admissions	57.2
High Blood Pressure	62.1
Cancer (excluding skin)	27.6
Asthma	58.2
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	40.0
Diagnosed Diabetes	57.0
Life Expectancy at Birth	43.9
Cognitively Disabled	70.6
Physically Disabled	77.4

Heart Attack ER Admissions	62.3
Mental Health Not Good	53.9
Chronic Kidney Disease	45.1
Obesity	58.7
Pedestrian Injuries	93.3
Physical Health Not Good	56.1
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	57.8
No Leisure Time for Physical Activity	56.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	43.3
English Speaking	62.2
Foreign-born	50.2
Outdoor Workers	13.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	89.3
Traffic Access	55.7
Other Indices	—
Hardship	36.6
Other Decision Support	—
2016 Voting	73.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	52
Healthy Places Index Score for Project Location (b)	58
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
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
Land Use	Project details per site plan and project applicant. Default landscape area for church land use maintained.
Construction: Construction Phases	Construction timeline provided by project engineer.
Construction: Off-Road Equipment	Equipment for site preparation, demolition, underground utilities, and grading based on information provided by the project engineer. Equipment for building construction, architectural coating, and paving based on model defaults. Water truck (off-highway truck) added for all demolition and earth moving activities

Construction: Trips and VMT	Haul trips for paving added, assuming 6 inches total uncompressed thickness of asphalt/aggregate (approximately 1,239 CY for 75% of paved area as asphalt) and 16 CY per load (77loads) for a tandem trailer aggregate haul truck. Vendor trips added to demolition (2 total trips), site preparation (1 total trip), grading (3 total trips) and paving (2 total trips) per memorandum "CalEEMod Construction Default Updates June 2023" posted on CalEEMod website homepage.
Construction: On-Road Fugitive Dust	0.5% of haul trip miles (approximately 500 feet) during demolition, site preparation, and grading assumed to be on unpaved on-site access roads.
Construction: Paving	Paved area provided by project applicant, drive aisles and parking area (asphalt) estimated from site plans.
Operations: Vehicle Data	No net increase in trips, replacing existing church use (LLG 2025).
Operations: Hearths	No fireplaces or wood stove proposed with project

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	0.57	6.7
Landscape Area	sq. ft	—	2,462
Lot Area	acre	0.65	0.00
Building Area	sq. ft	3,900	1,550
Landscape Area	sq. ft	23,426	0.00

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Site Preparation	Site Preparation	Start Date	8/30/2026	8/1/2026
Site Preparation	Site Preparation	End Date	9/13/2026	8/21/2026
Site Preparation	Site Preparation	Work Days per Phase	10.0	15
Grading	Grading	Start Date	9/14/2026	8/20/2026
Grading	Grading	End Date	10/12/2026	9/30/2026

Grading	Grading	Work Days per Phase	20	30
Building Construction	Building Construction	Start Date	10/13/2026	1/1/2027
Building Construction	Building Construction	End Date	8/31/2027	12/31/2027
Building Construction	Building Construction	Work Days per Phase	230	261
Paving	Paving	Start Date	9/1/2027	12/22/2027
Paving	Paving	End Date	9/29/2027	12/31/2027
Paving	Paving	Work Days per Phase	20	8.0
Architectural Coating	Architectural Coating	Start Date	9/30/2027	1/1/2028
Architectural Coating	Architectural Coating	End Date	10/28/2027	3/1/2028
Architectural Coating	Architectural Coating	Work Days per Phase	20	43

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Rubber Tired Dozers	Number per Day	2.0	1.00
Site Preparation	Rubber Tired Dozers	Number per Day	3.0	1.00

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Paving	Hauling	One-Way Trips per Day	0.00	19

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
Demolition	Hauling Trip Paved	%	100	95
Site Preparation	Hauling Trip Paved	%	100	95
Grading	Hauling Trip Paved	%	100	95

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Paving	Place of Worship	Area Paved	acres	0.00	2.0
Paving	Place of Worship	% Asphalt	%	0.00	75

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Place of Worship	Weekday Trip Rate	size/day	6.9	0.00
Place of Worship	Saturday Trip Rate	size/day	6.0	0.00
Place of Worship	Sunday Trip Rate	size/day	28	0.00
Single Family Housing	Weekday Trip Rate	size/day	9.4	0.00
Single Family Housing	Saturday Trip Rate	size/day	9.5	0.00
Single Family Housing	Sunday Trip Rate	size/day	8.6	0.00
Single Family Housing	Res H-W Trip Length	miles	13	0.00
Single Family Housing	Res H-S Trip Length	miles	5.4	0.00
Single Family Housing	Res H-O Trip Length	miles	5.6	0.00

Alexan Escondido Project - Residential Development Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Alexan Escondido Project - Residential Development
Construction Start Date	8/1/2026
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.2
Precipitation (days)	27
Location	33.09554789425401, -117.08296123392688
County	San Diego
City	Escondido
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6211
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.36

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
Condo/Townhouse High Rise	258	Dwelling Unit	3.4	312,034	50,135	—	828	—

Parking Lot	129	1000sqft	3.0	0.00	0.00	—	—	—
General Office Building	12	1000sqft	0.15	11,741	0.00	—	—	—
Recreational Swimming Pool	1.8	1000sqft	0.37	0.00	0.00	—	—	—
Enclosed Parking Structure	42	1000sqft	0.07	42,084	0.00	—	—	—
Other Non-Asphalt Surfaces	41	1000sqft	0.94	0.00	0.00	—	—	—
Other Asphalt Surfaces	14	1000sqft	0.33	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power

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.	34	33	34	33	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,533	10,533	0.45	0.68	13	10,671
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.5	3.7	34	30	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,526	10,526	0.45	0.41	0.21	10,660
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	6.8	6.6	7.8	15	0.02	0.24	1.3	1.6	0.22	0.32	0.55	—	3,531	3,531	0.15	0.15	2.4	3,581
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.2	1.2	1.4	2.7	< 0.005	0.04	0.25	0.29	0.04	0.06	0.10	—	585	585	0.03	0.02	0.40	593

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.5	3.7	34	30	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,533	10,533	0.45	0.41	4.9	10,671
2027	2.1	1.8	11	22	0.03	0.35	2.0	2.3	0.32	0.48	0.80	—	5,166	5,166	0.22	0.21	8.1	5,242
2028	34	33	21	33	0.06	0.62	2.9	3.5	0.56	0.72	1.3	—	9,536	9,536	0.35	0.68	13	9,760
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.5	3.7	34	30	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,526	10,526	0.45	0.41	0.13	10,660
2027	2.1	1.8	11	21	0.03	0.35	2.0	2.3	0.32	0.48	0.80	—	5,061	5,061	0.23	0.22	0.21	5,131
2028	2.0	1.7	11	20	0.03	0.31	2.0	2.3	0.29	0.48	0.76	—	5,008	5,008	0.17	0.21	0.19	5,075
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.61	0.50	4.5	4.6	0.01	0.18	0.94	1.1	0.16	0.24	0.40	—	1,348	1,348	0.06	0.04	0.23	1,363
2027	1.4	1.2	7.8	15	0.02	0.24	1.3	1.6	0.22	0.32	0.55	—	3,531	3,531	0.15	0.15	2.4	3,581
2028	6.8	6.6	5.8	11	0.02	0.17	1.1	1.2	0.15	0.26	0.41	—	2,731	2,731	0.09	0.12	1.7	2,771
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.09	0.82	0.84	< 0.005	0.03	0.17	0.20	0.03	0.04	0.07	—	223	223	0.01	0.01	0.04	226
2027	0.26	0.22	1.4	2.7	< 0.005	0.04	0.25	0.29	0.04	0.06	0.10	—	585	585	0.03	0.02	0.40	593
2028	1.2	1.2	1.1	2.0	< 0.005	0.03	0.20	0.23	0.03	0.05	0.08	—	452	452	0.02	0.02	0.29	459

2.3. Construction Emissions by Year, Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.5	3.7	34	30	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,533	10,533	0.45	0.41	4.9	10,671
2027	2.1	1.8	11	22	0.03	0.35	2.0	2.3	0.32	0.48	0.80	—	5,166	5,166	0.22	0.21	8.1	5,242
2028	34	33	21	33	0.06	0.62	2.9	3.5	0.56	0.72	1.3	—	9,536	9,536	0.35	0.68	13	9,760
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	4.5	3.7	34	30	0.09	1.3	9.1	10	1.2	2.1	3.3	—	10,526	10,526	0.45	0.41	0.13	10,660
2027	2.1	1.8	11	21	0.03	0.35	2.0	2.3	0.32	0.48	0.80	—	5,061	5,061	0.23	0.22	0.21	5,131
2028	2.0	1.7	11	20	0.03	0.31	2.0	2.3	0.29	0.48	0.76	—	5,008	5,008	0.17	0.21	0.19	5,075
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.61	0.50	4.5	4.6	0.01	0.18	0.94	1.1	0.16	0.24	0.40	—	1,348	1,348	0.06	0.04	0.23	1,363
2027	1.4	1.2	7.8	15	0.02	0.24	1.3	1.6	0.22	0.32	0.55	—	3,531	3,531	0.15	0.15	2.4	3,581
2028	6.8	6.6	5.8	11	0.02	0.17	1.1	1.2	0.15	0.26	0.41	—	2,731	2,731	0.09	0.12	1.7	2,771
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.11	0.09	0.82	0.84	< 0.005	0.03	0.17	0.20	0.03	0.04	0.07	—	223	223	0.01	0.01	0.04	226
2027	0.26	0.22	1.4	2.7	< 0.005	0.04	0.25	0.29	0.04	0.06	0.10	—	585	585	0.03	0.02	0.40	593
2028	1.2	1.2	1.1	2.0	< 0.005	0.03	0.20	0.23	0.03	0.05	0.08	—	452	452	0.02	0.02	0.29	459

2.4. Operations Emissions Compared Against Thresholds

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	15	15	4.3	57	0.11	0.13	9.4	9.5	0.12	2.4	2.5	146	11,309	11,455	15	0.46	28	12,001
Mit.	15	15	4.3	57	0.11	0.13	9.4	9.5	0.12	2.4	2.5	146	11,193	11,339	15	0.45	28	11,879
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	1%	2%	—	1%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13	13	4.5	38	0.10	0.12	9.4	9.5	0.11	2.4	2.5	146	10,800	10,946	15	0.48	2.9	11,474
Mit.	13	13	4.5	38	0.10	0.12	9.4	9.5	0.11	2.4	2.5	146	10,684	10,830	15	0.47	2.9	11,352
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	1%	2%	—	1%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14	14	4.5	46	0.10	0.12	9.2	9.4	0.12	2.3	2.5	146	10,894	11,040	15	0.47	13	11,577
Mit.	14	14	4.5	46	0.10	0.12	9.2	9.4	0.12	2.3	2.5	146	10,778	10,923	15	0.46	13	11,455
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	1%	2%	—	1%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.6	2.5	0.82	8.4	0.02	0.02	1.7	1.7	0.02	0.43	0.45	24	1,804	1,828	2.5	0.08	2.2	1,917
Mit.	2.6	2.5	0.82	8.4	0.02	0.02	1.7	1.7	0.02	0.43	0.45	24	1,784	1,808	2.5	0.08	2.2	1,896
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	1%	1%	1%	2%	—	1%

2.5. 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	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533
Area	9.3	9.2	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	49	49	< 0.005	< 0.005	—	49
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	870	870	0.18	0.02	—	879
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	15	15	4.3	57	0.11	0.13	9.4	9.5	0.12	2.4	2.5	146	11,309	11,455	15	0.46	28	12,001
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Area	7.5	7.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	870	870	0.18	0.02	—	879
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	13	13	4.5	38	0.10	0.12	9.4	9.5	0.11	2.4	2.5	146	10,800	10,946	15	0.48	2.9	11,474
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.8	5.3	3.9	38	0.10	0.07	9.2	9.3	0.07	2.3	2.4	—	9,990	9,990	0.48	0.40	11	10,133
Area	8.4	8.3	0.08	8.4	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	0.00	24	24	< 0.005	< 0.005	—	24
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	870	870	0.18	0.02	—	879
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	14	14	4.5	46	0.10	0.12	9.2	9.4	0.12	2.3	2.5	146	10,894	11,040	15	0.47	13	11,577
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678
Area	1.5	1.5	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.0	4.0	< 0.005	< 0.005	—	4.0
Energy	0.01	0.01	0.10	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	144	144	0.03	< 0.005	—	146
Water	—	—	—	—	—	—	—	—	—	—	—	3.6	1.7	5.2	0.37	0.01	—	17
Waste	—	—	—	—	—	—	—	—	—	—	—	21	0.00	21	2.1	0.00	—	72
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37
Total	2.6	2.5	0.82	8.4	0.02	0.02	1.7	1.7	0.02	0.43	0.45	24	1,804	1,828	2.5	0.08	2.2	1,917

2.6. Operations Emissions by Sector, Mitigated

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	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533
Area	9.3	9.2	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	49	49	< 0.005	< 0.005	—	49
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	754	754	0.10	0.01	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	15	15	4.3	57	0.11	0.13	9.4	9.5	0.12	2.4	2.5	146	11,193	11,339	15	0.45	28	11,879
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Area	7.5	7.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	754	754	0.10	0.01	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	13	13	4.5	38	0.10	0.12	9.4	9.5	0.11	2.4	2.5	146	10,684	10,830	15	0.47	2.9	11,352
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.8	5.3	3.9	38	0.10	0.07	9.2	9.3	0.07	2.3	2.4	—	9,990	9,990	0.48	0.40	11	10,133
Area	8.4	8.3	0.08	8.4	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	0.00	24	24	< 0.005	< 0.005	—	24
Energy	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	754	754	0.10	0.01	—	758
Water	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Waste	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Total	14	14	4.5	46	0.10	0.12	9.2	9.4	0.12	2.3	2.5	146	10,778	10,923	15	0.46	13	11,455
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678
Area	1.5	1.5	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.0	4.0	< 0.005	< 0.005	—	4.0
Energy	0.01	0.01	0.10	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	125	125	0.02	< 0.005	—	125
Water	—	—	—	—	—	—	—	—	—	—	—	3.6	1.7	5.2	0.37	0.01	—	17
Waste	—	—	—	—	—	—	—	—	—	—	—	21	0.00	21	2.1	0.00	—	72
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37
Total	2.6	2.5	0.82	8.4	0.02	0.02	1.7	1.7	0.02	0.43	0.45	24	1,784	1,808	2.5	0.08	2.2	1,896

3. Construction Emissions Details

3.1. Demolition (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	1.5	1.2	11	10	0.02	0.45	—	0.45	0.41	—	0.41	—	2,336	2,336	0.09	0.02	—	2,344
Demolition	—	—	—	—	—	—	0.37	0.37	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.64	0.63	< 0.005	0.03	—	0.03	0.02	—	0.02	—	141	141	0.01	< 0.005	—	141
Demolition	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23	23	< 0.005	< 0.005	—	23
Demolition	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	70	70	< 0.005	< 0.005	0.24	71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	0.01	2.3
Hauling	0.04	0.01	0.62	0.24	< 0.005	0.01	1.1	1.1	0.01	0.13	0.14	—	480	480	0.02	0.08	1.0	504

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.0	4.0	< 0.005	< 0.005	0.01	4.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	29	29	< 0.005	< 0.005	0.03	30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	4.8	4.8	< 0.005	< 0.005	< 0.005	5.0

3.2. Demolition (2026) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.5	1.2	11	10	0.02	0.45	—	0.45	0.41	—	0.41	—	2,336	2,336	0.09	0.02	—	2,344
Demolition	—	—	—	—	—	—	0.37	0.37	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.09	0.07	0.64	0.63	< 0.005	0.03	—	0.03	0.02	—	0.02	—	141	141	0.01	< 0.005	—	141
Demoliti on	—	—	—	—	—	—	0.02	0.02	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	0.02	0.01	0.12	0.11	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	23	23	< 0.005	< 0.005	—	23
Demoliti on	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.32	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	70	70	< 0.005	< 0.005	0.24	71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	0.01	2.3
Hauling	0.04	0.01	0.62	0.24	< 0.005	0.01	1.1	1.1	0.01	0.13	0.14	—	480	480	0.02	0.08	1.0	504
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.0	4.0	< 0.005	< 0.005	0.01	4.1
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Hauling	< 0.005	< 0.005	0.04	0.01	< 0.005	< 0.005	0.06	0.06	< 0.005	0.01	0.01	—	29	29	< 0.005	< 0.005	0.03	30
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.67
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	4.8	4.8	< 0.005	< 0.005	< 0.005	5.0

3.3. Site Preparation (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	0.91	8.3	7.1	0.01	0.37	—	0.37	0.34	—	0.34	—	1,379	1,379	0.06	0.01	—	1,384
Dust From Material Movement	—	—	—	—	—	—	2.6	2.6	—	1.3	1.3	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.34	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	57	57	< 0.005	< 0.005	—	57
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.01	0.01	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.4	9.4	< 0.005	< 0.005	—	9.4
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	23	23	< 0.005	< 0.005	0.08	24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.6	1.6	< 0.005	< 0.005	< 0.005	1.7
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.22	0.22	< 0.005	0.03	0.03	—	94	94	< 0.005	0.02	0.20	99
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	3.9	3.9	< 0.005	< 0.005	< 0.005	4.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67

3.4. Site Preparation (2026) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.1	0.91	8.3	7.1	0.01	0.37	—	0.37	0.34	—	0.34	—	1,379	1,379	0.06	0.01	—	1,384
Dust From Material Movement	—	—	—	—	—	—	2.6	2.6	—	1.3	1.3	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.34	0.29	< 0.005	0.02	—	0.02	0.01	—	0.01	—	57	57	< 0.005	< 0.005	—	57
Dust From Material Movement	—	—	—	—	—	—	0.11	0.11	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.4	9.4	< 0.005	< 0.005	—	9.4
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	23	23	< 0.005	< 0.005	0.08	24
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.6	1.6	< 0.005	< 0.005	< 0.005	1.7
Hauling	0.01	< 0.005	0.12	0.05	< 0.005	< 0.005	0.22	0.22	< 0.005	0.03	0.03	—	94	94	< 0.005	0.02	0.20	99
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.91	0.91	< 0.005	< 0.005	< 0.005	0.92
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	3.9	3.9	< 0.005	< 0.005	< 0.005	4.0
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.15	0.15	< 0.005	< 0.005	< 0.005	0.15
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.64	0.64	< 0.005	< 0.005	< 0.005	0.67

3.5. Grading (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	4.3	3.6	31	29	0.08	1.3	—	1.3	1.2	—	1.2	—	8,295	8,295	0.34	0.07	—	8,324
Dust From Material Movement	—	—	—	—	—	—	4.0	4.0	—	1.5	1.5	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.3	3.6	31	29	0.08	1.3	—	1.3	1.2	—	1.2	—	8,295	8,295	0.34	0.07	—	8,324
Dust From Material Movement	—	—	—	—	—	—	4.0	4.0	—	1.5	1.5	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.5	2.4	0.01	0.11	—	0.11	0.10	—	0.10	—	682	682	0.03	0.01	—	684
Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.06	0.05	0.47	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	113	113	< 0.005	< 0.005	—	113
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	< 0.005	0.49	142
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.5	2.5	< 0.005	< 0.005	0.01	2.6
Hauling	0.15	0.05	2.7	1.0	0.01	0.04	4.9	5.0	0.03	0.59	0.61	—	2,096	2,096	0.10	0.34	4.4	2,203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	132	132	0.01	0.01	0.01	133
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.5	2.5	< 0.005	< 0.005	< 0.005	2.6
Hauling	0.15	0.04	2.8	1.0	0.01	0.04	4.9	5.0	0.03	0.59	0.61	—	2,097	2,097	0.10	0.34	0.11	2,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.02	11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21
Hauling	0.01	< 0.005	0.23	0.09	< 0.005	< 0.005	0.38	0.38	< 0.005	0.05	0.05	—	172	172	0.01	0.03	0.16	181
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.8	1.8	< 0.005	< 0.005	< 0.005	1.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	29	29	< 0.005	< 0.005	0.03	30

3.6. Grading (2026) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.3	3.6	31	29	0.08	1.3	—	1.3	1.2	—	1.2	—	8,295	8,295	0.34	0.07	—	8,324
Dust From Material Movement	—	—	—	—	—	—	4.0	4.0	—	1.5	1.5	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	4.3	3.6	31	29	0.08	1.3	—	1.3	1.2	—	1.2	—	8,295	8,295	0.34	0.07	—	8,324
Dust From Material Movement	—	—	—	—	—	—	4.0	4.0	—	1.5	1.5	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.35	0.29	2.5	2.4	0.01	0.11	—	0.11	0.10	—	0.10	—	682	682	0.03	0.01	—	684

Dust From Material Movement	—	—	—	—	—	—	0.33	0.33	—	0.12	0.12	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.47	0.43	< 0.005	0.02	—	0.02	0.02	—	0.02	—	113	113	< 0.005	< 0.005	—	113
Dust From Material Movement	—	—	—	—	—	—	0.06	0.06	—	0.02	0.02	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.65	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	139	139	0.01	< 0.005	0.49	142
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.5	2.5	< 0.005	< 0.005	0.01	2.6
Hauling	0.15	0.05	2.7	1.0	0.01	0.04	4.9	5.0	0.03	0.59	0.61	—	2,096	2,096	0.10	0.34	4.4	2,203
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.05	0.57	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	132	132	0.01	0.01	0.01	133
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.5	2.5	< 0.005	< 0.005	< 0.005	2.6
Hauling	0.15	0.04	2.8	1.0	0.01	0.04	4.9	5.0	0.03	0.59	0.61	—	2,097	2,097	0.10	0.34	0.11	2,200
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.02	11
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.20	0.20	< 0.005	< 0.005	< 0.005	0.21

Hauling	0.01	< 0.005	0.23	0.09	< 0.005	< 0.005	0.38	0.38	< 0.005	0.05	0.05	—	172	172	0.01	0.03	0.16	181
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.8	1.8	< 0.005	< 0.005	< 0.005	1.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.03	0.03	< 0.005	< 0.005	< 0.005	0.03
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.07	0.07	< 0.005	0.01	0.01	—	29	29	< 0.005	< 0.005	0.03	30

3.7. Building Construction (2027) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.5	8.9	0.02	0.23	—	0.23	0.21	—	0.21	—	1,647	1,647	0.07	0.01	—	1,652

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.2	1.6	< 0.005	0.04	—	0.04	0.04	—	0.04	—	273	273	0.01	< 0.005	—	274
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.73	0.51	8.5	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,893	1,893	0.09	0.07	6.1	1,922
Vendor	0.06	0.03	1.1	0.52	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	875	875	0.03	0.12	2.0	915
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.79	0.71	0.64	7.5	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,788	1,788	0.10	0.07	0.16	1,812
Vendor	0.06	0.03	1.1	0.53	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	876	876	0.03	0.12	0.05	913
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.49	0.44	5.2	0.00	0.00	1.2	1.2	0.00	0.28	0.28	—	1,239	1,239	0.06	0.05	1.8	1,257
Vendor	0.04	0.02	0.78	0.36	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	601	601	0.02	0.08	0.58	628
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.95	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	205	205	0.01	0.01	0.30	208
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.10	104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2027) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	1.0	9.4	13	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.85	0.71	6.5	8.9	0.02	0.23	—	0.23	0.21	—	0.21	—	1,647	1,647	0.07	0.01	—	1,652
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.13	1.2	1.6	< 0.005	0.04	—	0.04	0.04	—	0.04	—	273	273	0.01	< 0.005	—	274

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.80	0.73	0.51	8.5	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,893	1,893	0.09	0.07	6.1	1,922
Vendor	0.06	0.03	1.1	0.52	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	875	875	0.03	0.12	2.0	915
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.79	0.71	0.64	7.5	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,788	1,788	0.10	0.07	0.16	1,812
Vendor	0.06	0.03	1.1	0.53	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	876	876	0.03	0.12	0.05	913
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.54	0.49	0.44	5.2	0.00	0.00	1.2	1.2	0.00	0.28	0.28	—	1,239	1,239	0.06	0.05	1.8	1,257
Vendor	0.04	0.02	0.78	0.36	< 0.005	0.01	0.16	0.17	0.01	0.04	0.05	—	601	601	0.02	0.08	0.58	628
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.08	0.95	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	205	205	0.01	0.01	0.30	208
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	100	100	< 0.005	0.01	0.10	104
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2028) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	0.99	8.9	13	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	0.99	8.9	13	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.50	4.5	6.6	0.01	0.15	—	0.15	0.14	—	0.14	—	1,215	1,215	0.05	0.01	—	1,219
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.83	1.2	< 0.005	0.03	—	0.03	0.03	—	0.03	—	201	201	0.01	< 0.005	—	202
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.78	0.71	0.51	8.0	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,860	1,860	0.03	0.07	5.6	1,886
Vendor	0.06	0.03	1.0	0.50	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	853	853	0.03	0.12	1.7	892
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.77	0.70	0.58	7.0	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,756	1,756	0.04	0.07	0.14	1,778
Vendor	0.06	0.03	1.1	0.51	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	854	854	0.03	0.12	0.05	891
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.29	3.6	0.00	0.00	0.87	0.87	0.00	0.20	0.20	—	898	898	0.02	0.03	1.2	910
Vendor	0.03	0.01	0.55	0.26	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	433	433	0.02	0.06	0.38	452
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	149	149	< 0.005	0.01	0.20	151
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	72	72	< 0.005	0.01	0.06	75
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2028) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	0.99	8.9	13	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.2	0.99	8.9	13	0.02	0.30	—	0.30	0.28	—	0.28	—	2,397	2,397	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.60	0.50	4.5	6.6	0.01	0.15	—	0.15	0.14	—	0.14	—	1,215	1,215	0.05	0.01	—	1,219
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.83	1.2	< 0.005	0.03	—	0.03	0.03	—	0.03	—	201	201	0.01	< 0.005	—	202
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.78	0.71	0.51	8.0	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,860	1,860	0.03	0.07	5.6	1,886
Vendor	0.06	0.03	1.0	0.50	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	853	853	0.03	0.12	1.7	892
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.77	0.70	0.58	7.0	0.00	0.00	1.8	1.8	0.00	0.41	0.41	—	1,756	1,756	0.04	0.07	0.14	1,778
Vendor	0.06	0.03	1.1	0.51	0.01	0.01	0.23	0.25	0.01	0.06	0.08	—	854	854	0.03	0.12	0.05	891
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.39	0.35	0.29	3.6	0.00	0.00	0.87	0.87	0.00	0.20	0.20	—	898	898	0.02	0.03	1.2	910
Vendor	0.03	0.01	0.55	0.26	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	433	433	0.02	0.06	0.38	452
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.66	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	149	149	< 0.005	0.01	0.20	151
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	72	72	< 0.005	0.01	0.06	75
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2028) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.6	9.9	0.01	0.26	—	0.26	0.24	—	0.24	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.1	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Roa Equipment	0.02	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33	33	< 0.005	< 0.005	—	33
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Roa d Equipm ent	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.5	5.5	< 0.005	< 0.005	—	5.5
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.58	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	< 0.005	< 0.005	0.40	137
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.9	5.9	< 0.005	< 0.005	0.01	6.1
Hauling	0.19	0.06	3.5	1.4	0.02	0.05	0.77	0.82	0.04	0.21	0.25	—	2,775	2,775	0.13	0.45	5.2	2,917
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.8	2.8	< 0.005	< 0.005	< 0.005	2.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61	61	< 0.005	0.01	0.05	64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.01	11

3.12. Paving (2028) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.6	9.9	0.01	0.26	—	0.26	0.24	—	0.24	—	1,511	1,511	0.06	0.01	—	1,516
Paving	1.1	1.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	33	33	< 0.005	< 0.005	—	33
Paving	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	5.5	5.5	< 0.005	< 0.005	—	5.5
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.04	0.58	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	135	135	< 0.005	< 0.005	0.40	137
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	5.9	5.9	< 0.005	< 0.005	0.01	6.1
Hauling	0.19	0.06	3.5	1.4	0.02	0.05	0.77	0.82	0.04	0.21	0.25	—	2,775	2,775	0.13	0.45	5.2	2,917
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.8	2.8	< 0.005	< 0.005	< 0.005	2.8
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.13
Hauling	< 0.005	< 0.005	0.08	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	61	61	< 0.005	0.01	0.05	64
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.47
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Hauling	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10	10	< 0.005	< 0.005	0.01	11

3.13. Architectural Coating (2028) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134

Architectural	31	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24	24	< 0.005	< 0.005	—	24
Architectural Coatings	5.6	5.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.0	4.0	< 0.005	< 0.005	—	4.0
Architectural Coatings	1.0	1.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.10	1.6	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	372	372	0.01	0.01	1.1	377
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	64	64	< 0.005	< 0.005	0.09	65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.01	11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2028) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.11	0.81	1.1	< 0.005	0.02	—	0.02	0.01	—	0.01	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	31	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24	24	< 0.005	< 0.005	—	24
Architectural Coatings	5.6	5.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.03	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.0	4.0	< 0.005	< 0.005	—	4.0
Architectural Coatings	1.0	1.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.14	0.10	1.6	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	372	372	0.01	0.01	1.1	377
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	64	64	< 0.005	< 0.005	0.09	65
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11	11	< 0.005	< 0.005	0.01	11
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Underground Utilities (2026) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	0.52	4.4	7.2	0.01	0.15	—	0.15	0.14	—	0.14	—	1,533	1,533	0.06	0.01	—	1,538
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.68	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	234	234	0.01	< 0.005	—	235

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39	39	< 0.005	< 0.005	—	39
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88	88	< 0.005	< 0.005	0.01	89
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14	14	< 0.005	< 0.005	0.02	14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	< 0.005	2.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Underground Utilities (2026) - Mitigated

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

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.62	0.52	4.4	7.2	0.01	0.15	—	0.15	0.14	—	0.14	—	1,533	1,533	0.06	0.01	—	1,538
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.08	0.68	1.1	< 0.005	0.02	—	0.02	0.02	—	0.02	—	234	234	0.01	< 0.005	—	235
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	39	39	< 0.005	< 0.005	—	39
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.03	0.38	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	88	88	< 0.005	< 0.005	0.01	89

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14	14	< 0.005	< 0.005	0.02	14
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.2	2.2	< 0.005	< 0.005	< 0.005	2.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Underground Utilities (2027) - 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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	4.2	7.2	0.01	0.13	—	0.13	0.12	—	0.12	—	1,533	1,533	0.06	0.01	—	1,538
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipm	0.02	0.01	0.12	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	42	42	< 0.005	< 0.005	—	42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.0	7.0	< 0.005	< 0.005	—	7.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	86	86	< 0.005	< 0.005	0.01	87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.4	2.4	< 0.005	< 0.005	< 0.005	2.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.18. Underground Utilities (2027) - Mitigated

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
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	0.51	4.2	7.2	0.01	0.13	—	0.13	0.12	—	0.12	—	1,533	1,533	0.06	0.01	—	1,538
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	42	42	< 0.005	< 0.005	—	42
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.0	7.0	< 0.005	< 0.005	—	7.0
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.03	0.03	0.36	0.00	0.00	0.08	0.08	0.00	0.02	0.02	—	86	86	< 0.005	< 0.005	0.01	87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.4	2.4	< 0.005	< 0.005	< 0.005	2.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.39	0.39	< 0.005	< 0.005	< 0.005	0.40
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678

4.1.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.9	5.5	3.6	40	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	10,381	10,381	0.46	0.39	26	10,533
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	5.9	5.4	3.9	38	0.10	0.07	9.4	9.5	0.07	2.4	2.5	—	9,920	9,920	0.49	0.41	0.66	10,055
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse High Rise	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	1.1	0.97	0.71	6.8	0.02	0.01	1.7	1.7	0.01	0.43	0.44	—	1,654	1,654	0.08	0.07	1.8	1,678

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T High Rise	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.08	0.01	—	113
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14	14	0.01	< 0.005	—	15
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	24	24	0.02	< 0.005	—	25
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	18	18	0.01	< 0.005	—	19
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	164	164	0.12	0.01	—	172
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	108	108	0.08	0.01	—	113
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14	14	0.01	< 0.005	—	15
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	24	24	0.02	< 0.005	—	25

Recreational	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	18	18	0.01	< 0.005	—	19
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	164	164	0.12	0.01	—	172
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	18	18	0.01	< 0.005	—	19
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3	< 0.005	< 0.005	—	2.4
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	4.0	4.0	< 0.005	< 0.005	—	4.2
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	3.0	3.0	< 0.005	< 0.005	—	3.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	27	27	0.02	< 0.005	—	28

4.2.2. Electricity Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14	14	0.01	< 0.005	—	15
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16	16	0.01	< 0.005	—	16
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	18	18	0.01	< 0.005	—	19
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	—	48	48	0.03	< 0.005	—	50
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	14	14	0.01	< 0.005	—	15
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	16	16	0.01	< 0.005	—	16
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	18	18	0.01	< 0.005	—	19
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	48	48	0.03	< 0.005	—	50
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3	< 0.005	< 0.005	—	2.4

General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	2.6	2.6	< 0.005	< 0.005	—	2.7
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	—	3.0	3.0	< 0.005	< 0.005	—	3.1
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	7.9	7.9	0.01	< 0.005	—	8.3

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.05	0.03	0.46	0.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	585	585	0.05	< 0.005	—	587
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	121

Recreati Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	706	706	0.06	< 0.005	—	708
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.05	0.03	0.46	0.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	585	585	0.05	< 0.005	—	587
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	121
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	706	706	0.06	< 0.005	—	708
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.01	< 0.005	0.08	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97	97	0.01	< 0.005	—	97
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20	20	< 0.005	< 0.005	—	20
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.10	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	117	117	0.01	< 0.005	—	117

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.05	0.03	0.46	0.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	585	585	0.05	< 0.005	—	587
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	121
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	706	706	0.06	< 0.005	—	708
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse High Rise	0.05	0.03	0.46	0.20	< 0.005	0.04	—	0.04	0.04	—	0.04	—	585	585	0.05	< 0.005	—	587
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	0.01	0.01	0.10	0.08	< 0.005	0.01	—	0.01	0.01	—	0.01	—	120	120	0.01	< 0.005	—	121
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.07	0.03	0.56	0.28	< 0.005	0.04	—	0.04	0.04	—	0.04	—	706	706	0.06	< 0.005	—	708
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	0.01	< 0.005	0.08	0.04	< 0.005	0.01	—	0.01	0.01	—	0.01	—	97	97	0.01	< 0.005	—	97
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
General Office Building	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20	20	< 0.005	< 0.005	—	20

Recreational	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.01	0.01	0.10	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	117	117	0.01	< 0.005	—	117

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	6.9	6.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.8	1.7	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49	49	< 0.005	< 0.005	—	49

Total	9.3	9.2	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	49	49	< 0.005	< 0.005	—	49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	6.9	6.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.5	7.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	1.3	1.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.15	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.0	4.0	< 0.005	< 0.005	—	4.0
Total	1.5	1.5	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.0	4.0	< 0.005	< 0.005	—	4.0

4.3.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	6.9	6.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.8	1.7	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	—	49	49	< 0.005	< 0.005	—	49
Total	9.3	9.2	0.16	17	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	49	49	< 0.005	< 0.005	—	49
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	6.9	6.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.56	0.56	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	7.5	7.5	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	1.3	1.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.10	0.10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.16	0.15	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.0	4.0	< 0.005	< 0.005	—	4.0
Total	1.5	1.5	0.01	1.5	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.0	4.0	< 0.005	< 0.005	—	4.0

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	17	8.2	26	1.8	0.04	—	83
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.0	1.8	5.8	0.41	0.01	—	19
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.20	0.09	0.29	0.02	< 0.005	—	0.96
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	17	8.2	26	1.8	0.04	—	83
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.0	1.8	5.8	0.41	0.01	—	19
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.20	0.09	0.29	0.02	< 0.005	—	0.96
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T High Rise	—	—	—	—	—	—	—	—	—	—	—	2.9	1.4	4.2	0.30	0.01	—	14
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.29	0.95	0.07	< 0.005	—	3.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.03	0.01	0.05	< 0.005	< 0.005	—	0.16
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.6	1.7	5.2	0.37	0.01	—	17

4.4.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	17	8.2	26	1.8	0.04	—	83

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.0	1.8	5.8	0.41	0.01	—	19
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.20	0.09	0.29	0.02	< 0.005	—	0.96
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	17	8.2	26	1.8	0.04	—	83
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	4.0	1.8	5.8	0.41	0.01	—	19

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.20	0.09	0.29	0.02	< 0.005	—	0.96
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	22	10	32	2.2	0.05	—	103
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	2.9	1.4	4.2	0.30	0.01	—	14
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.66	0.29	0.95	0.07	< 0.005	—	3.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.03	0.01	0.05	< 0.005	< 0.005	—	0.16
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	3.6	1.7	5.2	0.37	0.01	—	17

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	12	0.00	—	414
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.9	0.00	5.9	0.59	0.00	—	21
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	12	0.00	—	414
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.9	0.00	5.9	0.59	0.00	—	21
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T High Rise	—	—	—	—	—	—	—	—	—	—	—	20	0.00	20	2.0	0.00	—	69
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	0.00	—	3.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	21	0.00	21	2.1	0.00	—	72

4.5.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	12	0.00	—	414

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.9	0.00	5.9	0.59	0.00	—	21
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	118	0.00	118	12	0.00	—	414
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	5.9	0.00	5.9	0.59	0.00	—	21

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	124	0.00	124	12	0.00	—	434
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	20	0.00	20	2.0	0.00	—	69
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
General Office Building	—	—	—	—	—	—	—	—	—	—	—	0.97	0.00	0.97	0.10	0.00	—	3.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Enclosed Parking Structure	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	21	0.00	21	2.1	0.00	—	72

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.2	2.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.2	2.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37

4.6.2. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/Townhou	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.2	2.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.2	2.2
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.3	2.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse High Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37
General Office Building	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	< 0.005	< 0.005

Recreational	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.37	0.37

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

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	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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
Demolition	Demolition	8/1/2026	9/1/2026	5.0	22	—
Site Preparation	Site Preparation	8/1/2026	8/21/2026	5.0	15	—

Grading	Grading	9/2/2026	10/13/2026	5.0	30	—
Building Construction	Building Construction	1/15/2027	9/15/2028	5.0	436	—
Paving	Paving	4/19/2028	4/30/2028	5.0	8.0	—
Architectural Coating	Architectural Coating	5/1/2028	7/31/2028	5.0	66	—
Underground Utilities	Trenching	10/15/2026	1/14/2027	5.0	66	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37
Demolition	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Scrapers	Diesel	Average	3.0	8.0	423	0.48
Grading	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.0	367	0.29
Building Construction	Forklifts	Diesel	Average	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.0	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.0	7.0	84	0.37
Building Construction	Welders	Diesel	Average	1.00	8.0	46	0.45
Paving	Pavers	Diesel	Average	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48

Underground Utilities	Excavators	Diesel	Average	2.0	8.0	84	0.37
Underground Utilities	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37
Underground Utilities	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37
Demolition	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Site Preparation	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Graders	Diesel	Average	1.00	8.0	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.0	367	0.40
Grading	Scrapers	Diesel	Average	3.0	8.0	423	0.48
Grading	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.0	367	0.29
Building Construction	Forklifts	Diesel	Average	3.0	8.0	82	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.0	14	0.74
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3.0	7.0	84	0.37
Building Construction	Welders	Diesel	Average	1.00	8.0	46	0.45
Paving	Pavers	Diesel	Average	2.0	8.0	81	0.42
Paving	Paving Equipment	Diesel	Average	2.0	8.0	89	0.36
Paving	Rollers	Diesel	Average	2.0	8.0	36	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.0	37	0.48
Underground Utilities	Excavators	Diesel	Average	2.0	8.0	84	0.37
Underground Utilities	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.0	84	0.37

Underground Utilities	Off-Highway Trucks	Diesel	Average	1.00	4.0	376	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.5	12	LDA,LDT1,LDT2
Demolition	Vendor	0.09	7.6	HHDT,MHDT
Demolition	Hauling	6.8	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	2.5	12	LDA,LDT1,LDT2
Site Preparation	Vendor	0.07	7.6	HHDT,MHDT
Site Preparation	Hauling	1.3	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	15	12	LDA,LDT1,LDT2
Grading	Vendor	0.10	7.6	HHDT,MHDT
Grading	Hauling	30	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	207	12	LDA,LDT1,LDT2
Building Construction	Vendor	36	7.6	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	12	LDA,LDT1,LDT2
Paving	Vendor	0.25	7.6	HHDT,MHDT
Paving	Hauling	42	20	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	41	12	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.6	HHDT,MHDT

Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Underground Utilities	Worker	10.0	12	LDA,LDT1,LDT2
Underground Utilities	Vendor	—	7.6	HHDT,MHDT
Underground Utilities	Hauling	0.00	20	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	Worker	7.5	12	LDA,LDT1,LDT2
Demolition	Vendor	0.09	7.6	HHDT,MHDT
Demolition	Hauling	6.8	20	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	Worker	2.5	12	LDA,LDT1,LDT2
Site Preparation	Vendor	0.07	7.6	HHDT,MHDT
Site Preparation	Hauling	1.3	20	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	Worker	15	12	LDA,LDT1,LDT2
Grading	Vendor	0.10	7.6	HHDT,MHDT
Grading	Hauling	30	20	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	Worker	207	12	LDA,LDT1,LDT2
Building Construction	Vendor	36	7.6	HHDT,MHDT
Building Construction	Hauling	0.00	20	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	Worker	15	12	LDA,LDT1,LDT2
Paving	Vendor	0.25	7.6	HHDT,MHDT
Paving	Hauling	42	20	HHDT

Paving	Onsite truck	—	—	HHDT
Architectural Coating	Worker	41	12	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.6	HHDT,MHDT
Architectural Coating	Hauling	0.00	20	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Underground Utilities	Worker	10.0	12	LDA,LDT1,LDT2
Underground Utilities	Vendor	—	7.6	HHDT,MHDT
Underground Utilities	Hauling	0.00	20	HHDT
Underground Utilities	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%

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	631,869	210,623	17,759	5,887	11,265

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (Cubic Yards)	Material Exported (Cubic Yards)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	600	0.00

Site Preparation	—	160	7.5	0.00	0.00
Grading	—	7,150	124	0.00	0.00
Paving	0.00	0.00	0.00	0.00	4.3

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Phase Name	Land Use	Area Paved (acres)	% Asphalt
Paving	Condo/Townhouse High Rise	0.00	0%
Paving	Parking Lot	3.0	100%
Paving	General Office Building	0.00	0%
Paving	Recreational Swimming Pool	0.00	0%
Paving	Enclosed Parking Structure	0.07	0%
Paving	Other Non-Asphalt Surfaces	0.94	0%
Paving	Other Asphalt Surfaces	0.33	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	0.00	45	0.03	< 0.005
2027	0.00	45	0.03	< 0.005
2028	0.00	45	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse High Rise	1,548	1,548	1,548	565,020	13,313	13,313	13,313	4,859,172
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse High Rise	1,548	1,548	1,548	565,020	13,313	13,313	13,313	4,859,172
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
General Office Building	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Enclosed Parking Structure	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

Land Use	Hearth Type	Unmitigated (number)	Mitigated (number)
Condo/Townhouse High Rise	Wood Fireplaces	0	0
Condo/Townhouse High Rise	Gas Fireplaces	0	0
Condo/Townhouse High Rise	Propane Fireplaces	0	0
Condo/Townhouse High Rise	Electric Fireplaces	0	0
Condo/Townhouse High Rise	No Fireplaces	258	258
Condo/Townhouse High Rise	Conventional Wood Stoves	0	0
Condo/Townhouse High Rise	Catalytic Wood Stoves	0	0
Condo/Townhouse High Rise	Non-Catalytic Wood Stoves	0	0
Condo/Townhouse High Rise	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
General Office Building	Wood Fireplaces	0	0
General Office Building	Gas Fireplaces	0	0
General Office Building	Propane Fireplaces	0	0
General Office Building	Electric Fireplaces	0	0
General Office Building	No Fireplaces	0	0
General Office Building	Conventional Wood Stoves	0	0

General Office Building	Catalytic Wood Stoves	0	0
General Office Building	Non-Catalytic Wood Stoves	0	0
General Office Building	Pellet Wood Stoves	0	0
Recreational Swimming Pool	Wood Fireplaces	0	0
Recreational Swimming Pool	Gas Fireplaces	0	0
Recreational Swimming Pool	Propane Fireplaces	0	0
Recreational Swimming Pool	Electric Fireplaces	0	0
Recreational Swimming Pool	No Fireplaces	0	0
Recreational Swimming Pool	Conventional Wood Stoves	0	0
Recreational Swimming Pool	Catalytic Wood Stoves	0	0
Recreational Swimming Pool	Non-Catalytic Wood Stoves	0	0
Recreational Swimming Pool	Pellet Wood Stoves	0	0
Enclosed Parking Structure	Wood Fireplaces	0	0
Enclosed Parking Structure	Gas Fireplaces	0	0
Enclosed Parking Structure	Propane Fireplaces	0	0
Enclosed Parking Structure	Electric Fireplaces	0	0
Enclosed Parking Structure	No Fireplaces	0	0
Enclosed Parking Structure	Conventional Wood Stoves	0	0
Enclosed Parking Structure	Catalytic Wood Stoves	0	0
Enclosed Parking Structure	Non-Catalytic Wood Stoves	0	0
Enclosed Parking Structure	Pellet Wood Stoves	0	0
Other Non-Asphalt Surfaces	Wood Fireplaces	0	0
Other Non-Asphalt Surfaces	Gas Fireplaces	0	0
Other Non-Asphalt Surfaces	Propane Fireplaces	0	0
Other Non-Asphalt Surfaces	Electric Fireplaces	0	0
Other Non-Asphalt Surfaces	No Fireplaces	0	0
Other Non-Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Non-Asphalt Surfaces	Catalytic Wood Stoves	0	0

Other Non-Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Non-Asphalt Surfaces	Pellet Wood Stoves	0	0
Other Asphalt Surfaces	Wood Fireplaces	0	0
Other Asphalt Surfaces	Gas Fireplaces	0	0
Other Asphalt Surfaces	Propane Fireplaces	0	0
Other Asphalt Surfaces	Electric Fireplaces	0	0
Other Asphalt Surfaces	No Fireplaces	0	0
Other Asphalt Surfaces	Conventional Wood Stoves	0	0
Other Asphalt Surfaces	Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	Non-Catalytic Wood Stoves	0	0
Other Asphalt Surfaces	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)
undefined	631,869	210,623	17,759	5,887	11,265

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse High Rise	874,844	45	0.0330	0.0040	1,826,237
Parking Lot	113,086	45	0.0330	0.0040	0.00
General Office Building	194,837	45	0.0330	0.0040	375,982
Recreational Swimming Pool	0.00	45	0.0330	0.0040	0.00
Enclosed Parking Structure	147,354	45	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	45	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45	0.0330	0.0040	0.00

5.11.2. Mitigated

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)
Condo/Townhouse High Rise	0.00	45	0.0330	0.0040	1,826,237
Parking Lot	113,086	45	0.0330	0.0040	0.00
General Office Building	126,322	45	0.0330	0.0040	375,982
Recreational Swimming Pool	0.00	45	0.0330	0.0040	0.00
Enclosed Parking Structure	147,354	45	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	45	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	45	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)

Condo/Townhouse High Rise	9,064,333	915,720
Parking Lot	0.00	0.00
General Office Building	2,086,772	0.00
Recreational Swimming Pool	104,979	0.00
Enclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse High Rise	9,064,333	915,720
Parking Lot	0.00	0.00
General Office Building	2,086,772	0.00
Recreational Swimming Pool	104,979	0.00
Enclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse High Rise	219	0.00
Parking Lot	0.00	0.00
General Office Building	11	0.00
Recreational Swimming Pool	0.00	0.00
Enclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00

Other Asphalt Surfaces	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse High Rise	219	0.00
Parking Lot	0.00	0.00
General Office Building	11	0.00
Recreational Swimming Pool	0.00	0.00
Enclosed Parking Structure	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

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
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse High Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.5	2.5	10.0
Condo/Townhouse High Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.0	4.0	18
Recreational Swimming Pool	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

Equipment Type	Fuel Type

—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

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

5.18.1.2. Mitigated

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)

5.18.2.2. Mitigated

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	16	annual days of extreme heat
Extreme Precipitation	5.1	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	8.9	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores 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	51

AQ-PM	19
AQ-DPM	77
Drinking Water	58
Lead Risk Housing	49
Pesticides	61
Toxic Releases	11
Traffic	89
Effect Indicators	—
CleanUp Sites	61
Groundwater	64
Haz Waste Facilities/Generators	62
Impaired Water Bodies	24
Solid Waste	9.7
Sensitive Population	—
Asthma	43
Cardio-vascular	44
Low Birth Weights	51
Socioeconomic Factor Indicators	—
Education	55
Housing	36
Linguistic	47
Poverty	41
Unemployment	14

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	72.73193892
Employed	58.03926601
Median HI	70.29385346
Education	—
Bachelor's or higher	49.49313486
High school enrollment	100
Preschool enrollment	19.62017195
Transportation	—
Auto Access	53.75336841
Active commuting	18.52944951
Social	—
2-parent households	43.2567689
Voting	73.80982933
Neighborhood	—
Alcohol availability	53.38123957
Park access	10.48376748
Retail density	56.89721545
Supermarket access	74.70807135
Tree canopy	36.53278583
Housing	—
Homeownership	72.97574747
Housing habitability	66.49557295
Low-inc homeowner severe housing cost burden	70.97395098
Low-inc renter severe housing cost burden	24.74015142
Uncrowded housing	79.21211344
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0

Asthma ER Admissions	57.2
High Blood Pressure	62.1
Cancer (excluding skin)	27.6
Asthma	58.2
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	40.0
Diagnosed Diabetes	57.0
Life Expectancy at Birth	43.9
Cognitively Disabled	70.6
Physically Disabled	77.4
Heart Attack ER Admissions	62.3
Mental Health Not Good	53.9
Chronic Kidney Disease	45.1
Obesity	58.7
Pedestrian Injuries	93.3
Physical Health Not Good	56.1
Stroke	51.7
Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	57.8
No Leisure Time for Physical Activity	56.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	43.3
English Speaking	62.2
Foreign-born	50.2

Outdoor Workers	13.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	89.3
Traffic Access	55.7
Other Indices	—
Hardship	36.6
Other Decision Support	—
2016 Voting	73.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	52
Healthy Places Index Score for Project Location (b)	58
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
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
Land Use	Land uses, building area, landscaping, and lot acreage per project description and Architectural Drawing Package. Population estimated from City General Plan Housing Element: 3.21 residents/DU. General Office Building = leasing, amenities, and restrooms. Parking Lot = all outdoor parking, driveways, and sidewalks. Enclosed Parking Structure = all garages. Other Asphalt Surfaces = off-site improvements in the street ROW.
Construction: Construction Phases	Construction timeline provided by project engineer.
Construction: Off-Road Equipment	Equipment for site preparation, demolition, underground utilities, and grading based on information provided by the project engineer. Equipment for building construction, architectural coating, and paving based on model defaults. Water truck (off-highway truck) added for all demolition and earth moving activities.
Construction: Dust From Material Movement	Per project engineer, 10 truckloads (160 CY) vegetation/debris exported during site preparation and 7,150 CY soil exported during grading.
Construction: Trips and VMT	Haul trips for paving added, assuming 6 inches total uncompressed thickness of asphalt/aggregate (approximately 2,657 CY) and 16 CY per load (166 loads) for a tandem trailer aggregate haul truck. Vendor trips added to demolition (2 total trips), site preparation (1 total trip), grading (3 total trips) and paving (2 total trips) per memorandum "CalEEMod Construction Default Updates June 2023" posted on CalEEMod website homepage.
Construction: On-Road Fugitive Dust	0.5% of haul trip miles (approximately 500 feet) during demolition, site preparation, and grading assumed to be on unpaved on-site access roads.
Construction: Paving	Parking lots, driveways (Parking Lot) and ROW improvements (Other Asphalt Surfaces) 100% asphalt. Garage areas (Enclosed Parking Structure) and hardscape (Other Non-Asphalt Surfaces) 100% concrete.
Operations: Vehicle Data	Trip generation and mitigated trip length set per the project VMT and Local Mobility Analysis (LLG 2025).
Operations: Hearths	No hearths per project description (project design feature).
Operations: Solid Waste	Solid waste for swimming pool included with Condo/Townhouse land use (not a public swimming pool).

8.3. Land Use

Model Parameter	Units	Default Value	New Value
Lot Area	acre	4.0	3.4
Building Area	sq. ft	247,680	312,034
Landscape Area	sq. ft	—	50,135
Population	people	720	828
Lot Area	acre	0.27	0.15
Landscape Area	sq. ft	—	0.00
Lot Area	acre	0.04	0.37
Building Area	sq. ft	1,775	0.00
Landscape Area	sq. ft	—	0.00
Lot Area	acre	0.97	0.07
Landscape Area	sq. ft	—	0.00

8.4. Construction

8.4.1. Construction Phases

Phase Type	Phase Name	Model Parameter	Default Value	New Value
Demolition	Demolition	End Date	8/29/2026	9/1/2026
Demolition	Demolition	Work Days per Phase	20	22
Site Preparation	Site Preparation	Start Date	8/30/2026	8/1/2026
Site Preparation	Site Preparation	End Date	9/13/2026	8/21/2026
Site Preparation	Site Preparation	Work Days per Phase	10.0	15
Grading	Grading	Start Date	9/14/2026	9/2/2026
Grading	Grading	End Date	10/12/2026	10/13/2026
Grading	Grading	Work Days per Phase	20	30
Building Construction	Building Construction	Start Date	10/13/2026	1/15/2027
Building Construction	Building Construction	End Date	8/31/2027	9/15/2028
Building Construction	Building Construction	Work Days per Phase	230	436

Paving	Paving	Start Date	9/1/2027	4/19/2028
Paving	Paving	End Date	9/29/2027	4/30/2028
Paving	Paving	Work Days per Phase	20	8.0
Architectural Coating	Architectural Coating	Start Date	9/30/2027	5/1/2028
Architectural Coating	Architectural Coating	End Date	10/28/2027	7/31/2028
Architectural Coating	Architectural Coating	Work Days per Phase	20	66

8.4.2. Off-Road Equipment

Phase Name	Equipment Type	Model Parameter	Default Value	New Value
Demolition	Rubber Tired Dozers	Number per Day	2.0	1.00
Site Preparation	Rubber Tired Dozers	Number per Day	3.0	1.00

8.4.4. Dust from Material Movement

Phase Name	Model Parameter	Units	Default Value	New Value
Grading	Material Exported	Cubic Yards	—	7,150
Grading	Total Acres Graded	acres	120	124

8.4.6. Trips and VMT

Phase Name	Trip Type	Model Parameter	Default Value	New Value
Paving	Hauling	One-Way Trips per Day	0.00	42

8.4.7. On-Road Fugitive Dust

Phase Name	Model Parameter	Units	Default Value	New Value
Demolition	Hauling Trip Paved	%	100	100
Site Preparation	Hauling Trip Paved	%	100	100
Grading	Hauling Trip Paved	%	100	100

8.4.9. Paving

Phase Name	Land Use	Model Parameter	Units	Default Value	New Value
Paving	Enclosed Parking Structure	% Asphalt	%	100	0.00

8.5. Operations

8.5.1. Mobile Sources

8.5.1.1. Vehicle Data

Land Use	Model Parameter	Units	Default Value	New Value
Condo/Townhouse High Rise	Weekday Trip Rate	size/day	5.4	6.0
Condo/Townhouse High Rise	Saturday Trip Rate	size/day	4.9	6.0
Condo/Townhouse High Rise	Sunday Trip Rate	size/day	4.1	6.0
Condo/Townhouse High Rise	Res H-W Trip Length	miles	13	8.6
Condo/Townhouse High Rise	Res H-S Trip Length	miles	5.4	0.00
Condo/Townhouse High Rise	Res H-O Trip Length	miles	5.6	0.00
Condo/Townhouse High Rise	Res H-W Trip	%	30	100
Condo/Townhouse High Rise	Res H-S Trip	%	11	0.00
Condo/Townhouse High Rise	Res H-O Trip	%	59	0.00
General Office Building	Weekday Trip Rate	size/day	9.7	0.00
General Office Building	Saturday Trip Rate	size/day	2.2	0.00
General Office Building	Sunday Trip Rate	size/day	0.70	0.00
Recreational Swimming Pool	Weekday Trip Rate	size/day	29	0.00
Recreational Swimming Pool	Saturday Trip Rate	size/day	9.1	0.00
Recreational Swimming Pool	Sunday Trip Rate	size/day	14	0.00

8.5.2. Area Sources

8.5.2.1. Hearths

Land Use	Model Parameter	Units	Default Value	New Value
Condo/Townhouse High Rise	Wood Fireplaces	—	90	0
Condo/Townhouse High Rise	Gas Fireplaces	—	142	0
Condo/Townhouse High Rise	No Fireplaces	—	26	258
Condo/Townhouse High Rise	Hours/Day	—	3	0
Condo/Townhouse High Rise	Days/Year	—	82	0
Condo/Townhouse High Rise	Wood Mass	lb/year	3,078	0
Condo/Townhouse High Rise	Catalytic Wood Stoves	—	13	0
Condo/Townhouse High Rise	Non-Catalytic Wood Stoves	—	13	0
Condo/Townhouse High Rise	Days/Year	—	82	0
Condo/Townhouse High Rise	Wood Mass	lb/year	3,019	0

8.5.5. Solid Waste

Land Use	Model Parameter	Units	Default Value	New Value
Recreational Swimming Pool	Solid Waste Generation Rate	ton/1000sqft/yr	5.7	0.00

Alexan Escondido Existing LU Buildout Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Alexan Escondido Existing LU Buildout
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	26.6
Location	855 Brotherton Rd, Escondido, CA 92025, USA
County	San Diego
City	Escondido
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6211
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.28

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
General Office Building	1,292	1000sqft	14.8	1,291,995	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	54.8	21.6	177	0.35	1.14	25.9	27.1	1.10	6.58	7.68	49,749
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	45.3	22.1	114	0.34	1.04	25.9	27.0	1.03	6.58	7.61	48,199
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	49.6	22.2	142	0.34	1.09	25.5	26.6	1.06	6.47	7.53	48,530
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	9.06	4.04	25.9	0.06	0.20	4.65	4.85	0.19	1.18	1.38	8,035

2.5. 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.7	9.98	111	0.28	0.20	25.9	26.1	0.18	6.58	6.76	29,095
Area	38.5	0.47	56.2	< 0.005	0.10	—	0.10	0.08	—	0.08	232
Energy	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	16,064
Water	—	—	—	—	—	—	—	—	—	—	2,089

Waste	—	—	—	—	—	—	—	—	—	—	2,266
Refrig.	—	—	—	—	—	—	—	—	—	—	3.14
Total	54.8	21.6	177	0.35	1.14	25.9	27.1	1.10	6.58	7.68	49,749
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.4	11.0	105	0.27	0.20	25.9	26.1	0.18	6.58	6.76	27,777
Area	29.3	—	—	—	—	—	—	—	—	—	—
Energy	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	16,064
Water	—	—	—	—	—	—	—	—	—	—	2,089
Waste	—	—	—	—	—	—	—	—	—	—	2,266
Refrig.	—	—	—	—	—	—	—	—	—	—	3.14
Total	45.3	22.1	114	0.34	1.04	25.9	27.0	1.03	6.58	7.61	48,199
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	15.2	10.8	105	0.27	0.20	25.5	25.7	0.18	6.47	6.65	27,993
Area	33.8	0.23	27.7	< 0.005	0.05	—	0.05	0.04	—	0.04	114
Energy	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	16,064
Water	—	—	—	—	—	—	—	—	—	—	2,089
Waste	—	—	—	—	—	—	—	—	—	—	2,266
Refrig.	—	—	—	—	—	—	—	—	—	—	3.14
Total	49.6	22.2	142	0.34	1.09	25.5	26.6	1.06	6.47	7.53	48,530
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.77	1.97	19.1	0.05	0.04	4.65	4.69	0.03	1.18	1.21	4,635
Area	6.18	0.04	5.06	< 0.005	0.01	—	0.01	0.01	—	0.01	18.9
Energy	0.11	2.03	1.70	0.01	0.15	—	0.15	0.15	—	0.15	2,660
Water	—	—	—	—	—	—	—	—	—	—	346
Waste	—	—	—	—	—	—	—	—	—	—	375
Refrig.	—	—	—	—	—	—	—	—	—	—	0.52
Total	9.06	4.04	25.9	0.06	0.20	4.65	4.85	0.19	1.18	1.38	8,035

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	15.7	9.98	111	0.28	0.20	25.9	26.1	0.18	6.58	6.76	29,095
Total	15.7	9.98	111	0.28	0.20	25.9	26.1	0.18	6.58	6.76	29,095
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	15.4	11.0	105	0.27	0.20	25.9	26.1	0.18	6.58	6.76	27,777
Total	15.4	11.0	105	0.27	0.20	25.9	26.1	0.18	6.58	6.76	27,777
Annual	—	—	—	—	—	—	—	—	—	—	—
General Office Building	2.77	1.97	19.1	0.05	0.04	4.65	4.69	0.03	1.18	1.21	4,635
Total	2.77	1.97	19.1	0.05	0.04	4.65	4.69	0.03	1.18	1.21	4,635

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,768

Total	—	—	—	—	—	—	—	—	—	—	2,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,768
Total	—	—	—	—	—	—	—	—	—	—	2,768
Annual	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	458
Total	—	—	—	—	—	—	—	—	—	—	458

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	13,296
Total	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	13,296
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	13,296
Total	0.61	11.1	9.33	0.07	0.84	—	0.84	0.84	—	0.84	13,296
Annual	—	—	—	—	—	—	—	—	—	—	—
General Office Building	0.11	2.03	1.70	0.01	0.15	—	0.15	0.15	—	0.15	2,201
Total	0.11	2.03	1.70	0.01	0.15	—	0.15	0.15	—	0.15	2,201

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	27.6	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.64	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	9.23	0.47	56.2	< 0.005	0.10	—	0.10	0.08	—	0.08	232
Total	38.5	0.47	56.2	< 0.005	0.10	—	0.10	0.08	—	0.08	232
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	27.6	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	1.64	—	—	—	—	—	—	—	—	—	—
Total	29.3	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	5.05	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.83	0.04	5.06	< 0.005	0.01	—	0.01	0.01	—	0.01	18.9
Total	6.18	0.04	5.06	< 0.005	0.01	—	0.01	0.01	—	0.01	18.9

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,089
Total	—	—	—	—	—	—	—	—	—	—	2,089
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,089
Total	—	—	—	—	—	—	—	—	—	—	2,089
Annual	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	346
Total	—	—	—	—	—	—	—	—	—	—	346

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,266
Total	—	—	—	—	—	—	—	—	—	—	2,266
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	2,266
Total	—	—	—	—	—	—	—	—	—	—	2,266
Annual	—	—	—	—	—	—	—	—	—	—	—

General Office Building	—	—	—	—	—	—	—	—	—	—	375
Total	—	—	—	—	—	—	—	—	—	—	375

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	3.14
Total	—	—	—	—	—	—	—	—	—	—	3.14
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	3.14
Total	—	—	—	—	—	—	—	—	—	—	3.14
Annual	—	—	—	—	—	—	—	—	—	—	—
General Office Building	—	—	—	—	—	—	—	—	—	—	0.52
Total	—	—	—	—	—	—	—	—	—	—	0.52

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—

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

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	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
General Office Building	4,450	4,450	4,450	1,624,115	36,744	36,744	36,744	13,411,551

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,937,993	645,998	—

5.10.3. Landscape Equipment

Season	Unit	Value

Snow Days	day/yr	0.00
Summer Days	day/yr	180

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
General Office Building	21,440,097	45.1	0.0330	0.0040	41,373,590

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
General Office Building	229,631,114	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
General Office Building	1,202	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00

General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

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

5.16.2. Process Boilers

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

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

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	15.7	annual days of extreme heat
Extreme Precipitation	5.10	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	8.89	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	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores 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	50.5
AQ-PM	18.8
AQ-DPM	77.4
Drinking Water	57.9
Lead Risk Housing	49.3
Pesticides	60.9
Toxic Releases	10.8
Traffic	89.2
Effect Indicators	—
CleanUp Sites	61.4
Groundwater	64.3
Haz Waste Facilities/Generators	62.5
Impaired Water Bodies	23.9
Solid Waste	9.67
Sensitive Population	—
Asthma	43.4
Cardio-vascular	44.3
Low Birth Weights	51.0

Socioeconomic Factor Indicators	—
Education	54.8
Housing	35.8
Linguistic	46.5
Poverty	40.6
Unemployment	14.4

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	72.73193892
Employed	58.03926601
Median HI	70.29385346
Education	—
Bachelor's or higher	49.49313486
High school enrollment	100
Preschool enrollment	19.62017195
Transportation	—
Auto Access	53.75336841
Active commuting	18.52944951
Social	—
2-parent households	43.2567689
Voting	73.80982933
Neighborhood	—
Alcohol availability	53.38123957
Park access	10.48376748
Retail density	56.89721545

Supermarket access	74.70807135
Tree canopy	36.53278583
Housing	—
Homeownership	72.97574747
Housing habitability	66.49557295
Low-inc homeowner severe housing cost burden	70.97395098
Low-inc renter severe housing cost burden	24.74015142
Uncrowded housing	79.21211344
Health Outcomes	—
Insured adults	53.31707943
Arthritis	32.0
Asthma ER Admissions	57.2
High Blood Pressure	62.1
Cancer (excluding skin)	27.6
Asthma	58.2
Coronary Heart Disease	37.1
Chronic Obstructive Pulmonary Disease	40.0
Diagnosed Diabetes	57.0
Life Expectancy at Birth	43.9
Cognitively Disabled	70.6
Physically Disabled	77.4
Heart Attack ER Admissions	62.3
Mental Health Not Good	53.9
Chronic Kidney Disease	45.1
Obesity	58.7
Pedestrian Injuries	93.3
Physical Health Not Good	56.1
Stroke	51.7

Health Risk Behaviors	—
Binge Drinking	14.4
Current Smoker	57.8
No Leisure Time for Physical Activity	56.5
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	44.4
Elderly	43.3
English Speaking	62.2
Foreign-born	50.2
Outdoor Workers	13.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.4
Traffic Density	89.3
Traffic Access	55.7
Other Indices	—
Hardship	36.6
Other Decision Support	—
2016 Voting	73.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	52.0
Healthy Places Index Score for Project Location (b)	58.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Based on maximum FAR of 2.0 for the existing project site land use designation of professional office (PO).
Operations: Vehicle Data	General office max buildout trip generation rate calculated from LMA (LLG 2024): 300 trips per acre x 14.83 acres / 1291.995 ksf = 3.444 trips/ksf.

Appendix B

Solar Calculations

Alexan Residential Solar Panel Requirements

Factors for Climate Zone 10	
A	0.627
B	1.41
CF	19.00%

	DU	Conditioned Floor Area (SF)	kW	kWhr/year
Total	258	323,775	566.8	943,360.2

Notes:
1. Calculations based on 2022 Title 24 Builing Energy Efficieny Standards, Section 170.2, Equation 170.2-C and Table 170.2-T.
2. Factors are from 2022 Title 24 Table 170.2-T for Escondido where A is the climate zone 10 adjustment factor, B is the climate zone 10 dwelling unit factor.
3. CF is the capacity factor which accounts for climate, daylight hours, roof pitch and orientation, and transmission loss, from National Renewable Energy Laboratory PVWatts Calculator, for project site coordinates and optimal solar panel orientation of 180 degree azimuth, 28 degree tilt.
4. Residential solar power output requirement is calculated by 2022 Title 24 Equation 170.2-C:
kW = (CFA X A) / 1000 + (DU X B).
5. Annual solar energy generated is calculated by:
kWhr/year = Power Output (kW) x 24 hours/day x 365 days/year x CF.

Appendix C

HRA Modeling Input/Output

Alexan Escondido Project HRA Modeled Traffic Volumes

Truck Mix

I-15 Truck Mix[1]	
MHD Trucks	0.80%
HHD Trucks	2.83%
Surface Street Truck Mix[2]	
MHD Trucks	2.00%
HHD Trucks	1.00%

Modeled Road Segment Traffic Data

Road Segment	ID	Lanes	Speed Limit (mph)	Segment Length (m)	Segment Length (mile)	ADT	MHD Trucks	HHD Trucks	All Other	PM Peak[5]	MHD Trucks	HHD Trucks	All Other	MHD EF (lb/mile)[6]	HHD EF (lb/mile)[6]	All Other EF (lb/mile)[6]	DPM (lb/yr)	DPM (lb/hr)
I-15 W Citracado Pkwy to W 9th Ave[3]																		
Northbound HOV Lanes	I15N1	2	65	1595.8	0.992	10,500	0	0	10,500	798	0	0	798	0.0000E+00	0.0000E+00	9.4093E-07	3.5758E+00	7.4454E-04
Northbound Lanes 1-3	I15N2	3	65	1600.6	0.995	62,940	0	0	62,940	4,783	0	0	4,783	0.0000E+00	0.0000E+00	9.4093E-07	2.1499E+01	4.4764E-03
Northbound Lanes 4-5	I15N3	2	65, 55	1605.0	0.997	41,960	926	3,269	37,765	3,189	70	248	2,870	1.5430E-05	4.4247E-05	9.4093E-07	7.0791E+01	1.4740E-02
Southbound HOV Lanes	I15S1	2	65	1587.3	0.986	13,700	0	0	13,700	1,041	0	0	1,041	0.0000E+00	0.0000E+00	9.4093E-07	4.6407E+00	9.6628E-04
Southbound Lanes 1-2	I15S2	2	65	1589.9	0.988	51,250	0	0	51,250	3,895	0	0	3,895	0.0000E+00	0.0000E+00	9.4093E-07	1.7389E+01	3.6206E-03
Southbound Lanes 3-4	I15S3	2	65,55	1585.9	0.985	51,250	932	3,292	47,026	3,895	71	250	3,574	1.5430E-05	4.4247E-05	9.4093E-07	7.3479E+01	1.5300E-02
Northbound Onramp	I15NR1	1	55	271.5	0.169	4,680	94	47	4,540	356	7	4	345	1.5430E-05	4.4247E-05	9.4943E-07	4.8184E-01	1.0033E-04
Southbound Offramp	I15SR1	1	55	475.7	0.296	6,150	123	62	5,966	467	9	5	453	1.5430E-05	4.4247E-05	9.4943E-07	1.1094E+00	2.3100E-04
I-15 Centre City Pkwy to W Citracado Pkwy[3]																		
Northbound HOV Lanes	I15N4	2	65	930.0	0.578	16,900	0	0	16,900	1,284	0	0	1,284	0.0000E+00	0.0000E+00	9.4093E-07	3.3541E+00	6.9838E-04
Northbound Lanes 1-3	I15N5	3	65	926.8	0.576	59,760	0	0	59,760	4,542	0	0	4,542	0.0000E+00	0.0000E+00	9.4093E-07	1.1819E+01	2.4610E-03
Northbound Lanes 4-5	I15N6	2	65,55	926.0	0.575	39,840	935	3,300	35,605	3,028	71	251	2,706	1.5430E-05	4.4247E-05	9.4093E-07	4.0734E+01	8.4816E-03
Southbound HOV Lanes	I15S4	2	65	938.0	0.583	16,800	0	0	16,800	1,277	0	0	1,277	0.0000E+00	0.0000E+00	9.4093E-07	3.3629E+00	7.0022E-04
Southbound Lanes 1-2	I15S5	2	65	935.1	0.581	51,100	0	0	51,100	3,884	0	0	3,884	0.0000E+00	0.0000E+00	9.4093E-07	1.0197E+01	2.1232E-03
Southbound Lanes 3-4	I15S6	2	65,55	940.8	0.585	51,100	955	3,371	46,774	3,884	73	256	3,555	1.5430E-05	4.4247E-05	9.4093E-07	4.4362E+01	9.2370E-03
Northbound Offramp	I15NR2	1	55	352.6	0.219	2,040	41	20	1,979	155	3	2	150	1.5430E-05	4.4247E-05	9.4943E-07	2.7277E-01	5.6796E-05
Southbound Onramp	I15SR2	1	55	456.5	0.284	1,980	40	20	1,921	150	3	2	146	1.5430E-05	4.4247E-05	9.4943E-07	3.4276E-01	7.1369E-05
Felicita Rd[4]																		
Montview Dr to Brotherton Rd	Fel1	2	45	398.0	0.247	14,816	296	148	14,371	1,126	23	11	1,092	1.5088E-05	2.8423E-05	5.0051E-07	1.4330E+00	2.9837E-04
Brotherton Rd to Project	Fel2	2	45	106.3	0.066	13,830	277	138	13,415	1,051	21	11	1,020	1.5088E-05	2.8423E-05	5.0051E-07	3.5726E-01	7.4388E-05
Project to W Citracado Pkwy	Fel3	2	45	287.4	0.179	14,300	286	143	13,871	1,087	22	11	1,054	1.5088E-05	2.8423E-05	5.0051E-07	9.9873E-01	2.0796E-04
Miller Ave[4]																		
Brotherton Road to W Citracado Pkwy	Mil1	2	25	385.7	0.240	1,960	39	20	1,901	149	3	1	144	2.0773E-05	1.7675E-05	3.9715E-06	7.6204E-01	1.5867E-04
Brotherton Rd[4]																		
Felicita Rd to Project	Bro1	2	25	90.9	0.056	1,120	22	11	1,086	85	2	1	83	2.0773E-05	1.7675E-05	3.9715E-06	1.0263E-01	2.1369E-05
Project to Miller Ave	Bro2	2	25	298.7	0.186	1,160	23	12	1,125	88	2	1	86	2.0773E-05	1.7675E-05	3.9715E-06	3.4927E-01	7.2725E-05
Gamble Ln[4]																		
I-15 SB Ramps to Felicita Rd	Gam1	4	35	103.5	0.064	14,470	289	145	14,036	1,100	22	11	1,067	1.5686E-05	2.0862E-05	1.0069E-06	5.0918E-01	1.0602E-04
W Citracado Pkwy[4]																		
Felicita Rd to I-15 SB Ramps	WCi1	4	35	54.7	0.034	12,340	247	123	11,970	938	19	9	910	1.5686E-05	2.0862E-05	1.0069E-06	2.2949E-01	4.7784E-05
I-15 SB Ramps to I-15 NB Ramps	WCi2	4	35	218.5	0.136	10,160	203	102	9,855	772	15	8	749	1.5686E-05	2.0862E-05	1.0069E-06	7.5476E-01	1.5716E-04
I-15 NB Ramps to Miller Ave	WCi3	4	35	129.2	0.080	7,530	151	75	7,304	572	11	6	555	1.5686E-05	2.0862E-05	1.0069E-06	3.3077E-01	6.8872E-05

Notes:
1. I-15 Truck mix calculated from Caltrans Traffic census data for I-15 near W. Citracado Parkway and assuming Caltrans reported 3-axle trucks are equivalent to EMFAC medium heavy duty (MHD) trucks and Caltrans reported 4 or more axle trucks are equivalent to EMFAC heavy heavy duty (HHD) trucks (Caltrans Traffic Census Program 2021 AADT Truck, Available at: https://dot.ca.gov/programs/traffic-operations/census).
2. Surface street truck mix from assumption in Alexan Escondido Project Noise Technical Report (HELIX Environmental Planning 2023, July).
3. 2025 I-15 ADT volumes from SANDAG Transportation Forecast Information Center, ABM2+/2021 RP, Forecast Year 2025, Scenario 462. Available at: https://tfic.sandag.org/.
4. Surface street ADT volumes from project Vehicle Miles Traveled and Local Mobility Aanalysis, Near-Term (Year 2025) + Project scenario (Linscott Law & Greenspan 2024, August 6).
5. PM Peak Hour volume calculated from ADT based on 7.6% of traffic during the 5 p.m. to 6 p.m. hour for San Diego region roadways (Ogden International. 1988 Road Travel Survey; Wyle Laboratories. 1973. Development of Ground Transportation Systems Noise Contours for the San Diego Region).
6. Emission factors calculated from diesel PM10 emissions and vehile miles traveled reported by EMFAC2021 version 1.0.2. Available at: https://arb.ca.gov/emfac/.

Source: EMFAC2021 (v1.0.2) Emissions Inventory
Region Type: County
Region: San Diego
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/year for VMT, tons/year for Emissions, mph for Speed

Region	Calendar Year	Vehicle Category	Model Year	Fuel	Speed	Total VMT	PM10_RUNEX	EF (lb/mile)	Speed	Total VMT	PM10_RUNEX	EF (lb/mile)	Speed	Total VMT	PM10_RUNEX	EF (lb/mile)	Speed	Total VMT	PM10_RUNEX	EF (lb/mile)	Speed	Total VMT	PM10_RUNEX	EF (lb/mile)
San Diego	2025	HHDT	Aggregate	Diesel	25	1.2553E+07	1.2445E-01		35	1.6322E+07	1.8948E-01		45	2.1153E+07	3.2852E-01		55	3.5929E+07	8.4108E-01					
San Diego	2025	HHDT	Aggregate	Electricity	25	9.0587E+04			35	1.2485E+05			45	1.5439E+05			55	2.3192E+05						
San Diego	2025	HHDT	Aggregate	Gasoline	25	5.3817E+03			35	8.4299E+03			45	8.7458E+03			55	1.5929E+04						
San Diego	2025	HHDT	Aggregate	Natural Gas	25	1.4332E+06			35	1.7091E+06			45	1.7997E+06			55	1.8402E+06						
						1.4082E+07	**1.2445E-01**	**1.7675E-05**		**1.8165E+07**	**1.8948E-01**	**2.0862E-05**		**2.3116E+07**	**3.2852E-01**	**2.8423E-05**		**3.8017E+07**	**8.4108E-01**	**4.4247E-05**				
San Diego	2025	MHDT	Aggregate	Diesel	25	2.0285E+07	2.4708E-01		35	3.4378E+07	3.0759E-01		45	1.5656E+07	1.5019E-01		55	1.1590E+07	1.4386E-01					
San Diego	2025	MHDT	Aggregate	Electricity	25	2.1374E+05			35	3.4763E+05			45	1.9571E+05			55	2.0377E+05						
San Diego	2025	MHDT	Aggregate	Gasoline	25	2.8827E+06			35	3.7972E+06			45	3.7645E+06			55	6.6487E+06						
San Diego	2025	MHDT	Aggregate	Natural Gas	25	4.0686E+05			35	6.9740E+05			45	2.9383E+05			55	2.0473E+05						
						2.3789E+07	**2.4708E-01**	**2.0773E-05**		**3.9220E+07**	**3.0759E-01**	**1.5686E-05**		**1.9910E+07**	**1.5019E-01**	**1.5088E-05**		**1.8647E+07**	**1.4386E-01**	**1.5430E-05**				
San Diego	2025	LDA	Aggregate	Diesel	25	2.8128E+06	5.5130E-02		35	4.7239E+06	6.9625E-02		45	5.4768E+06	6.9939E-01		55	5.0397E+06	6.3900E-01		65	6.2534E+04	9.3063E-01	
San Diego	2025	LDT1	Aggregate	Diesel	25	1.4289E+04	4.9314E-03		35	2.3997E+04	6.0395E-03		45	2.7822E+04	6.1226E-01		55	2.5601E+04	5.9072E-01		65	3.1767E+02	9.2157E-01	
San Diego	2025	LDT2	Aggregate	Diesel	25	1.6147E+06	1.1736E-02		35	2.7117E+06	1.5565E-02		45	3.1439E+06	1.5415E-01		55	2.8930E+06	1.2848E-01		65	3.5897E+04	1.6294E-01	
San Diego	2025	LHDT1	Aggregate	Diesel	25	5.8430E+07	2.8463E+00		35	2.6029E+07	8.7996E-01		45	1.5423E+07	3.8965E-01		55	3.5863E+07	8.1119E-01		55	3.5863E+07	8.1119E-01	
San Diego	2025	LHDT2	Aggregate	Diesel	25	2.3988E+07	1.0151E+00		35	1.0686E+07	3.1643E-01		45	6.3317E+06	1.3971E-01		55	1.4723E+07	2.8587E-01		55	1.4723E+07	2.8587E-01	
San Diego	2025	MDV	Aggregate	Diesel	25	4.1537E+06	4.0382E-02		35	6.9760E+06	5.2231E-02		45	8.0878E+06	5.2101E-01		55	7.4423E+06	4.5555E-01		65	9.2347E+04	6.2342E-01	
San Diego	2025	MH	Aggregate	Diesel	25	5.4560E+05	5.7957E-02		35	7.1443E+05	6.3330E-02		45	7.1805E+05	6.4040E-01		55	1.4731E+06	1.5808E-01		65	2.5051E+04	3.5915E-01	
San Diego	2025	OBUS	Aggregate	Diesel	25	6.4961E+05	3.5449E-02		35	1.5094E+06	6.7788E-02		45	1.2110E+06	4.9143E-01		55	3.6913E+05	1.1153E-01		65	1.7735E+04	6.7561E-01	
San Diego	2025	SBUS	Aggregate	Diesel	25	1.2130E+06	4.3584E-02		35	1.9010E+06	4.8863E-02		45	1.8804E+06	4.4266E-01		55	9.7337E+05	2.8748E-01		65	6.4833E+04	2.1984E-01	
San Diego	2025	LDA	Aggregate	Electricity	25	1.8301E+08			35	1.7244E+08			45	1.1100E+08			55	2.5081E+07			65	9.3748E+04		
San Diego	2025	LDT1	Aggregate	Electricity	25	7.1527E+05			35	6.7396E+05			45	4.3383E+05			55	9.8025E+04			65	3.6640E+02		
San Diego	2025	LDT2	Aggregate	Electricity	25	7.5872E+06			35	7.1490E+06			45	4.6018E+06			55	1.0398E+06			65	3.8865E+04		
San Diego	2025	LHDT1	Aggregate	Electricity	25	1.4327E+06			35	5.3834E+05			45	2.5323E+05			55	5.5815E+05			55	5.5815E+05		
San Diego	2025	LHDT2	Aggregate	Electricity	25	3.5032E+05			35	1.4416E+05			45	7.7587E+04			55	1.7676E+05			55	1.7676E+05		
San Diego	2025	MDV	Aggregate	Electricity	25	8.2045E+06			35	7.7306E+06			45	4.9762E+06			55	1.1244E+06			65	4.2027E+04		
San Diego	2025	OBUS	Aggregate	Electricity	25	9.1535E+03			35	1.7328E+04			45	1.4874E+04			55	1.2977E+04			65	2.9504E+02		
San Diego	2025	SBUS	Aggregate	Electricity	25	1.3149E+04			35	2.0608E+04			45	2.0384E+04			55	1.0551E+04			65	7.0280E+02		
San Diego	2025	UBUS	Aggregate	Electricity	25	1.4465E+05			35	2.5406E+05			45	1.1627E+05			55	3.3187E+04			65	3.0537E+03		
San Diego	2025	LDA	Aggregate	Gasoline	25	8.4761E+08			35	1.4235E+09			45	1.6504E+09			55	1.5187E+09			65	1.8844E+07		
San Diego	2025	LDT1	Aggregate	Gasoline	25	7.8138E+07			35	1.3123E+08			45	1.5215E+08			55	1.4000E+08			65	1.7372E+06		
San Diego	2025	LDT2	Aggregate	Gasoline	25	4.1057E+08			35	6.8953E+08			45	7.9942E+08			55	7.3562E+08			65	9.1278E+06		
San Diego	2025	LHDT1	Aggregate	Gasoline	25	8.1939E+07			35	2.7076E+07			45	9.8391E+06			55	1.9982E+07			55	1.9982E+07		
San Diego	2025	LHDT2	Aggregate	Gasoline	25	1.1338E+07			35	3.7467E+06			45	1.3615E+06			55	2.7651E+06			55	2.7651E+06		
San Diego	2025	MCY	Aggregate	Gasoline	25	7.7333E+06			35	1.2988E+07			45	1.5058E+07			55	1.3856E+07			65	1.7193E+05		
San Diego	2025	MDV	Aggregate	Gasoline	25	2.3973E+08			35	4.0261E+08			45	4.6678E+08			55	4.2952E+08			65	5.3297E+06		
San Diego	2025	MH	Aggregate	Gasoline	25	1.2938E+06			35	1.7042E+06			45	1.6896E+06			55	2.9840E+06			65	5.6496E+04		
San Diego	2025	OBUS	Aggregate	Gasoline	25	9.3016E+05			35	1.7608E+06			45	1.5115E+06			55	1.3187E+06			65	2.9981E+04		
San Diego	2025	SBUS	Aggregate	Gasoline	25	4.2476E+05			35	6.6571E+05			45	6.5849E+05			55	3.4085E+05			65	2.2703E+04		
San Diego	2025	UBUS	Aggregate	Gasoline	25	7.2667E+05			35	2.5923E+05			45	9.3891E+04			55	1.2057E+05			65	4.1687E+04		
San Diego	2025	OBUS	Aggregate	Natural Gas	25	1.2953E+05			35	3.2488E+05			45	2.4481E+05			55	1.7893E+04			65	6.2592E-01		
San Diego	2025	SBUS	Aggregate	Natural Gas	25	1.3116E+04			35	2.0555E+04			45	2.0332E+04			55	1.0525E+04			65	7.0102E+02		
San Diego	2025	UBUS	Aggregate	Natural Gas	25	4.1389E+06			35	7.2697E+06			45	3.3271E+06			55	9.4963E+05			65	8.7379E+04		
San Diego	2025	LDA	Aggregate	Plug-in Hybrid	25	7.2943E+07			35	5.8141E+07			45	4.2206E+07			55	2.8630E+07			65	3.2843E+04		
San Diego	2025	LDT1	Aggregate	Plug-in Hybrid	25	4.5693E+05			35	3.4888E+05			45	2.4062E+05			55	1.5504E+05			65	1.7494E+02		
San Diego	2025	LDT2	Aggregate	Plug-in Hybrid	25	1.0459E+07			35	8.1297E+06			45	5.7307E+06			55	3.7768E+06			65	4.2933E+03		
San Diego	2025	MDV	Aggregate	Plug-in Hybrid	25	6.5899E+06			35	5.1539E+06			45	3.6598E+06			55	2.4298E+06			65	2.7686E+04		
						2.0701E+09	**4.1106E+00**	**3.9715E-06**		**3.0187E+09**	**1.5198E+00**	**1.0069E-06**		**3.3182E+09**	**8.3039E-01**	**5.0051E-07**		**2.9981E+09**	**1.4232E+00**	**9.4943E-07**		**3.6701E+05**	**1.7267E+00**	**9.4093E-07**

*HARP - HRACalc v22118 11/13/2024 6:31:48 AM - Cancer Risk

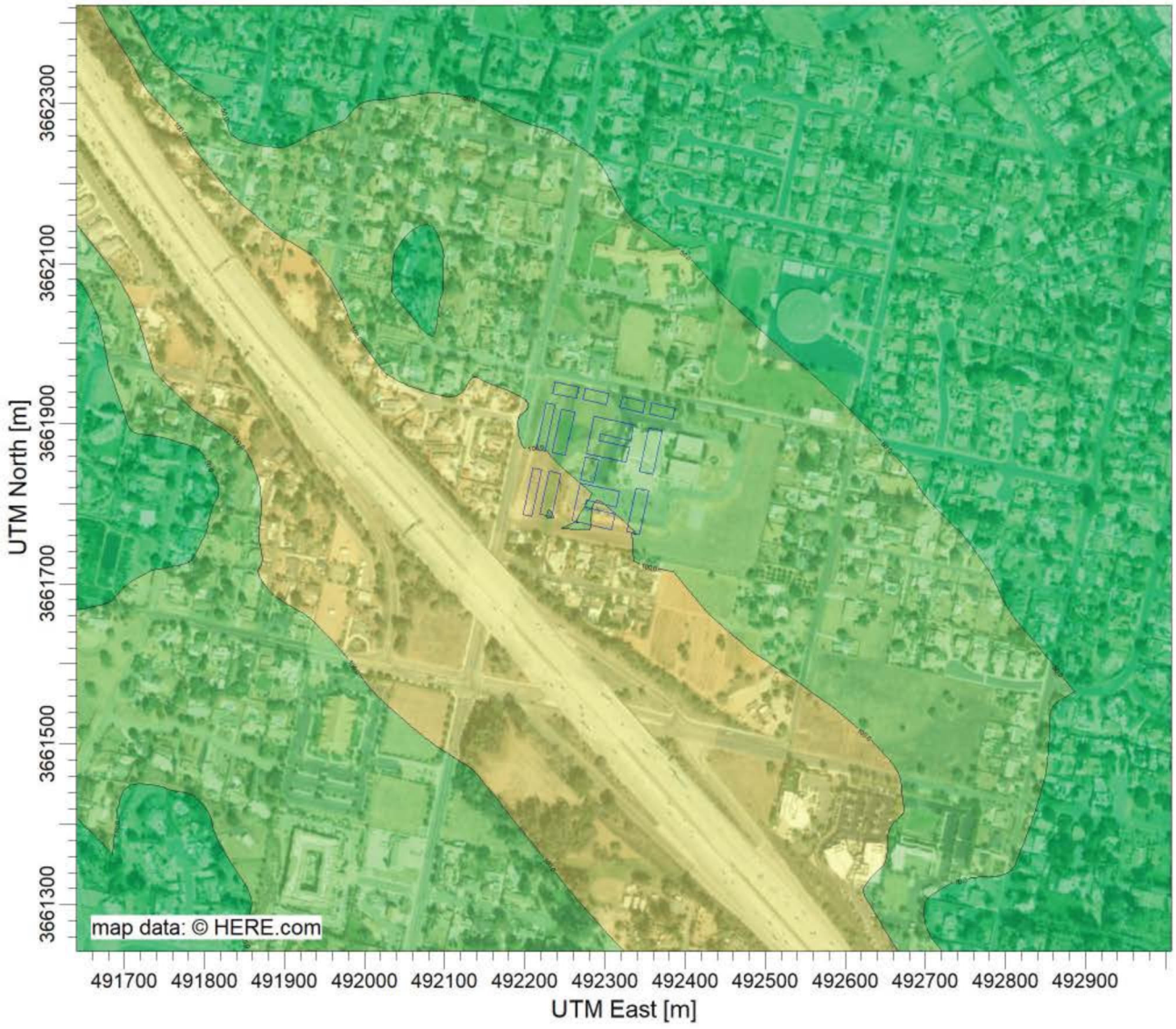
REC	X (m)	Y (m)	Flag Height (m)	RISK_SUM	SCENARIO
B1S1	492202.38	3661785.01	1.52	1.35E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B1S2	492203.35	3661784.87	4.57	1.30E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B1S3	492204.31	3661784.67	7.62	1.01E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B1W1	492197.7	3661789.18	1.52	1.37E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B1W2	492197.93	3661790.14	4.57	1.31E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B1W3	492198.16	3661791.15	7.62	1.01E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B2W1	492214.66	3661870.14	1.52	1.04E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B2W2	492214.86	3661871.12	4.57	9.86E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B2W3	492215.11	3661872.08	7.62	7.49E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B3W1	492235.74	3661943.88	1.52	9.40E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B3W2	492236.07	3661945.37	4.57	8.69E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B3W3	492236.34	3661946.73	7.62	6.18E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B10S1	492224.8	3661784.94	1.52	1.23E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B10S2	492226.03	3661784.77	4.57	1.19E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B10S3	492227.65	3661784.48	7.62	9.49E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B9S1	492261.24	3661777.79	1.52	1.14E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B9S2	492262.37	3661777.51	4.57	1.08E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B9S3	492263.53	3661777.25	7.62	8.06E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B9S4	492264.93	3661776.89	10.67	4.74E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B8S1	492333.06	3661763.14	1.52	1.02E-04	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B8S2	492334.81	3661762.83	4.57	8.08E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70
B8S3	492336.22	3661762.56	7.62	4.87E-05	30YrCancerDerived_InhSoilDermMMilk_FAH16to70

*HARP - HRACalc v22118 11/13/2024 6:31:25 AM - Chronic Risk

REC	X (m)	Y (m)	Flag Height (m)	MAXHI	SCENARIO
B1S1	492202.38	3661785.01	1.52	3.13E-02	NonCancerChronicDerived_InhSoilDermMMilk
B1S2	492203.35	3661784.87	4.57	3.01E-02	NonCancerChronicDerived_InhSoilDermMMilk
B1S3	492204.31	3661784.67	7.62	2.34E-02	NonCancerChronicDerived_InhSoilDermMMilk
B1W1	492197.7	3661789.18	1.52	3.16E-02	NonCancerChronicDerived_InhSoilDermMMilk
B1W2	492197.93	3661790.14	4.57	3.03E-02	NonCancerChronicDerived_InhSoilDermMMilk
B1W3	492198.16	3661791.15	7.62	2.33E-02	NonCancerChronicDerived_InhSoilDermMMilk
B2W1	492214.66	3661870.14	1.52	2.40E-02	NonCancerChronicDerived_InhSoilDermMMilk
B2W2	492214.86	3661871.12	4.57	2.28E-02	NonCancerChronicDerived_InhSoilDermMMilk
B2W3	492215.11	3661872.08	7.62	1.73E-02	NonCancerChronicDerived_InhSoilDermMMilk
B3W1	492235.74	3661943.88	1.52	2.17E-02	NonCancerChronicDerived_InhSoilDermMMilk
B3W2	492236.07	3661945.37	4.57	2.01E-02	NonCancerChronicDerived_InhSoilDermMMilk
B3W3	492236.34	3661946.73	7.62	1.43E-02	NonCancerChronicDerived_InhSoilDermMMilk
B10S1	492224.8	3661784.94	1.52	2.84E-02	NonCancerChronicDerived_InhSoilDermMMilk
B10S2	492226.03	3661784.77	4.57	2.74E-02	NonCancerChronicDerived_InhSoilDermMMilk
B10S3	492227.65	3661784.48	7.62	2.19E-02	NonCancerChronicDerived_InhSoilDermMMilk
B9S1	492261.24	3661777.79	1.52	2.64E-02	NonCancerChronicDerived_InhSoilDermMMilk
B9S2	492262.37	3661777.51	4.57	2.50E-02	NonCancerChronicDerived_InhSoilDermMMilk
B9S3	492263.53	3661777.25	7.62	1.86E-02	NonCancerChronicDerived_InhSoilDermMMilk
B9S4	492264.93	3661776.89	10.67	1.10E-02	NonCancerChronicDerived_InhSoilDermMMilk
B8S1	492333.06	3661763.14	1.52	2.35E-02	NonCancerChronicDerived_InhSoilDermMMilk
B8S2	492334.81	3661762.83	4.57	1.87E-02	NonCancerChronicDerived_InhSoilDermMMilk
B8S3	492336.22	3661762.56	7.62	1.13E-02	NonCancerChronicDerived_InhSoilDermMMilk

PROJECT TITLE:

Alexan Escondido Project
Resindetial Cancer Risk From High Volume Roadways



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

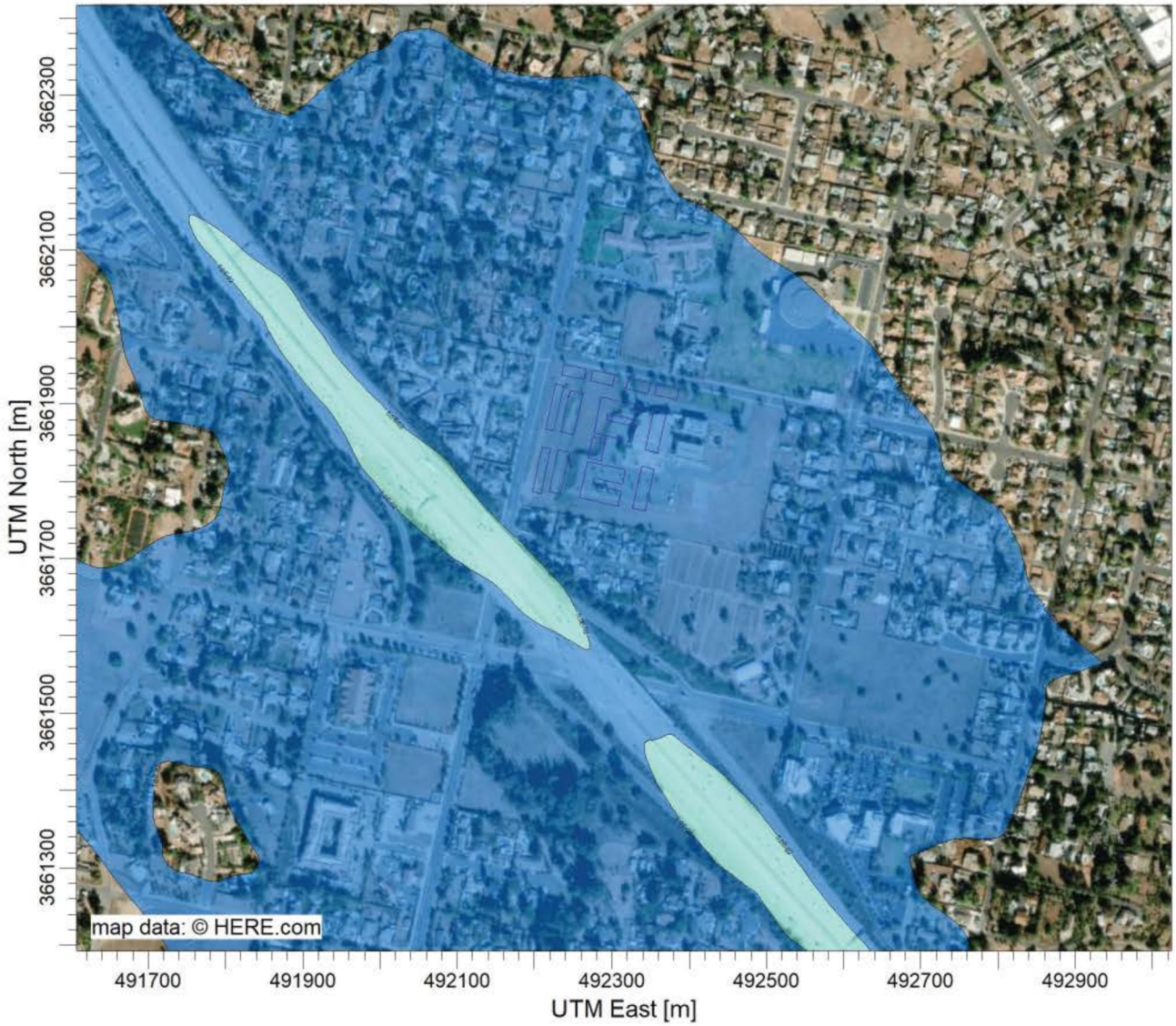
Max: 368.2 [ug/m^3] at (492485.00, 3661365.00)

10.0 50.0 100.0

COMMENTS: Risk in chances per million.	SOURCES: **26**	COMPANY NAME:	
	RECEPTORS: **922**	MODELER:	
	OUTPUT TYPE: **Concentration**	SCALE: 1:8,589 0 0.3 km	
	MAX: **368.2 ug/m^3**	DATE: **11/13/2024**	PROJECT NO.:

PROJECT TITLE:

Alexan Escondido Project
Resindetial Non-Cancer Chronic Effect From High Volume Roadways



PLOT FILE OF PERIOD VALUES FOR SOURCE GROUP: ALL ug/m^3

Max: 6.2E-02 [ug/m^3] at (492035.00, 3661815.00)

1.0E-02 5.0E-02

COMMENTS: Hazard Index.	SOURCES: **26**	COMPANY NAME: **HELIX Environmenal Planning**	
	RECEPTORS: **922**		
	OUTPUT TYPE: **Concentration**	SCALE: 1:8,907 0 0.3 km	
	MAX: **6.2E-02 ug/m^3**	DATE: **7/27/2023**	PROJECT NO.:

Control Pathway

Dispersion Options

Titles

C:\Users\martinr\Desktop\Alexan HRA\Alexan Dispersion\Alexan Dispers

Dispersion Options

☑ Regulatory Default ☐ Non-Default Options

Dispersion Coefficient

Rural

Output Type

☑ Concentration
☐ Total Deposition (Dry & Wet)
☐ Dry Deposition
☐ Wet Deposition

Plume Depletion

☐ Dry Removal
☐ Wet Removal

Output Warnings

☐ No Output Warnings
☐ Non-fatal Warnings for Non-sequential Met Data

Pollutant / Averaging Time / Terrain Options

Pollutant Type

OTHER - DPM

Averaging Time Options

Hours: ☑ 1 ☐ 2 ☐ 3 ☐ 4 ☐ 6 ☐ 8 ☐ 12 ☐ 24

☐ Month ☑ Period ☐ Annual

Exponential Decay

Option not available

Terrain Height Options

☐ Flat ☑ Elevated

SO: Meters
RE: Meters
TG: Meters

Flagpole Receptors

☑ Yes ☐ No

Default Height = 1.52 m

Control Pathway

Optional Files

Re-Start File	Init File	Multi-Year Analyses	Event Input File	Error Listing File

Detailed Error Listing File

Filename: Alexan Dispersion.err

Source Pathway - Source Inputs

Source Pathway - Source Inputs

Line Volume Sources

Source Type: LINE VOLUME

Source: 15NR2 (I-15 S Northbound Offramp)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.00	1.00000		492400.52	3661503.60	195.07	3.50
			492504.23	3661368.50	202.24	3.50
			492580.42	3661266.55	202.56	3.50
			492613.64	3661222.75	200.96	3.50

Source Type: LINE VOLUME

Source: BRO1 (Botherton Rd Felicita Rd to Project)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.67	1.00000		492222.92	3661965.50	197.50	3.50
			492311.51	3661944.95	198.60	3.50

Source Type: LINE VOLUME

Source: BRO2 (Brotherton Rd Project to Miller Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
16.67	1.00000		492312.93	3661944.51	198.66	3.50
			492605.37	3661883.67	197.92	3.50

Source Type: LINE VOLUME

Source: FEL1 (Felicita Rd Montview Dr to Brotherton Rd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492301.30	3662355.31	203.50	0.00
			492213.18	3661967.94	197.62	0.00

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: FEL2 (Felicita Rd Brotherton Rd to Project)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492212.48	3661965.57	197.61	3.37
			492189.29	3661861.81	196.31	3.37

Source Type: LINE VOLUME
Source: FEL3 (Felicita Rd Project to W Citracado Pkwy)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492189.59	3661863.46	196.32	3.50
			492132.95	3661581.72	192.93	3.50

Source Type: LINE VOLUME
Source: GAM1 (Gamble Ln I-15 SB Ramps to Felicita Rd)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		492029.89	3661595.98	193.69	3.50
			492131.60	3661576.68	192.94	3.50

Source Type: LINE VOLUME
Source: I15N1 (I-15N Northbound HOV Lanes)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		491376.38	3662839.43	222.59	1.55
			491504.57	3662579.42	218.84	1.55
			491586.16	3662430.83	215.13	1.55
			491663.28	3662307.86	210.99	1.55
			491709.00	3662238.63	208.18	1.55
			491804.69	3662103.13	203.64	1.55
			491925.94	3661952.85	200.25	1.55
			492042.83	3661819.36	199.76	1.55
			492291.71	3661543.07	196.38	1.55

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15N2 (I-15N Northbound Lanes 1-3)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
17.89	1.00000		491386.93	3662838.80	222.59	1.55
			491533.01	3662547.43	217.90	1.55
			491625.82	3662378.32	213.53	1.55
			491758.21	3662185.06	206.20	1.55
			491827.78	3662092.42	202.83	1.55
			491946.83	3661946.68	200.03	1.55
			492067.60	3661807.53	199.69	1.55
			492309.41	3661541.96	195.31	1.55

Source Type: LINE VOLUME
Source: I15N3 (I-15N Northbound Lanes 4-5)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
14.84	1.00000		491397.64	3662839.09	222.57	3.50
			491611.03	3662426.93	214.39	3.50
			491665.44	3662338.77	211.70	3.50
			491830.22	3662102.49	203.68	3.50
			491885.01	3662035.32	201.97	3.50
			491979.29	3661921.73	199.66	3.50
			492036.14	3661857.76	199.13	3.50
			492188.39	3661687.34	200.15	3.50
			492218.22	3661654.98	200.48	3.50
			492323.55	3661538.89	195.09	3.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15N4 (I-15S Northbound HOV Lanes)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492297.69	3661537.02	195.92	1.55
			492639.49	3661161.10	200.49	1.55
			492816.82	3660965.14	196.59	1.55
			492886.69	3660878.09	193.88	1.55
			492914.71	3660841.54	192.73	1.55

Source Type: LINE VOLUME
Source: I15N5 (I-15S Northbound Lanes 1-31)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
17.89	1.00000		492315.13	3661535.07	194.48	1.55
			492555.89	3661271.03	201.43	1.55
			492629.09	3661191.20	200.71	1.55
			492860.42	3660932.35	196.19	1.55
			492929.65	3660841.78	192.96	1.55

Source Type: LINE VOLUME
Source: I15N6 (I-15S Northbound Lanes 4-5)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
14.84	1.00000		492328.35	3661535.03	195.11	3.50
			492413.53	3661442.19	201.54	3.50
			492655.47	3661175.34	200.70	3.50
			492841.27	3660968.64	197.97	3.50
			492942.00	3660841.99	192.97	3.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15NR1 (I-15N Northbound Onramp)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.05	1.00000		492391.87	3661533.13	194.71	3.37
			492381.84	3661550.25	194.75	3.37
			492263.67	3661630.84	199.99	3.37
			492184.24	3661704.94	195.97	3.37

Source Type: LINE VOLUME
Source: I15S1 (I-15N Southbound HOV Lanes)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		491360.96	3662838.95	222.40	1.55
			491471.56	3662611.97	220.13	1.55
			491585.35	3662403.03	214.70	1.55
			491658.00	3662288.33	210.81	1.55
			491837.60	3662037.70	201.94	1.55
			491934.55	3661920.88	200.37	1.55
			492178.37	3661649.43	200.92	1.55
			492267.51	3661546.62	194.65	1.55

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15S2 (I15N Southbound Lanes 1-2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		491348.91	3662838.08	225.16	1.55
			491426.08	3662680.29	220.60	1.55
			491508.20	3662520.26	218.20	1.55
			491550.39	3662445.61	215.89	1.55
			491576.76	3662399.66	214.70	1.55
			491627.14	3662317.77	211.81	1.55
			491676.16	3662242.81	209.29	1.55
			491729.80	3662166.82	205.93	1.55
			491826.51	3662037.77	201.94	1.55
			491860.74	3661996.17	201.39	1.55
			491967.25	3661869.35	200.03	1.55
			492009.26	3661826.45	199.68	1.55
			492046.11	3661789.88	199.64	1.55
			492256.00	3661553.39	194.21	1.55
			492261.55	3661547.66	194.44	1.55

Source Type: LINE VOLUME
Source: I15S3 (I-15N Southbound Lanes 3-4)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
14.84	1.00000		491338.98	3662838.05	224.97	3.50
			491479.12	3662557.99	219.20	3.50
			491630.77	3662293.00	211.54	3.50
			491692.02	3662201.83	208.16	3.50
			491774.81	3662090.09	204.47	3.50
			491880.84	3661969.13	201.03	3.50
			491983.68	3661844.99	199.83	3.50
			492045.90	3661779.13	199.73	3.50
			492249.00	3661550.39	194.13	3.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15S4 (I15S Southbound HOV Lanes)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492272.76	3661542.89	195.07	1.55
			492405.96	3661398.92	202.15	1.55
			492627.59	3661152.90	200.81	1.55
			492822.35	3660935.64	196.07	1.55
			492896.34	3660842.54	193.44	1.55

Source Type: LINE VOLUME
Source: I15S5 (I-15S Southbound Lanes 1-2)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.92	1.00000		492264.56	3661545.08	194.71	1.55
			492392.26	3661399.88	202.21	1.55
			492606.35	3661157.56	200.68	1.55
			492700.09	3661055.47	198.96	1.55
			492782.18	3660961.92	197.15	1.55
			492868.77	3660857.18	194.59	1.55
			492880.56	3660841.78	193.30	1.55

Source Type: LINE VOLUME
Source: I15S6 (I-15S Southbound Lanes 3-4)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
14.84	1.00000		492253.24	3661546.03	194.60	3.50
			492336.27	3661455.54	201.89	3.50
			492623.14	3661133.85	200.24	3.50
			492679.64	3661070.92	199.28	3.50
			492874.35	3660839.54	197.92	3.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME
Source: I15SR1 (I-15N Southbound Offramp)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.05	1.00000		492030.48	3661609.69	193.81	3.50
			492038.82	3661661.04	194.48	3.50
			492032.44	3661725.40	196.26	3.50
			491960.31	3661843.99	200.29	3.50
			491826.75	3662019.06	202.35	3.50

Source Type: LINE VOLUME
Source: I15SR2 (I-15S Northbound Onramp)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
9.05	1.00000		492190.32	3661549.43	193.01	3.50
			492387.36	3661366.71	201.55	3.50
			492495.34	3661267.01	202.34	3.50
			492523.55	3661237.49	201.55	3.50

Source Type: LINE VOLUME
Source: MIL1 (Miller Ave Brotherton Road to W Citracado Pkwy)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
13.01	1.00000		492613.04	3661881.78	197.89	3.50
			492531.92	3661504.69	197.62	3.50

Source Type: LINE VOLUME
Source: WCI1 (W Citircado Pkwy Felicita Rd to I-15 SB Ramps)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		492135.81	3661575.62	192.97	3.50
			492189.27	3661564.21	193.38	3.50

Source Pathway - Source Inputs

Source Type: LINE VOLUME

Source: WCI2 (W Citricado Pkwy I-15 SB Ramps to I-15 NB Ramps)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		492183.36	3661565.99	193.37	3.50
			492394.54	3661518.08	195.09	3.50

Source Type: LINE VOLUME

Source: WCI3 (W Citricado Pkwy I-15 NB Ramps to Miller Ave)

Length of Side [m]	Emission Rate [g/ s]	Building Height [m]	X Coordinate for Points [m]	Y Coordinate for points [m]	Base Elevation [m]	Release Height [m]
24.29	1.00000		492397.12	3661518.08	195.12	3.50
			492523.16	3661489.70	197.12	3.50

Source Pathway - Source Inputs

Volume Sources Generated from Line Sources

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N3	L0000320	491401.05	3662832.50	222.30	3.50	0.00926	14.84		6.90	3.25
	L0000321	491407.88	3662819.32	222.11	3.50	0.00926	14.84		6.90	3.25
	L0000322	491414.70	3662806.15	222.38	3.50	0.00926	14.84		6.90	3.25
	L0000323	491421.52	3662792.97	221.95	3.50	0.00926	14.84		6.90	3.25
	L0000324	491428.34	3662779.79	221.75	3.50	0.00926	14.84		6.90	3.25
	L0000325	491435.17	3662766.61	221.73	3.50	0.00926	14.84		6.90	3.25
	L0000326	491441.99	3662753.43	221.91	3.50	0.00926	14.84		6.90	3.25
	L0000327	491448.81	3662740.26	221.58	3.50	0.00926	14.84		6.90	3.25
	L0000328	491455.63	3662727.08	220.92	3.50	0.00926	14.84		6.90	3.25
	L0000329	491462.46	3662713.90	221.19	3.50	0.00926	14.84		6.90	3.25
	L0000330	491469.28	3662700.72	221.04	3.50	0.00926	14.84		6.90	3.25
	L0000331	491476.10	3662687.55	220.78	3.50	0.00926	14.84		6.90	3.25
	L0000332	491482.93	3662674.37	220.30	3.50	0.00926	14.84		6.90	3.25
	L0000333	491489.75	3662661.19	220.51	3.50	0.00926	14.84		6.90	3.25
	L0000334	491496.57	3662648.01	220.43	3.50	0.00926	14.84		6.90	3.25
	L0000335	491503.39	3662634.83	219.62	3.50	0.00926	14.84		6.90	3.25
	L0000336	491510.22	3662621.66	219.31	3.50	0.00926	14.84		6.90	3.25
	L0000337	491517.04	3662608.48	219.61	3.50	0.00926	14.84		6.90	3.25
	L0000338	491523.86	3662595.30	219.53	3.50	0.00926	14.84		6.90	3.25
	L0000339	491530.68	3662582.12	218.71	3.50	0.00926	14.84		6.90	3.25
	L0000340	491537.51	3662568.95	218.00	3.50	0.00926	14.84		6.90	3.25
	L0000341	491544.33	3662555.77	218.45	3.50	0.00926	14.84		6.90	3.25
	L0000342	491551.15	3662542.59	218.52	3.50	0.00926	14.84		6.90	3.25
	L0000343	491557.98	3662529.41	217.96	3.50	0.00926	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N3	L0000344	491564.80	3662516.24	216.93	3.50	0.00926	14.84		6.90	3.25
	L0000345	491571.62	3662503.06	216.69	3.50	0.00926	14.84		6.90	3.25
	L0000346	491578.44	3662489.88	216.27	3.50	0.00926	14.84		6.90	3.25
	L0000347	491585.27	3662476.70	215.81	3.50	0.00926	14.84		6.90	3.25
	L0000348	491592.09	3662463.52	215.63	3.50	0.00926	14.84		6.90	3.25
	L0000349	491598.91	3662450.35	215.50	3.50	0.00926	14.84		6.90	3.25
	L0000350	491605.73	3662437.17	215.10	3.50	0.00926	14.84		6.90	3.25
	L0000351	491612.77	3662424.11	214.44	3.50	0.00926	14.84		6.90	3.25
	L0000352	491620.57	3662411.49	214.19	3.50	0.00926	14.84		6.90	3.25
	L0000353	491628.36	3662398.86	213.75	3.50	0.00926	14.84		6.90	3.25
	L0000354	491636.15	3662386.23	213.15	3.50	0.00926	14.84		6.90	3.25
	L0000355	491643.95	3662373.60	213.02	3.50	0.00926	14.84		6.90	3.25
	L0000356	491651.74	3662360.97	212.92	3.50	0.00926	14.84		6.90	3.25
	L0000357	491659.53	3662348.35	212.47	3.50	0.00926	14.84		6.90	3.25
	L0000358	491667.50	3662335.83	211.75	3.50	0.00926	14.84		6.90	3.25
	L0000359	491675.98	3662323.66	211.53	3.50	0.00926	14.84		6.90	3.25
	L0000360	491684.47	3662311.49	211.04	3.50	0.00926	14.84		6.90	3.25
	L0000361	491692.96	3662299.31	210.05	3.50	0.00926	14.84		6.90	3.25
	L0000362	491701.45	3662287.14	210.13	3.50	0.00926	14.84		6.90	3.25
	L0000363	491709.94	3662274.97	209.42	3.50	0.00926	14.84		6.90	3.25
	L0000364	491718.42	3662262.80	208.51	3.50	0.00926	14.84		6.90	3.25
	L0000365	491726.91	3662250.63	208.63	3.50	0.00926	14.84		6.90	3.25
	L0000366	491735.40	3662238.45	207.73	3.50	0.00926	14.84		6.90	3.25
	L0000367	491743.89	3662226.28	207.18	3.50	0.00926	14.84		6.90	3.25
	L0000368	491752.38	3662214.11	207.53	3.50	0.00926	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N3	L0000369	491760.87	3662201.94	207.53	3.50	0.00926	14.84		6.90	3.25
	L0000370	491769.35	3662189.77	206.78	3.50	0.00926	14.84		6.90	3.25
	L0000371	491777.84	3662177.60	205.99	3.50	0.00926	14.84		6.90	3.25
	L0000372	491786.33	3662165.42	205.72	3.50	0.00926	14.84		6.90	3.25
	L0000373	491794.82	3662153.25	204.91	3.50	0.00926	14.84		6.90	3.25
	L0000374	491803.31	3662141.08	204.66	3.50	0.00926	14.84		6.90	3.25
	L0000375	491811.79	3662128.91	204.43	3.50	0.00926	14.84		6.90	3.25
	L0000376	491820.28	3662116.74	203.38	3.50	0.00926	14.84		6.90	3.25
	L0000377	491828.77	3662104.56	203.39	3.50	0.00926	14.84		6.90	3.25
	L0000378	491838.00	3662092.95	203.09	3.50	0.00926	14.84		6.90	3.25
	L0000379	491847.38	3662081.45	202.23	3.50	0.00926	14.84		6.90	3.25
	L0000380	491856.76	3662069.96	202.35	3.50	0.00926	14.84		6.90	3.25
	L0000381	491866.14	3662058.46	201.91	3.50	0.00926	14.84		6.90	3.25
	L0000382	491875.52	3662046.96	201.49	3.50	0.00926	14.84		6.90	3.25
	L0000383	491884.90	3662035.46	201.62	3.50	0.00926	14.84		6.90	3.25
	L0000384	491894.38	3662024.04	201.00	3.50	0.00926	14.84		6.90	3.25
	L0000385	491903.85	3662012.62	200.94	3.50	0.00926	14.84		6.90	3.25
	L0000386	491913.33	3662001.20	200.89	3.50	0.00926	14.84		6.90	3.25
	L0000387	491922.81	3661989.78	200.23	3.50	0.00926	14.84		6.90	3.25
	L0000388	491932.28	3661978.37	200.68	3.50	0.00926	14.84		6.90	3.25
	L0000389	491941.76	3661966.95	200.46	3.50	0.00926	14.84		6.90	3.25
	L0000390	491951.24	3661955.53	199.79	3.50	0.00926	14.84		6.90	3.25
	L0000391	491960.71	3661944.11	200.43	3.50	0.00926	14.84		6.90	3.25
	L0000392	491970.19	3661932.69	199.89	3.50	0.00926	14.84		6.90	3.25
	L0000393	491979.68	3661921.28	199.75	3.50	0.00926	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N3	L0000394	491989.54	3661910.19	200.13	3.50	0.00926	14.84		6.90	3.25
	L0000395	491999.40	3661899.10	199.37	3.50	0.00926	14.84		6.90	3.25
	L0000396	492009.26	3661888.01	199.64	3.50	0.00926	14.84		6.90	3.25
	L0000397	492019.11	3661876.91	199.68	3.50	0.00926	14.84		6.90	3.25
	L0000398	492028.97	3661865.82	199.30	3.50	0.00926	14.84		6.90	3.25
	L0000399	492038.84	3661854.74	199.12	3.50	0.00926	14.84		6.90	3.25
	L0000400	492048.72	3661843.67	199.19	3.50	0.00926	14.84		6.90	3.25
	L0000401	492058.61	3661832.61	199.37	3.50	0.00926	14.84		6.90	3.25
	L0000402	492068.49	3661821.54	199.44	3.50	0.00926	14.84		6.90	3.25
	L0000403	492078.38	3661810.47	199.47	3.50	0.00926	14.84		6.90	3.25
	L0000404	492088.27	3661799.41	199.74	3.50	0.00926	14.84		6.90	3.25
	L0000405	492098.15	3661788.34	199.88	3.50	0.00926	14.84		6.90	3.25
	L0000406	492108.04	3661777.27	199.83	3.50	0.00926	14.84		6.90	3.25
	L0000407	492117.93	3661766.21	200.39	3.50	0.00926	14.84		6.90	3.25
	L0000408	492127.81	3661755.14	200.39	3.50	0.00926	14.84		6.90	3.25
	L0000409	492137.70	3661744.08	198.91	3.50	0.00926	14.84		6.90	3.25
	L0000410	492147.59	3661733.01	196.81	3.50	0.00926	14.84		6.90	3.25
	L0000411	492157.47	3661721.94	194.46	3.50	0.00926	14.84		6.90	3.25
	L0000412	492167.36	3661710.88	194.71	3.50	0.00926	14.84		6.90	3.25
	L0000413	492177.25	3661699.81	196.69	3.50	0.00926	14.84		6.90	3.25
	L0000414	492187.13	3661688.75	199.45	3.50	0.00926	14.84		6.90	3.25
	L0000415	492197.17	3661677.81	200.31	3.50	0.00926	14.84		6.90	3.25
	L0000416	492207.23	3661666.90	200.38	3.50	0.00926	14.84		6.90	3.25
	L0000417	492217.28	3661655.99	200.23	3.50	0.00926	14.84		6.90	3.25
	L0000418	492227.26	3661645.01	200.40	3.50	0.00926	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N3	L0000419	492237.23	3661634.02	200.49	3.50	0.00926	14.84		6.90	3.25
	L0000420	492247.21	3661623.03	200.60	3.50	0.00926	14.84		6.90	3.25
	L0000421	492257.18	3661612.04	200.70	3.50	0.00926	14.84		6.90	3.25
	L0000422	492267.15	3661601.05	200.73	3.50	0.00926	14.84		6.90	3.25
	L0000423	492277.12	3661590.06	200.85	3.50	0.00926	14.84		6.90	3.25
	L0000424	492287.09	3661579.07	199.61	3.50	0.00926	14.84		6.90	3.25
	L0000425	492297.06	3661568.08	198.05	3.50	0.00926	14.84		6.90	3.25
	L0000426	492307.04	3661557.09	196.80	3.50	0.00926	14.84		6.90	3.25
	L0000427	492317.01	3661546.10	195.69	3.50	0.00926	14.84		6.90	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S1	L0000543	491364.01	3662832.69	222.42	1.55	0.00877	13.92		6.48	1.45
	L0000544	491370.11	3662820.17	222.38	1.55	0.00877	13.92		6.48	1.45
	L0000545	491376.21	3662807.66	222.24	1.55	0.00877	13.92		6.48	1.45
	L0000546	491382.31	3662795.14	222.10	1.55	0.00877	13.92		6.48	1.45
	L0000547	491388.41	3662782.62	221.92	1.55	0.00877	13.92		6.48	1.45
	L0000548	491394.51	3662770.10	221.84	1.55	0.00877	13.92		6.48	1.45
	L0000549	491400.61	3662757.59	221.82	1.55	0.00877	13.92		6.48	1.45
	L0000550	491406.71	3662745.07	221.63	1.55	0.00877	13.92		6.48	1.45
	L0000551	491412.80	3662732.55	221.36	1.55	0.00877	13.92		6.48	1.45
	L0000552	491418.90	3662720.03	221.16	1.55	0.00877	13.92		6.48	1.45
	L0000553	491425.00	3662707.51	221.00	1.55	0.00877	13.92		6.48	1.45
	L0000554	491431.10	3662695.00	220.92	1.55	0.00877	13.92		6.48	1.45
	L0000555	491437.20	3662682.48	220.68	1.55	0.00877	13.92		6.48	1.45
	L0000556	491443.30	3662669.96	220.54	1.55	0.00877	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S1	L0000557	491449.40	3662657.44	220.39	1.55	0.00877	13.92		6.48	1.45
	L0000558	491455.50	3662644.93	220.20	1.55	0.00877	13.92		6.48	1.45
	L0000559	491461.60	3662632.41	220.00	1.55	0.00877	13.92		6.48	1.45
	L0000560	491467.70	3662619.89	219.85	1.55	0.00877	13.92		6.48	1.45
	L0000561	491474.01	3662607.48	219.74	1.55	0.00877	13.92		6.48	1.45
	L0000562	491480.67	3662595.25	219.59	1.55	0.00877	13.92		6.48	1.45
	L0000563	491487.33	3662583.02	219.21	1.55	0.00877	13.92		6.48	1.45
	L0000564	491493.99	3662570.79	218.95	1.55	0.00877	13.92		6.48	1.45
	L0000565	491500.65	3662558.56	218.70	1.55	0.00877	13.92		6.48	1.45
	L0000566	491507.31	3662546.33	218.37	1.55	0.00877	13.92		6.48	1.45
	L0000567	491513.96	3662534.10	218.11	1.55	0.00877	13.92		6.48	1.45
	L0000568	491520.62	3662521.88	217.90	1.55	0.00877	13.92		6.48	1.45
	L0000569	491527.28	3662509.65	217.64	1.55	0.00877	13.92		6.48	1.45
	L0000570	491533.94	3662497.42	217.31	1.55	0.00877	13.92		6.48	1.45
	L0000571	491540.60	3662485.19	216.96	1.55	0.00877	13.92		6.48	1.45
	L0000572	491547.26	3662472.96	216.68	1.55	0.00877	13.92		6.48	1.45
	L0000573	491553.92	3662460.73	216.34	1.55	0.00877	13.92		6.48	1.45
	L0000574	491560.58	3662448.50	216.00	1.55	0.00877	13.92		6.48	1.45
	L0000575	491567.24	3662436.27	215.67	1.55	0.00877	13.92		6.48	1.45
	L0000576	491573.90	3662424.04	215.40	1.55	0.00877	13.92		6.48	1.45
	L0000577	491580.56	3662411.81	215.06	1.55	0.00877	13.92		6.48	1.45
	L0000578	491587.44	3662399.72	214.67	1.55	0.00877	13.92		6.48	1.45
	L0000579	491594.90	3662387.95	214.28	1.55	0.00877	13.92		6.48	1.45
	L0000580	491602.35	3662376.19	213.89	1.55	0.00877	13.92		6.48	1.45
	L0000581	491609.80	3662364.43	213.44	1.55	0.00877	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S1	L0000582	491617.25	3662352.66	213.03	1.55	0.00877	13.92		6.48	1.45
	L0000583	491624.70	3662340.90	212.66	1.55	0.00877	13.92		6.48	1.45
	L0000584	491632.15	3662329.14	212.24	1.55	0.00877	13.92		6.48	1.45
	L0000585	491639.60	3662317.37	211.83	1.55	0.00877	13.92		6.48	1.45
	L0000586	491647.05	3662305.61	211.45	1.55	0.00877	13.92		6.48	1.45
	L0000587	491654.51	3662293.85	211.06	1.55	0.00877	13.92		6.48	1.45
	L0000588	491662.31	3662282.32	210.59	1.55	0.00877	13.92		6.48	1.45
	L0000589	491670.42	3662271.00	210.09	1.55	0.00877	13.92		6.48	1.45
	L0000590	491678.53	3662259.68	209.67	1.55	0.00877	13.92		6.48	1.45
	L0000591	491686.64	3662248.36	209.19	1.55	0.00877	13.92		6.48	1.45
	L0000592	491694.75	3662237.04	208.67	1.55	0.00877	13.92		6.48	1.45
	L0000593	491702.86	3662225.73	208.24	1.55	0.00877	13.92		6.48	1.45
	L0000594	491710.97	3662214.41	207.75	1.55	0.00877	13.92		6.48	1.45
	L0000595	491719.09	3662203.09	207.24	1.55	0.00877	13.92		6.48	1.45
	L0000596	491727.20	3662191.77	206.84	1.55	0.00877	13.92		6.48	1.45
	L0000597	491735.31	3662180.45	206.40	1.55	0.00877	13.92		6.48	1.45
	L0000598	491743.42	3662169.13	205.95	1.55	0.00877	13.92		6.48	1.45
	L0000599	491751.53	3662157.81	205.59	1.55	0.00877	13.92		6.48	1.45
	L0000600	491759.64	3662146.50	205.25	1.55	0.00877	13.92		6.48	1.45
	L0000601	491767.75	3662135.18	204.89	1.55	0.00877	13.92		6.48	1.45
	L0000602	491775.86	3662123.86	204.47	1.55	0.00877	13.92		6.48	1.45
	L0000603	491783.97	3662112.54	204.15	1.55	0.00877	13.92		6.48	1.45
	L0000604	491792.09	3662101.22	203.84	1.55	0.00877	13.92		6.48	1.45
	L0000605	491800.20	3662089.90	203.45	1.55	0.00877	13.92		6.48	1.45
	L0000606	491808.31	3662078.58	203.16	1.55	0.00877	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S1	L0000607	491816.42	3662067.27	202.86	1.55	0.00877	13.92		6.48	1.45
	L0000608	491824.53	3662055.95	202.54	1.55	0.00877	13.92		6.48	1.45
	L0000609	491832.64	3662044.63	202.30	1.55	0.00877	13.92		6.48	1.45
	L0000610	491841.06	3662033.54	202.04	1.55	0.00877	13.92		6.48	1.45
	L0000611	491849.95	3662022.83	201.73	1.55	0.00877	13.92		6.48	1.45
	L0000612	491858.84	3662012.11	201.56	1.55	0.00877	13.92		6.48	1.45
	L0000613	491867.73	3662001.40	201.32	1.55	0.00877	13.92		6.48	1.45
	L0000614	491876.62	3661990.68	201.07	1.55	0.00877	13.92		6.48	1.45
	L0000615	491885.52	3661979.97	200.95	1.55	0.00877	13.92		6.48	1.45
	L0000616	491894.41	3661969.25	200.76	1.55	0.00877	13.92		6.48	1.45
	L0000617	491903.30	3661958.53	200.57	1.55	0.00877	13.92		6.48	1.45
	L0000618	491912.19	3661947.82	200.48	1.55	0.00877	13.92		6.48	1.45
	L0000619	491921.09	3661937.10	200.33	1.55	0.00877	13.92		6.48	1.45
	L0000620	491929.98	3661926.39	200.20	1.55	0.00877	13.92		6.48	1.45
	L0000621	491939.07	3661915.84	200.14	1.55	0.00877	13.92		6.48	1.45
	L0000622	491948.38	3661905.48	200.01	1.55	0.00877	13.92		6.48	1.45
	L0000623	491957.68	3661895.13	199.92	1.55	0.00877	13.92		6.48	1.45
	L0000624	491966.99	3661884.77	199.87	1.55	0.00877	13.92		6.48	1.45
	L0000625	491976.29	3661874.41	199.80	1.55	0.00877	13.92		6.48	1.45
	L0000626	491985.60	3661864.05	199.75	1.55	0.00877	13.92		6.48	1.45
	L0000627	491994.90	3661853.69	199.72	1.55	0.00877	13.92		6.48	1.45
	L0000628	492004.21	3661843.33	199.71	1.55	0.00877	13.92		6.48	1.45
	L0000629	492013.51	3661832.97	199.70	1.55	0.00877	13.92		6.48	1.45
	L0000630	492022.82	3661822.61	199.70	1.55	0.00877	13.92		6.48	1.45
	L0000631	492032.12	3661812.25	199.76	1.55	0.00877	13.92		6.48	1.45

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I15S1	L0000632	492041.43	3661801.89	199.79	1.55	0.00877	13.92		6.48	1.45
	L0000633	492050.73	3661791.53	199.83	1.55	0.00877	13.92		6.48	1.45
	L0000634	492060.04	3661781.17	199.90	1.55	0.00877	13.92		6.48	1.45
	L0000635	492069.34	3661770.81	199.96	1.55	0.00877	13.92		6.48	1.45
	L0000636	492078.65	3661760.45	200.02	1.55	0.00877	13.92		6.48	1.45
	L0000637	492087.95	3661750.10	200.09	1.55	0.00877	13.92		6.48	1.45
	L0000638	492097.26	3661739.74	200.16	1.55	0.00877	13.92		6.48	1.45
	L0000639	492106.56	3661729.38	200.24	1.55	0.00877	13.92		6.48	1.45
	L0000640	492115.87	3661719.02	200.28	1.55	0.00877	13.92		6.48	1.45
	L0000641	492125.17	3661708.66	200.07	1.55	0.00877	13.92		6.48	1.45
	L0000642	492134.48	3661698.30	199.11	1.55	0.00877	13.92		6.48	1.45
	L0000643	492143.78	3661687.94	196.72	1.55	0.00877	13.92		6.48	1.45
	L0000644	492153.09	3661677.58	194.75	1.55	0.00877	13.92		6.48	1.45
	L0000645	492162.39	3661667.22	195.05	1.55	0.00877	13.92		6.48	1.45
	L0000646	492171.70	3661656.86	197.61	1.55	0.00877	13.92		6.48	1.45
	L0000647	492180.95	3661646.46	199.99	1.55	0.00877	13.92		6.48	1.45
	L0000648	492190.07	3661635.94	200.86	1.55	0.00877	13.92		6.48	1.45
	L0000649	492199.20	3661625.41	200.94	1.55	0.00877	13.92		6.48	1.45
	L0000650	492208.32	3661614.89	201.00	1.55	0.00877	13.92		6.48	1.45
	L0000651	492217.44	3661604.37	201.04	1.55	0.00877	13.92		6.48	1.45
	L0000652	492226.56	3661593.85	201.16	1.55	0.00877	13.92		6.48	1.45
	L0000653	492235.68	3661583.33	199.65	1.55	0.00877	13.92		6.48	1.45
	L0000654	492244.80	3661572.81	197.12	1.55	0.00877	13.92		6.48	1.45
	L0000655	492253.93	3661562.29	194.49	1.55	0.00877	13.92		6.48	1.45
	L0000656	492263.05	3661551.77	194.27	1.55	0.00877	13.92		6.48	1.45

Source Pathway - Source Inputs

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I15S2	L0000657	491351.97	3662831.82	222.79	1.55	0.00877	13.92		6.48	1.45
	L0000658	491358.09	3662819.31	222.13	1.55	0.00877	13.92		6.48	1.45
	L0000659	491364.21	3662806.80	221.99	1.55	0.00877	13.92		6.48	1.45
	L0000660	491370.33	3662794.29	221.85	1.55	0.00877	13.92		6.48	1.45
	L0000661	491376.44	3662781.79	222.32	1.55	0.00877	13.92		6.48	1.45
	L0000662	491382.56	3662769.28	221.64	1.55	0.00877	13.92		6.48	1.45
	L0000663	491388.68	3662756.77	221.69	1.55	0.00877	13.92		6.48	1.45
	L0000664	491394.80	3662744.26	221.76	1.55	0.00877	13.92		6.48	1.45
	L0000665	491400.91	3662731.75	221.56	1.55	0.00877	13.92		6.48	1.45
	L0000666	491407.03	3662719.24	221.16	1.55	0.00877	13.92		6.48	1.45
	L0000667	491413.15	3662706.73	220.84	1.55	0.00877	13.92		6.48	1.45
	L0000668	491419.27	3662694.22	221.08	1.55	0.00877	13.92		6.48	1.45
	L0000669	491425.39	3662681.71	221.27	1.55	0.00877	13.92		6.48	1.45
	L0000670	491431.72	3662669.31	220.72	1.55	0.00877	13.92		6.48	1.45
	L0000671	491438.07	3662656.92	220.31	1.55	0.00877	13.92		6.48	1.45
	L0000672	491444.43	3662644.53	220.16	1.55	0.00877	13.92		6.48	1.45
	L0000673	491450.79	3662632.14	220.45	1.55	0.00877	13.92		6.48	1.45
	L0000674	491457.14	3662619.76	220.25	1.55	0.00877	13.92		6.48	1.45
	L0000675	491463.50	3662607.37	219.74	1.55	0.00877	13.92		6.48	1.45
	L0000676	491469.86	3662594.98	219.82	1.55	0.00877	13.92		6.48	1.45
	L0000677	491476.22	3662582.59	219.62	1.55	0.00877	13.92		6.48	1.45
	L0000678	491482.57	3662570.20	219.33	1.55	0.00877	13.92		6.48	1.45
	L0000679	491488.93	3662557.81	218.92	1.55	0.00877	13.92		6.48	1.45
	L0000680	491495.29	3662545.42	218.71	1.55	0.00877	13.92		6.48	1.45
	L0000681	491501.64	3662533.03	218.95	1.55	0.00877	13.92		6.48	1.45

Source Pathway - Source Inputs

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I15S2	L0000682	491508.00	3662520.64	218.51	1.55	0.00877	13.92		6.48	1.45
	L0000683	491514.84	3662508.51	217.85	1.55	0.00877	13.92		6.48	1.45
	L0000684	491521.69	3662496.39	217.55	1.55	0.00877	13.92		6.48	1.45
	L0000685	491528.54	3662484.27	217.23	1.55	0.00877	13.92		6.48	1.45
	L0000686	491535.39	3662472.15	217.02	1.55	0.00877	13.92		6.48	1.45
	L0000687	491542.24	3662460.02	216.64	1.55	0.00877	13.92		6.48	1.45
	L0000688	491549.09	3662447.90	216.50	1.55	0.00877	13.92		6.48	1.45
	L0000689	491556.01	3662435.81	216.28	1.55	0.00877	13.92		6.48	1.45
	L0000690	491562.94	3662423.74	215.63	1.55	0.00877	13.92		6.48	1.45
	L0000691	491569.87	3662411.66	215.29	1.55	0.00877	13.92		6.48	1.45
	L0000692	491576.80	3662399.58	214.94	1.55	0.00877	13.92		6.48	1.45
	L0000693	491584.10	3662387.72	214.55	1.55	0.00877	13.92		6.48	1.45
	L0000694	491591.40	3662375.86	214.18	1.55	0.00877	13.92		6.48	1.45
	L0000695	491598.70	3662364.00	213.77	1.55	0.00877	13.92		6.48	1.45
	L0000696	491605.99	3662352.14	213.41	1.55	0.00877	13.92		6.48	1.45
	L0000697	491613.29	3662340.28	212.98	1.55	0.00877	13.92		6.48	1.45
	L0000698	491620.59	3662328.43	212.55	1.55	0.00877	13.92		6.48	1.45
	L0000699	491627.92	3662316.59	212.11	1.55	0.00877	13.92		6.48	1.45
	L0000700	491635.54	3662304.93	211.71	1.55	0.00877	13.92		6.48	1.45
	L0000701	491643.16	3662293.28	211.31	1.55	0.00877	13.92		6.48	1.45
	L0000702	491650.78	3662281.62	210.88	1.55	0.00877	13.92		6.48	1.45
	L0000703	491658.40	3662269.97	210.40	1.55	0.00877	13.92		6.48	1.45
	L0000704	491666.02	3662258.31	209.98	1.55	0.00877	13.92		6.48	1.45
	L0000705	491673.64	3662246.66	209.56	1.55	0.00877	13.92		6.48	1.45
	L0000706	491681.54	3662235.19	209.05	1.55	0.00877	13.92		6.48	1.45

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I15S2	L0000707	491689.57	3662223.82	208.57	1.55	0.00877	13.92		6.48	1.45
	L0000708	491697.60	3662212.44	208.15	1.55	0.00877	13.92		6.48	1.45
	L0000709	491705.63	3662201.06	207.65	1.55	0.00877	13.92		6.48	1.45
	L0000710	491713.66	3662189.69	207.20	1.55	0.00877	13.92		6.48	1.45
	L0000711	491721.69	3662178.31	206.78	1.55	0.00877	13.92		6.48	1.45
	L0000712	491729.72	3662166.93	206.35	1.55	0.00877	13.92		6.48	1.45
	L0000713	491738.06	3662155.79	205.92	1.55	0.00877	13.92		6.48	1.45
	L0000714	491746.41	3662144.65	205.52	1.55	0.00877	13.92		6.48	1.45
	L0000715	491754.77	3662133.50	205.22	1.55	0.00877	13.92		6.48	1.45
	L0000716	491763.12	3662122.36	204.82	1.55	0.00877	13.92		6.48	1.45
	L0000717	491771.47	3662111.22	204.44	1.55	0.00877	13.92		6.48	1.45
	L0000718	491779.82	3662100.08	204.23	1.55	0.00877	13.92		6.48	1.45
	L0000719	491788.17	3662088.93	203.86	1.55	0.00877	13.92		6.48	1.45
	L0000720	491796.52	3662077.79	203.38	1.55	0.00877	13.92		6.48	1.45
	L0000721	491804.87	3662066.65	203.10	1.55	0.00877	13.92		6.48	1.45
	L0000722	491813.22	3662055.50	202.79	1.55	0.00877	13.92		6.48	1.45
	L0000723	491821.57	3662044.36	202.52	1.55	0.00877	13.92		6.48	1.45
	L0000724	491830.13	3662033.38	202.28	1.55	0.00877	13.92		6.48	1.45
	L0000725	491838.98	3662022.63	201.99	1.55	0.00877	13.92		6.48	1.45
	L0000726	491847.82	3662011.87	201.76	1.55	0.00877	13.92		6.48	1.45
	L0000727	491856.67	3662001.12	201.57	1.55	0.00877	13.92		6.48	1.45
	L0000728	491865.58	3661990.42	201.30	1.55	0.00877	13.92		6.48	1.45
	L0000729	491874.53	3661979.75	201.13	1.55	0.00877	13.92		6.48	1.45
	L0000730	491883.49	3661969.09	200.98	1.55	0.00877	13.92		6.48	1.45
	L0000731	491892.44	3661958.43	200.76	1.55	0.00877	13.92		6.48	1.45

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I15S2	L0000732	491901.40	3661947.76	200.65	1.55	0.00877	13.92		6.48	1.45
	L0000733	491910.35	3661937.10	200.54	1.55	0.00877	13.92		6.48	1.45
	L0000734	491919.31	3661926.44	200.46	1.55	0.00877	13.92		6.48	1.45
	L0000735	491928.26	3661915.77	200.30	1.55	0.00877	13.92		6.48	1.45
	L0000736	491937.22	3661905.11	200.22	1.55	0.00877	13.92		6.48	1.45
	L0000737	491946.17	3661894.45	200.16	1.55	0.00877	13.92		6.48	1.45
	L0000738	491955.13	3661883.78	200.00	1.55	0.00877	13.92		6.48	1.45
	L0000739	491964.08	3661873.12	199.95	1.55	0.00877	13.92		6.48	1.45
	L0000740	491973.55	3661862.92	199.85	1.55	0.00877	13.92		6.48	1.45
	L0000741	491983.29	3661852.97	199.77	1.55	0.00877	13.92		6.48	1.45
	L0000742	491993.03	3661843.02	199.75	1.55	0.00877	13.92		6.48	1.45
	L0000743	492002.78	3661833.07	199.70	1.55	0.00877	13.92		6.48	1.45
	L0000744	492012.57	3661823.17	199.66	1.55	0.00877	13.92		6.48	1.45
	L0000745	492022.45	3661813.36	199.70	1.55	0.00877	13.92		6.48	1.45
	L0000746	492032.33	3661803.55	199.77	1.55	0.00877	13.92		6.48	1.45
	L0000747	492042.22	3661793.74	199.77	1.55	0.00877	13.92		6.48	1.45
	L0000748	492051.71	3661783.57	199.85	1.55	0.00877	13.92		6.48	1.45
	L0000749	492060.95	3661773.15	199.92	1.55	0.00877	13.92		6.48	1.45
	L0000750	492070.20	3661762.74	199.94	1.55	0.00877	13.92		6.48	1.45
	L0000751	492079.44	3661752.32	200.03	1.55	0.00877	13.92		6.48	1.45
	L0000752	492088.68	3661741.91	200.09	1.55	0.00877	13.92		6.48	1.45
	L0000753	492097.93	3661731.49	200.13	1.55	0.00877	13.92		6.48	1.45
	L0000754	492107.17	3661721.08	200.23	1.55	0.00877	13.92		6.48	1.45
	L0000755	492116.41	3661710.66	200.12	1.55	0.00877	13.92		6.48	1.45
	L0000756	492125.66	3661700.25	199.57	1.55	0.00877	13.92		6.48	1.45

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I15S2	L0000757	492134.90	3661689.84	198.51	1.55	0.00877	13.92		6.48	1.45
	L0000758	492144.14	3661679.42	196.15	1.55	0.00877	13.92		6.48	1.45
	L0000759	492153.39	3661669.01	194.55	1.55	0.00877	13.92		6.48	1.45
	L0000760	492162.63	3661658.59	195.27	1.55	0.00877	13.92		6.48	1.45
	L0000761	492171.87	3661648.18	197.67	1.55	0.00877	13.92		6.48	1.45
	L0000762	492181.12	3661637.76	199.93	1.55	0.00877	13.92		6.48	1.45
	L0000763	492190.36	3661627.35	200.83	1.55	0.00877	13.92		6.48	1.45
	L0000764	492199.60	3661616.93	200.71	1.55	0.00877	13.92		6.48	1.45
	L0000765	492208.85	3661606.52	200.88	1.55	0.00877	13.92		6.48	1.45
	L0000766	492218.09	3661596.11	201.02	1.55	0.00877	13.92		6.48	1.45
	L0000767	492227.33	3661585.69	200.02	1.55	0.00877	13.92		6.48	1.45
	L0000768	492236.58	3661575.28	197.82	1.55	0.00877	13.92		6.48	1.45
	L0000769	492245.82	3661564.86	195.26	1.55	0.00877	13.92		6.48	1.45
	L0000770	492255.06	3661554.45	194.15	1.55	0.00877	13.92		6.48	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S3	L0000771	491342.30	3662831.42	223.93	3.50	0.00935	14.84		6.90	3.25
	L0000772	491348.94	3662818.15	223.65	3.50	0.00935	14.84		6.90	3.25
	L0000773	491355.58	3662804.88	222.01	3.50	0.00935	14.84		6.90	3.25
	L0000774	491362.22	3662791.61	221.82	3.50	0.00935	14.84		6.90	3.25
	L0000775	491368.86	3662778.34	223.32	3.50	0.00935	14.84		6.90	3.25
	L0000776	491375.50	3662765.06	223.15	3.50	0.00935	14.84		6.90	3.25
	L0000777	491382.14	3662751.79	221.74	3.50	0.00935	14.84		6.90	3.25
	L0000778	491388.78	3662738.52	221.90	3.50	0.00935	14.84		6.90	3.25
	L0000779	491395.42	3662725.25	222.15	3.50	0.00935	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S3	L0000780	491402.06	3662711.98	221.93	3.50	0.00935	14.84		6.90	3.25
	L0000781	491408.70	3662698.71	220.79	3.50	0.00935	14.84		6.90	3.25
	L0000782	491415.34	3662685.44	221.73	3.50	0.00935	14.84		6.90	3.25
	L0000783	491421.98	3662672.17	221.86	3.50	0.00935	14.84		6.90	3.25
	L0000784	491428.62	3662658.90	221.42	3.50	0.00935	14.84		6.90	3.25
	L0000785	491435.26	3662645.63	220.15	3.50	0.00935	14.84		6.90	3.25
	L0000786	491441.90	3662632.36	220.86	3.50	0.00935	14.84		6.90	3.25
	L0000787	491448.54	3662619.09	221.57	3.50	0.00935	14.84		6.90	3.25
	L0000788	491455.18	3662605.82	220.89	3.50	0.00935	14.84		6.90	3.25
	L0000789	491461.82	3662592.55	220.04	3.50	0.00935	14.84		6.90	3.25
	L0000790	491468.46	3662579.28	219.98	3.50	0.00935	14.84		6.90	3.25
	L0000791	491475.10	3662566.01	220.23	3.50	0.00935	14.84		6.90	3.25
	L0000792	491482.03	3662552.89	219.62	3.50	0.00935	14.84		6.90	3.25
	L0000793	491489.40	3662540.01	219.35	3.50	0.00935	14.84		6.90	3.25
	L0000794	491496.78	3662527.13	219.68	3.50	0.00935	14.84		6.90	3.25
	L0000795	491504.15	3662514.25	219.14	3.50	0.00935	14.84		6.90	3.25
	L0000796	491511.52	3662501.37	217.83	3.50	0.00935	14.84		6.90	3.25
	L0000797	491518.89	3662488.49	217.51	3.50	0.00935	14.84		6.90	3.25
	L0000798	491526.26	3662475.62	217.53	3.50	0.00935	14.84		6.90	3.25
	L0000799	491533.63	3662462.74	217.16	3.50	0.00935	14.84		6.90	3.25
	L0000800	491541.00	3662449.86	216.77	3.50	0.00935	14.84		6.90	3.25
	L0000801	491548.37	3662436.98	216.81	3.50	0.00935	14.84		6.90	3.25
	L0000802	491555.74	3662424.10	216.38	3.50	0.00935	14.84		6.90	3.25
	L0000803	491563.11	3662411.22	215.45	3.50	0.00935	14.84		6.90	3.25
	L0000804	491570.48	3662398.34	215.08	3.50	0.00935	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S3	L0000805	491577.86	3662385.46	214.72	3.50	0.00935	14.84		6.90	3.25
	L0000806	491585.23	3662372.58	214.33	3.50	0.00935	14.84		6.90	3.25
	L0000807	491592.60	3662359.70	213.92	3.50	0.00935	14.84		6.90	3.25
	L0000808	491599.97	3662346.82	213.60	3.50	0.00935	14.84		6.90	3.25
	L0000809	491607.34	3662333.94	213.18	3.50	0.00935	14.84		6.90	3.25
	L0000810	491614.71	3662321.07	212.56	3.50	0.00935	14.84		6.90	3.25
	L0000811	491622.08	3662308.19	212.09	3.50	0.00935	14.84		6.90	3.25
	L0000812	491629.45	3662295.31	211.62	3.50	0.00935	14.84		6.90	3.25
	L0000813	491637.56	3662282.89	211.19	3.50	0.00935	14.84		6.90	3.25
	L0000814	491645.84	3662270.57	210.78	3.50	0.00935	14.84		6.90	3.25
	L0000815	491654.12	3662258.25	210.19	3.50	0.00935	14.84		6.90	3.25
	L0000816	491662.39	3662245.94	209.79	3.50	0.00935	14.84		6.90	3.25
	L0000817	491670.67	3662233.62	209.35	3.50	0.00935	14.84		6.90	3.25
	L0000818	491678.94	3662221.30	208.73	3.50	0.00935	14.84		6.90	3.25
	L0000819	491687.22	3662208.98	208.29	3.50	0.00935	14.84		6.90	3.25
	L0000820	491695.73	3662196.83	207.89	3.50	0.00935	14.84		6.90	3.25
	L0000821	491704.56	3662184.91	207.38	3.50	0.00935	14.84		6.90	3.25
	L0000822	491713.39	3662172.98	206.92	3.50	0.00935	14.84		6.90	3.25
	L0000823	491722.23	3662161.06	206.50	3.50	0.00935	14.84		6.90	3.25
	L0000824	491731.06	3662149.14	206.04	3.50	0.00935	14.84		6.90	3.25
	L0000825	491739.89	3662137.21	205.60	3.50	0.00935	14.84		6.90	3.25
	L0000826	491748.73	3662125.29	205.33	3.50	0.00935	14.84		6.90	3.25
	L0000827	491757.56	3662113.37	204.89	3.50	0.00935	14.84		6.90	3.25
	L0000828	491766.39	3662101.44	204.58	3.50	0.00935	14.84		6.90	3.25
	L0000829	491775.27	3662089.56	204.42	3.50	0.00935	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S3	L0000830	491785.05	3662078.40	203.82	3.50	0.00935	14.84		6.90	3.25
	L0000831	491794.84	3662067.24	203.32	3.50	0.00935	14.84		6.90	3.25
	L0000832	491804.62	3662056.08	202.99	3.50	0.00935	14.84		6.90	3.25
	L0000833	491814.40	3662044.92	202.63	3.50	0.00935	14.84		6.90	3.25
	L0000834	491824.18	3662033.76	202.42	3.50	0.00935	14.84		6.90	3.25
	L0000835	491833.96	3662022.60	202.12	3.50	0.00935	14.84		6.90	3.25
	L0000836	491843.75	3662011.45	201.76	3.50	0.00935	14.84		6.90	3.25
	L0000837	491853.53	3662000.29	201.63	3.50	0.00935	14.84		6.90	3.25
	L0000838	491863.31	3661989.13	201.32	3.50	0.00935	14.84		6.90	3.25
	L0000839	491873.09	3661977.97	201.15	3.50	0.00935	14.84		6.90	3.25
	L0000840	491882.81	3661966.75	201.00	3.50	0.00935	14.84		6.90	3.25
	L0000841	491892.27	3661955.33	200.75	3.50	0.00935	14.84		6.90	3.25
	L0000842	491901.74	3661943.90	200.67	3.50	0.00935	14.84		6.90	3.25
	L0000843	491911.21	3661932.47	200.53	3.50	0.00935	14.84		6.90	3.25
	L0000844	491920.67	3661921.04	200.54	3.50	0.00935	14.84		6.90	3.25
	L0000845	491930.14	3661909.62	200.31	3.50	0.00935	14.84		6.90	3.25
	L0000846	491939.61	3661898.19	200.23	3.50	0.00935	14.84		6.90	3.25
	L0000847	491949.07	3661886.76	200.16	3.50	0.00935	14.84		6.90	3.25
	L0000848	491958.54	3661875.34	200.01	3.50	0.00935	14.84		6.90	3.25
	L0000849	491968.01	3661863.91	199.93	3.50	0.00935	14.84		6.90	3.25
	L0000850	491977.47	3661852.48	199.79	3.50	0.00935	14.84		6.90	3.25
	L0000851	491987.19	3661841.27	199.77	3.50	0.00935	14.84		6.90	3.25
	L0000852	491997.38	3661830.49	199.72	3.50	0.00935	14.84		6.90	3.25
	L0000853	492007.57	3661819.70	199.62	3.50	0.00935	14.84		6.90	3.25
	L0000854	492017.76	3661808.91	199.66	3.50	0.00935	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S3	L0000855	492027.95	3661798.13	199.68	3.50	0.00935	14.84		6.90	3.25
	L0000856	492038.14	3661787.34	199.72	3.50	0.00935	14.84		6.90	3.25
	L0000857	492048.25	3661776.48	199.81	3.50	0.00935	14.84		6.90	3.25
	L0000858	492058.10	3661765.38	199.85	3.50	0.00935	14.84		6.90	3.25
	L0000859	492067.96	3661754.29	199.89	3.50	0.00935	14.84		6.90	3.25
	L0000860	492077.81	3661743.19	199.97	3.50	0.00935	14.84		6.90	3.25
	L0000861	492087.66	3661732.09	199.99	3.50	0.00935	14.84		6.90	3.25
	L0000862	492097.51	3661721.00	200.06	3.50	0.00935	14.84		6.90	3.25
	L0000863	492107.37	3661709.90	200.02	3.50	0.00935	14.84		6.90	3.25
	L0000864	492117.22	3661698.80	199.49	3.50	0.00935	14.84		6.90	3.25
	L0000865	492127.07	3661687.71	198.82	3.50	0.00935	14.84		6.90	3.25
	L0000866	492136.93	3661676.61	196.89	3.50	0.00935	14.84		6.90	3.25
	L0000867	492146.78	3661665.52	194.87	3.50	0.00935	14.84		6.90	3.25
	L0000868	492156.63	3661654.42	194.33	3.50	0.00935	14.84		6.90	3.25
	L0000869	492166.48	3661643.32	196.20	3.50	0.00935	14.84		6.90	3.25
	L0000870	492176.34	3661632.23	198.60	3.50	0.00935	14.84		6.90	3.25
	L0000871	492186.19	3661621.13	200.67	3.50	0.00935	14.84		6.90	3.25
	L0000872	492196.04	3661610.03	200.09	3.50	0.00935	14.84		6.90	3.25
	L0000873	492205.89	3661598.94	200.42	3.50	0.00935	14.84		6.90	3.25
	L0000874	492215.75	3661587.84	200.27	3.50	0.00935	14.84		6.90	3.25
	L0000875	492225.60	3661576.75	197.93	3.50	0.00935	14.84		6.90	3.25
	L0000876	492235.45	3661565.65	195.60	3.50	0.00935	14.84		6.90	3.25
	L0000877	492245.30	3661554.55	194.27	3.50	0.00935	14.84		6.90	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N4	L0000878	492302.37	3661531.87	195.36	1.55	0.01493	13.92		6.48	1.45
	L0000879	492311.74	3661521.56	196.25	1.55	0.01493	13.92		6.48	1.45
	L0000880	492321.11	3661511.26	198.75	1.55	0.01493	13.92		6.48	1.45
	L0000881	492330.48	3661500.96	201.17	1.55	0.01493	13.92		6.48	1.45
	L0000882	492339.85	3661490.66	201.78	1.55	0.01493	13.92		6.48	1.45
	L0000883	492349.21	3661480.35	201.59	1.55	0.01493	13.92		6.48	1.45
	L0000884	492358.58	3661470.05	201.82	1.55	0.01493	13.92		6.48	1.45
	L0000885	492367.95	3661459.75	201.96	1.55	0.01493	13.92		6.48	1.45
	L0000886	492377.32	3661449.45	201.99	1.55	0.01493	13.92		6.48	1.45
	L0000887	492386.68	3661439.14	202.08	1.55	0.01493	13.92		6.48	1.45
	L0000888	492396.05	3661428.84	202.10	1.55	0.01493	13.92		6.48	1.45
	L0000889	492405.42	3661418.54	202.11	1.55	0.01493	13.92		6.48	1.45
	L0000890	492414.79	3661408.23	202.21	1.55	0.01493	13.92		6.48	1.45
	L0000891	492424.15	3661397.93	202.18	1.55	0.01493	13.92		6.48	1.45
	L0000892	492433.52	3661387.63	202.17	1.55	0.01493	13.92		6.48	1.45
	L0000893	492442.89	3661377.33	202.26	1.55	0.01493	13.92		6.48	1.45
	L0000894	492452.26	3661367.02	202.19	1.55	0.01493	13.92		6.48	1.45
	L0000895	492461.63	3661356.72	202.16	1.55	0.01493	13.92		6.48	1.45
	L0000896	492470.99	3661346.42	202.22	1.55	0.01493	13.92		6.48	1.45
	L0000897	492480.36	3661336.12	202.16	1.55	0.01493	13.92		6.48	1.45
	L0000898	492489.73	3661325.81	202.27	1.55	0.01493	13.92		6.48	1.45
	L0000899	492499.10	3661315.51	202.43	1.55	0.01493	13.92		6.48	1.45
	L0000900	492508.46	3661305.21	202.20	1.55	0.01493	13.92		6.48	1.45
	L0000901	492517.83	3661294.90	202.24	1.55	0.01493	13.92		6.48	1.45
	L0000902	492527.20	3661284.60	202.31	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N4	L0000903	492536.57	3661274.30	201.96	1.55	0.01493	13.92		6.48	1.45
	L0000904	492545.93	3661264.00	201.85	1.55	0.01493	13.92		6.48	1.45
	L0000905	492555.30	3661253.69	201.79	1.55	0.01493	13.92		6.48	1.45
	L0000906	492564.67	3661243.39	201.58	1.55	0.01493	13.92		6.48	1.45
	L0000907	492574.04	3661233.09	201.52	1.55	0.01493	13.92		6.48	1.45
	L0000908	492583.41	3661222.79	201.39	1.55	0.01493	13.92		6.48	1.45
	L0000909	492592.77	3661212.48	201.21	1.55	0.01493	13.92		6.48	1.45
	L0000910	492602.14	3661202.18	201.14	1.55	0.01493	13.92		6.48	1.45
	L0000911	492611.51	3661191.88	201.02	1.55	0.01493	13.92		6.48	1.45
	L0000912	492620.88	3661181.57	200.83	1.55	0.01493	13.92		6.48	1.45
	L0000913	492630.24	3661171.27	200.69	1.55	0.01493	13.92		6.48	1.45
	L0000914	492639.61	3661160.97	200.55	1.55	0.01493	13.92		6.48	1.45
	L0000915	492648.95	3661150.64	200.36	1.55	0.01493	13.92		6.48	1.45
	L0000916	492658.30	3661140.32	200.18	1.55	0.01493	13.92		6.48	1.45
	L0000917	492667.64	3661129.99	200.02	1.55	0.01493	13.92		6.48	1.45
	L0000918	492676.98	3661119.67	199.83	1.55	0.01493	13.92		6.48	1.45
	L0000919	492686.33	3661109.34	199.63	1.55	0.01493	13.92		6.48	1.45
	L0000920	492695.67	3661099.02	199.48	1.55	0.01493	13.92		6.48	1.45
	L0000921	492705.01	3661088.69	199.27	1.55	0.01493	13.92		6.48	1.45
	L0000922	492714.36	3661078.37	199.06	1.55	0.01493	13.92		6.48	1.45
	L0000923	492723.70	3661068.04	198.89	1.55	0.01493	13.92		6.48	1.45
	L0000924	492733.04	3661057.72	198.66	1.55	0.01493	13.92		6.48	1.45
	L0000925	492742.39	3661047.39	198.44	1.55	0.01493	13.92		6.48	1.45
	L0000926	492751.73	3661037.07	198.22	1.55	0.01493	13.92		6.48	1.45
	L0000927	492761.07	3661026.74	198.00	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N4	L0000928	492770.42	3661016.42	197.76	1.55	0.01493	13.92		6.48	1.45
	L0000929	492779.76	3661006.09	197.49	1.55	0.01493	13.92		6.48	1.45
	L0000930	492789.10	3660995.77	197.28	1.55	0.01493	13.92		6.48	1.45
	L0000931	492798.45	3660985.44	197.01	1.55	0.01493	13.92		6.48	1.45
	L0000932	492807.79	3660975.12	196.70	1.55	0.01493	13.92		6.48	1.45
	L0000933	492817.11	3660964.78	196.44	1.55	0.01493	13.92		6.48	1.45
	L0000934	492825.83	3660953.92	196.12	1.55	0.01493	13.92		6.48	1.45
	L0000935	492834.54	3660943.06	195.76	1.55	0.01493	13.92		6.48	1.45
	L0000936	492843.26	3660932.20	195.49	1.55	0.01493	13.92		6.48	1.45
	L0000937	492851.97	3660921.34	195.16	1.55	0.01493	13.92		6.48	1.45
	L0000938	492860.69	3660910.48	194.81	1.55	0.01493	13.92		6.48	1.45
	L0000939	492869.41	3660899.62	194.52	1.55	0.01493	13.92		6.48	1.45
	L0000940	492878.12	3660888.76	194.16	1.55	0.01493	13.92		6.48	1.45
	L0000941	492886.83	3660877.89	193.79	1.55	0.01493	13.92		6.48	1.45
	L0000942	492895.31	3660866.85	193.47	1.55	0.01493	13.92		6.48	1.45
	L0000943	492903.78	3660855.80	193.08	1.55	0.01493	13.92		6.48	1.45
	L0000944	492912.26	3660844.75	192.71	1.55	0.01493	13.92		6.48	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N5	L0001115	492321.16	3661528.46	194.70	1.55	0.01923	17.89		8.32	1.45
	L0001116	492333.21	3661515.24	198.06	1.55	0.01923	17.89		8.32	1.45
	L0001117	492345.26	3661502.03	200.61	1.55	0.01923	17.89		8.32	1.45
	L0001118	492357.32	3661488.81	200.93	1.55	0.01923	17.89		8.32	1.45
	L0001119	492369.37	3661475.59	201.20	1.55	0.01923	17.89		8.32	1.45
	L0001120	492381.42	3661462.37	201.79	1.55	0.01923	17.89		8.32	1.45

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N5	L0001121	492393.47	3661449.16	201.74	1.55	0.01923	17.89		8.32	1.45
	L0001122	492405.52	3661435.94	201.91	1.55	0.01923	17.89		8.32	1.45
	L0001123	492417.58	3661422.72	201.96	1.55	0.01923	17.89		8.32	1.45
	L0001124	492429.63	3661409.50	201.76	1.55	0.01923	17.89		8.32	1.45
	L0001125	492441.68	3661396.29	202.00	1.55	0.01923	17.89		8.32	1.45
	L0001126	492453.73	3661383.07	201.67	1.55	0.01923	17.89		8.32	1.45
	L0001127	492465.78	3661369.85	202.00	1.55	0.01923	17.89		8.32	1.45
	L0001128	492477.83	3661356.63	201.69	1.55	0.01923	17.89		8.32	1.45
	L0001129	492489.89	3661343.42	201.95	1.55	0.01923	17.89		8.32	1.45
	L0001130	492501.94	3661330.20	201.87	1.55	0.01923	17.89		8.32	1.45
	L0001131	492513.99	3661316.98	201.83	1.55	0.01923	17.89		8.32	1.45
	L0001132	492526.04	3661303.76	201.86	1.55	0.01923	17.89		8.32	1.45
	L0001133	492538.09	3661290.55	201.76	1.55	0.01923	17.89		8.32	1.45
	L0001134	492550.15	3661277.33	201.58	1.55	0.01923	17.89		8.32	1.45
	L0001135	492562.22	3661264.13	201.49	1.55	0.01923	17.89		8.32	1.45
	L0001136	492574.31	3661250.95	201.35	1.55	0.01923	17.89		8.32	1.45
	L0001137	492586.40	3661237.76	201.17	1.55	0.01923	17.89		8.32	1.45
	L0001138	492598.49	3661224.58	201.01	1.55	0.01923	17.89		8.32	1.45
	L0001139	492610.57	3661211.40	200.86	1.55	0.01923	17.89		8.32	1.45
	L0001140	492622.66	3661198.21	200.70	1.55	0.01923	17.89		8.32	1.45
	L0001141	492634.67	3661184.96	200.49	1.55	0.01923	17.89		8.32	1.45
	L0001142	492646.59	3661171.62	200.30	1.55	0.01923	17.89		8.32	1.45
	L0001143	492658.51	3661158.28	200.11	1.55	0.01923	17.89		8.32	1.45
	L0001144	492670.43	3661144.94	199.86	1.55	0.01923	17.89		8.32	1.45
	L0001145	492682.35	3661131.61	199.86	1.55	0.01923	17.89		8.32	1.45

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N5	L0001146	492694.27	3661118.27	199.45	1.55	0.01923	17.89		8.32	1.45
	L0001147	492706.19	3661104.93	199.56	1.55	0.01923	17.89		8.32	1.45
	L0001148	492718.11	3661091.59	199.05	1.55	0.01923	17.89		8.32	1.45
	L0001149	492730.03	3661078.26	198.98	1.55	0.01923	17.89		8.32	1.45
	L0001150	492741.95	3661064.92	198.62	1.55	0.01923	17.89		8.32	1.45
	L0001151	492753.86	3661051.58	198.33	1.55	0.01923	17.89		8.32	1.45
	L0001152	492765.78	3661038.24	198.36	1.55	0.01923	17.89		8.32	1.45
	L0001153	492777.70	3661024.91	197.84	1.55	0.01923	17.89		8.32	1.45
	L0001154	492789.62	3661011.57	198.10	1.55	0.01923	17.89		8.32	1.45
	L0001155	492801.54	3660998.23	197.30	1.55	0.01923	17.89		8.32	1.45
	L0001156	492813.46	3660984.90	197.59	1.55	0.01923	17.89		8.32	1.45
	L0001157	492825.38	3660971.56	196.60	1.55	0.01923	17.89		8.32	1.45
	L0001158	492837.30	3660958.22	196.77	1.55	0.01923	17.89		8.32	1.45
	L0001159	492849.22	3660944.88	195.97	1.55	0.01923	17.89		8.32	1.45
	L0001160	492861.07	3660931.49	195.78	1.55	0.01923	17.89		8.32	1.45
	L0001161	492871.94	3660917.28	195.39	1.55	0.01923	17.89		8.32	1.45
	L0001162	492882.80	3660903.07	194.56	1.55	0.01923	17.89		8.32	1.45
	L0001163	492893.66	3660888.86	194.53	1.55	0.01923	17.89		8.32	1.45
	L0001164	492904.52	3660874.65	193.65	1.55	0.01923	17.89		8.32	1.45
	L0001165	492915.39	3660860.44	193.53	1.55	0.01923	17.89		8.32	1.45
	L0001166	492926.25	3660846.23	192.70	1.55	0.01923	17.89		8.32	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N6	L0001167	492333.37	3661529.57	195.06	3.50	0.01613	14.84		6.90	3.25
	L0001168	492343.40	3661518.63	197.38	3.50	0.01613	14.84		6.90	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N6	L0001169	492353.43	3661507.70	199.02	3.50	0.01613	14.84		6.90	3.25
	L0001170	492363.47	3661496.76	200.13	3.50	0.01613	14.84		6.90	3.25
	L0001171	492373.50	3661485.83	199.88	3.50	0.01613	14.84		6.90	3.25
	L0001172	492383.53	3661474.89	200.52	3.50	0.01613	14.84		6.90	3.25
	L0001173	492393.56	3661463.96	201.31	3.50	0.01613	14.84		6.90	3.25
	L0001174	492403.59	3661453.02	200.35	3.50	0.01613	14.84		6.90	3.25
	L0001175	492413.62	3661442.09	200.89	3.50	0.01613	14.84		6.90	3.25
	L0001176	492423.59	3661431.10	200.89	3.50	0.01613	14.84		6.90	3.25
	L0001177	492433.56	3661420.10	200.49	3.50	0.01613	14.84		6.90	3.25
	L0001178	492443.52	3661409.11	201.32	3.50	0.01613	14.84		6.90	3.25
	L0001179	492453.49	3661398.12	200.82	3.50	0.01613	14.84		6.90	3.25
	L0001180	492463.46	3661387.12	200.77	3.50	0.01613	14.84		6.90	3.25
	L0001181	492473.43	3661376.13	201.38	3.50	0.01613	14.84		6.90	3.25
	L0001182	492483.39	3661365.13	200.94	3.50	0.01613	14.84		6.90	3.25
	L0001183	492493.36	3661354.14	201.07	3.50	0.01613	14.84		6.90	3.25
	L0001184	492503.33	3661343.15	201.38	3.50	0.01613	14.84		6.90	3.25
	L0001185	492513.29	3661332.15	201.22	3.50	0.01613	14.84		6.90	3.25
	L0001186	492523.26	3661321.16	201.41	3.50	0.01613	14.84		6.90	3.25
	L0001187	492533.23	3661310.17	201.48	3.50	0.01613	14.84		6.90	3.25
	L0001188	492543.20	3661299.17	201.40	3.50	0.01613	14.84		6.90	3.25
	L0001189	492553.16	3661288.18	201.61	3.50	0.01613	14.84		6.90	3.25
	L0001190	492563.13	3661277.19	201.31	3.50	0.01613	14.84		6.90	3.25
	L0001191	492573.10	3661266.19	201.22	3.50	0.01613	14.84		6.90	3.25
	L0001192	492583.06	3661255.20	201.34	3.50	0.01613	14.84		6.90	3.25
	L0001193	492593.03	3661244.21	200.94	3.50	0.01613	14.84		6.90	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N6	L0001194	492603.00	3661233.21	201.10	3.50	0.01613	14.84		6.90	3.25
	L0001195	492612.97	3661222.22	200.80	3.50	0.01613	14.84		6.90	3.25
	L0001196	492622.93	3661211.22	200.57	3.50	0.01613	14.84		6.90	3.25
	L0001197	492632.90	3661200.23	201.05	3.50	0.01613	14.84		6.90	3.25
	L0001198	492642.87	3661189.24	200.24	3.50	0.01613	14.84		6.90	3.25
	L0001199	492652.83	3661178.24	200.27	3.50	0.01613	14.84		6.90	3.25
	L0001200	492662.77	3661167.22	200.40	3.50	0.01613	14.84		6.90	3.25
	L0001201	492672.69	3661156.18	199.73	3.50	0.01613	14.84		6.90	3.25
	L0001202	492682.61	3661145.15	200.60	3.50	0.01613	14.84		6.90	3.25
	L0001203	492692.53	3661134.11	200.35	3.50	0.01613	14.84		6.90	3.25
	L0001204	492702.45	3661123.08	199.24	3.50	0.01613	14.84		6.90	3.25
	L0001205	492712.37	3661112.04	200.73	3.50	0.01613	14.84		6.90	3.25
	L0001206	492722.29	3661101.00	199.73	3.50	0.01613	14.84		6.90	3.25
	L0001207	492732.21	3661089.97	199.64	3.50	0.01613	14.84		6.90	3.25
	L0001208	492742.13	3661078.93	200.27	3.50	0.01613	14.84		6.90	3.25
	L0001209	492752.05	3661067.90	198.73	3.50	0.01613	14.84		6.90	3.25
	L0001210	492761.97	3661056.86	199.83	3.50	0.01613	14.84		6.90	3.25
	L0001211	492771.89	3661045.82	199.80	3.50	0.01613	14.84		6.90	3.25
	L0001212	492781.81	3661034.79	198.37	3.50	0.01613	14.84		6.90	3.25
	L0001213	492791.73	3661023.75	199.66	3.50	0.01613	14.84		6.90	3.25
	L0001214	492801.65	3661012.72	199.01	3.50	0.01613	14.84		6.90	3.25
	L0001215	492811.57	3661001.68	198.62	3.50	0.01613	14.84		6.90	3.25
	L0001216	492821.49	3660990.64	199.23	3.50	0.01613	14.84		6.90	3.25
	L0001217	492831.41	3660979.61	197.93	3.50	0.01613	14.84		6.90	3.25
	L0001218	492841.33	3660968.57	198.24	3.50	0.01613	14.84		6.90	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N6	L0001219	492850.56	3660956.95	198.03	3.50	0.01613	14.84		6.90	3.25
	L0001220	492859.80	3660945.34	196.52	3.50	0.01613	14.84		6.90	3.25
	L0001221	492869.04	3660933.73	196.96	3.50	0.01613	14.84		6.90	3.25
	L0001222	492878.27	3660922.11	196.35	3.50	0.01613	14.84		6.90	3.25
	L0001223	492887.51	3660910.50	195.44	3.50	0.01613	14.84		6.90	3.25
	L0001224	492896.75	3660898.88	195.83	3.50	0.01613	14.84		6.90	3.25
	L0001225	492905.98	3660887.27	194.79	3.50	0.01613	14.84		6.90	3.25
	L0001226	492915.22	3660875.66	194.58	3.50	0.01613	14.84		6.90	3.25
	L0001227	492924.46	3660864.04	194.61	3.50	0.01613	14.84		6.90	3.25
	L0001228	492933.69	3660852.43	193.09	3.50	0.01613	14.84		6.90	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S5	L0001229	492269.16	3661539.85	195.30	1.55	0.01493	13.92		6.48	1.45
	L0001230	492278.35	3661529.40	195.93	1.55	0.01493	13.92		6.48	1.45
	L0001231	492287.55	3661518.94	197.94	1.55	0.01493	13.92		6.48	1.45
	L0001232	492296.75	3661508.49	199.59	1.55	0.01493	13.92		6.48	1.45
	L0001233	492305.94	3661498.03	201.65	1.55	0.01493	13.92		6.48	1.45
	L0001234	492315.14	3661487.57	201.72	1.55	0.01493	13.92		6.48	1.45
	L0001235	492324.33	3661477.12	201.73	1.55	0.01493	13.92		6.48	1.45
	L0001236	492333.53	3661466.66	201.86	1.55	0.01493	13.92		6.48	1.45
	L0001237	492342.72	3661456.20	201.94	1.55	0.01493	13.92		6.48	1.45
	L0001238	492351.92	3661445.75	201.97	1.55	0.01493	13.92		6.48	1.45
	L0001239	492361.12	3661435.29	202.07	1.55	0.01493	13.92		6.48	1.45
	L0001240	492370.31	3661424.83	202.09	1.55	0.01493	13.92		6.48	1.45
	L0001241	492379.51	3661414.38	202.12	1.55	0.01493	13.92		6.48	1.45

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S5	L0001242	492388.70	3661403.92	202.19	1.55	0.01493	13.92		6.48	1.45
	L0001243	492397.91	3661393.48	202.04	1.55	0.01493	13.92		6.48	1.45
	L0001244	492407.13	3661383.04	202.05	1.55	0.01493	13.92		6.48	1.45
	L0001245	492416.35	3661372.61	202.20	1.55	0.01493	13.92		6.48	1.45
	L0001246	492425.57	3661362.17	202.12	1.55	0.01493	13.92		6.48	1.45
	L0001247	492434.79	3661351.74	202.12	1.55	0.01493	13.92		6.48	1.45
	L0001248	492444.01	3661341.30	202.20	1.55	0.01493	13.92		6.48	1.45
	L0001249	492453.23	3661330.86	202.11	1.55	0.01493	13.92		6.48	1.45
	L0001250	492462.45	3661320.43	202.08	1.55	0.01493	13.92		6.48	1.45
	L0001251	492471.67	3661309.99	202.11	1.55	0.01493	13.92		6.48	1.45
	L0001252	492480.89	3661299.56	202.10	1.55	0.01493	13.92		6.48	1.45
	L0001253	492490.11	3661289.12	202.03	1.55	0.01493	13.92		6.48	1.45
	L0001254	492499.33	3661278.69	202.11	1.55	0.01493	13.92		6.48	1.45
	L0001255	492508.55	3661268.25	202.25	1.55	0.01493	13.92		6.48	1.45
	L0001256	492517.77	3661257.82	201.99	1.55	0.01493	13.92		6.48	1.45
	L0001257	492526.99	3661247.38	201.77	1.55	0.01493	13.92		6.48	1.45
	L0001258	492536.21	3661236.94	201.71	1.55	0.01493	13.92		6.48	1.45
	L0001259	492545.43	3661226.51	201.52	1.55	0.01493	13.92		6.48	1.45
	L0001260	492554.65	3661216.07	201.17	1.55	0.01493	13.92		6.48	1.45
	L0001261	492563.87	3661205.64	200.95	1.55	0.01493	13.92		6.48	1.45
	L0001262	492573.09	3661195.20	201.19	1.55	0.01493	13.92		6.48	1.45
	L0001263	492582.31	3661184.77	200.63	1.55	0.01493	13.92		6.48	1.45
	L0001264	492591.52	3661174.33	200.36	1.55	0.01493	13.92		6.48	1.45
	L0001265	492600.74	3661163.90	200.78	1.55	0.01493	13.92		6.48	1.45
	L0001266	492610.04	3661153.53	200.70	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S5	L0001267	492619.46	3661143.27	200.54	1.55	0.01493	13.92		6.48	1.45
	L0001268	492628.88	3661133.02	200.29	1.55	0.01493	13.92		6.48	1.45
	L0001269	492638.30	3661122.76	200.47	1.55	0.01493	13.92		6.48	1.45
	L0001270	492647.72	3661112.51	200.20	1.55	0.01493	13.92		6.48	1.45
	L0001271	492657.13	3661102.25	199.77	1.55	0.01493	13.92		6.48	1.45
	L0001272	492666.55	3661091.99	199.99	1.55	0.01493	13.92		6.48	1.45
	L0001273	492675.97	3661081.74	199.48	1.55	0.01493	13.92		6.48	1.45
	L0001274	492685.39	3661071.48	199.15	1.55	0.01493	13.92		6.48	1.45
	L0001275	492694.81	3661061.22	199.41	1.55	0.01493	13.92		6.48	1.45
	L0001276	492704.12	3661050.87	198.77	1.55	0.01493	13.92		6.48	1.45
	L0001277	492713.31	3661040.41	198.52	1.55	0.01493	13.92		6.48	1.45
	L0001278	492722.49	3661029.94	198.77	1.55	0.01493	13.92		6.48	1.45
	L0001279	492731.67	3661019.47	198.13	1.55	0.01493	13.92		6.48	1.45
	L0001280	492740.86	3661009.01	197.88	1.55	0.01493	13.92		6.48	1.45
	L0001281	492750.04	3660998.54	198.06	1.55	0.01493	13.92		6.48	1.45
	L0001282	492759.23	3660988.07	197.50	1.55	0.01493	13.92		6.48	1.45
	L0001283	492768.41	3660977.61	197.21	1.55	0.01493	13.92		6.48	1.45
	L0001284	492777.60	3660967.14	197.39	1.55	0.01493	13.92		6.48	1.45
	L0001285	492786.62	3660956.54	197.13	1.55	0.01493	13.92		6.48	1.45
	L0001286	492795.50	3660945.81	196.74	1.55	0.01493	13.92		6.48	1.45
	L0001287	492804.37	3660935.08	196.55	1.55	0.01493	13.92		6.48	1.45
	L0001288	492813.24	3660924.35	196.24	1.55	0.01493	13.92		6.48	1.45
	L0001289	492822.11	3660913.61	195.81	1.55	0.01493	13.92		6.48	1.45
	L0001290	492830.99	3660902.88	195.74	1.55	0.01493	13.92		6.48	1.45
	L0001291	492839.86	3660892.15	195.53	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S5	L0001292	492848.73	3660881.42	195.05	1.55	0.01493	13.92		6.48	1.45
	L0001293	492857.61	3660870.69	194.40	1.55	0.01493	13.92		6.48	1.45
	L0001294	492866.48	3660859.95	194.09	1.55	0.01493	13.92		6.48	1.45
	L0001295	492875.05	3660848.98	193.79	1.55	0.01493	13.92		6.48	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S4	L0001296	492277.49	3661537.78	195.94	1.55	0.01493	13.92		6.48	1.45
	L0001297	492286.94	3661527.56	196.53	1.55	0.01493	13.92		6.48	1.45
	L0001298	492296.40	3661517.34	197.92	1.55	0.01493	13.92		6.48	1.45
	L0001299	492305.86	3661507.12	199.75	1.55	0.01493	13.92		6.48	1.45
	L0001300	492315.31	3661496.89	201.79	1.55	0.01493	13.92		6.48	1.45
	L0001301	492324.77	3661486.67	201.75	1.55	0.01493	13.92		6.48	1.45
	L0001302	492334.23	3661476.45	201.85	1.55	0.01493	13.92		6.48	1.45
	L0001303	492343.68	3661466.23	201.98	1.55	0.01493	13.92		6.48	1.45
	L0001304	492353.14	3661456.01	201.97	1.55	0.01493	13.92		6.48	1.45
	L0001305	492362.60	3661445.79	202.06	1.55	0.01493	13.92		6.48	1.45
	L0001306	492372.05	3661435.57	202.14	1.55	0.01493	13.92		6.48	1.45
	L0001307	492381.51	3661425.34	202.13	1.55	0.01493	13.92		6.48	1.45
	L0001308	492390.96	3661415.12	202.21	1.55	0.01493	13.92		6.48	1.45
	L0001309	492400.42	3661404.90	202.24	1.55	0.01493	13.92		6.48	1.45
	L0001310	492409.82	3661394.63	202.18	1.55	0.01493	13.92		6.48	1.45
	L0001311	492419.14	3661384.28	202.27	1.55	0.01493	13.92		6.48	1.45
	L0001312	492428.46	3661373.94	202.28	1.55	0.01493	13.92		6.48	1.45
	L0001313	492437.78	3661363.59	202.23	1.55	0.01493	13.92		6.48	1.45
	L0001314	492447.10	3661353.25	202.25	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S4	L0001315	492456.42	3661342.90	202.25	1.55	0.01493	13.92		6.48	1.45
	L0001316	492465.74	3661332.55	202.19	1.55	0.01493	13.92		6.48	1.45
	L0001317	492475.06	3661322.21	202.21	1.55	0.01493	13.92		6.48	1.45
	L0001318	492484.38	3661311.86	202.37	1.55	0.01493	13.92		6.48	1.45
	L0001319	492493.70	3661301.52	202.32	1.55	0.01493	13.92		6.48	1.45
	L0001320	492503.02	3661291.17	202.19	1.55	0.01493	13.92		6.48	1.45
	L0001321	492512.34	3661280.83	202.35	1.55	0.01493	13.92		6.48	1.45
	L0001322	492521.66	3661270.48	202.24	1.55	0.01493	13.92		6.48	1.45
	L0001323	492530.98	3661260.13	201.94	1.55	0.01493	13.92		6.48	1.45
	L0001324	492540.30	3661249.79	201.91	1.55	0.01493	13.92		6.48	1.45
	L0001325	492549.62	3661239.44	201.74	1.55	0.01493	13.92		6.48	1.45
	L0001326	492558.94	3661229.10	201.57	1.55	0.01493	13.92		6.48	1.45
	L0001327	492568.26	3661218.75	201.54	1.55	0.01493	13.92		6.48	1.45
	L0001328	492577.58	3661208.41	201.38	1.55	0.01493	13.92		6.48	1.45
	L0001329	492586.90	3661198.06	201.25	1.55	0.01493	13.92		6.48	1.45
	L0001330	492596.22	3661187.71	201.22	1.55	0.01493	13.92		6.48	1.45
	L0001331	492605.54	3661177.37	200.99	1.55	0.01493	13.92		6.48	1.45
	L0001332	492614.87	3661167.02	200.84	1.55	0.01493	13.92		6.48	1.45
	L0001333	492624.19	3661156.68	200.81	1.55	0.01493	13.92		6.48	1.45
	L0001334	492633.49	3661146.32	200.50	1.55	0.01493	13.92		6.48	1.45
	L0001335	492642.78	3661135.95	200.36	1.55	0.01493	13.92		6.48	1.45
	L0001336	492652.08	3661125.58	200.28	1.55	0.01493	13.92		6.48	1.45
	L0001337	492661.37	3661115.21	199.97	1.55	0.01493	13.92		6.48	1.45
	L0001338	492670.67	3661104.84	199.82	1.55	0.01493	13.92		6.48	1.45
	L0001339	492679.96	3661094.47	199.68	1.55	0.01493	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S4	L0001340	492689.26	3661084.11	199.37	1.55	0.01493	13.92		6.48	1.45
	L0001341	492698.55	3661073.74	199.21	1.55	0.01493	13.92		6.48	1.45
	L0001342	492707.85	3661063.37	199.02	1.55	0.01493	13.92		6.48	1.45
	L0001343	492717.14	3661053.00	198.74	1.55	0.01493	13.92		6.48	1.45
	L0001344	492726.44	3661042.63	198.56	1.55	0.01493	13.92		6.48	1.45
	L0001345	492735.73	3661032.26	198.33	1.55	0.01493	13.92		6.48	1.45
	L0001346	492745.03	3661021.89	198.06	1.55	0.01493	13.92		6.48	1.45
	L0001347	492754.32	3661011.53	197.84	1.55	0.01493	13.92		6.48	1.45
	L0001348	492763.62	3661001.16	197.60	1.55	0.01493	13.92		6.48	1.45
	L0001349	492772.91	3660990.79	197.33	1.55	0.01493	13.92		6.48	1.45
	L0001350	492782.21	3660980.42	197.02	1.55	0.01493	13.92		6.48	1.45
	L0001351	492791.50	3660970.05	196.85	1.55	0.01493	13.92		6.48	1.45
	L0001352	492800.80	3660959.68	196.57	1.55	0.01493	13.92		6.48	1.45
	L0001353	492810.09	3660949.31	196.13	1.55	0.01493	13.92		6.48	1.45
	L0001354	492819.39	3660938.95	195.92	1.55	0.01493	13.92		6.48	1.45
	L0001355	492828.25	3660928.21	195.60	1.55	0.01493	13.92		6.48	1.45
	L0001356	492836.91	3660917.31	195.18	1.55	0.01493	13.92		6.48	1.45
	L0001357	492845.58	3660906.41	195.05	1.55	0.01493	13.92		6.48	1.45
	L0001358	492854.24	3660895.51	194.68	1.55	0.01493	13.92		6.48	1.45
	L0001359	492862.91	3660884.61	194.19	1.55	0.01493	13.92		6.48	1.45
	L0001360	492871.57	3660873.71	193.98	1.55	0.01493	13.92		6.48	1.45
	L0001361	492880.23	3660862.81	193.58	1.55	0.01493	13.92		6.48	1.45
	L0001362	492888.90	3660851.91	193.13	1.55	0.01493	13.92		6.48	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S6	L0001497	492258.26	3661540.56	194.69	3.50	0.01587	14.84		6.90	3.25
	L0001498	492268.29	3661529.63	195.51	3.50	0.01587	14.84		6.90	3.25
	L0001499	492278.32	3661518.69	197.19	3.50	0.01587	14.84		6.90	3.25
	L0001500	492288.36	3661507.76	199.83	3.50	0.01587	14.84		6.90	3.25
	L0001501	492298.39	3661496.82	201.42	3.50	0.01587	14.84		6.90	3.25
	L0001502	492308.42	3661485.89	201.29	3.50	0.01587	14.84		6.90	3.25
	L0001503	492318.45	3661474.96	201.66	3.50	0.01587	14.84		6.90	3.25
	L0001504	492328.49	3661464.02	201.65	3.50	0.01587	14.84		6.90	3.25
	L0001505	492338.48	3661453.06	201.82	3.50	0.01587	14.84		6.90	3.25
	L0001506	492348.36	3661441.98	201.94	3.50	0.01587	14.84		6.90	3.25
	L0001507	492358.24	3661430.91	201.92	3.50	0.01587	14.84		6.90	3.25
	L0001508	492368.11	3661419.83	202.05	3.50	0.01587	14.84		6.90	3.25
	L0001509	492377.99	3661408.76	202.10	3.50	0.01587	14.84		6.90	3.25
	L0001510	492387.86	3661397.68	202.06	3.50	0.01587	14.84		6.90	3.25
	L0001511	492397.74	3661386.61	201.92	3.50	0.01587	14.84		6.90	3.25
	L0001512	492407.62	3661375.53	202.00	3.50	0.01587	14.84		6.90	3.25
	L0001513	492417.49	3661364.46	202.09	3.50	0.01587	14.84		6.90	3.25
	L0001514	492427.37	3661353.38	202.03	3.50	0.01587	14.84		6.90	3.25
	L0001515	492437.25	3661342.31	202.07	3.50	0.01587	14.84		6.90	3.25
	L0001516	492447.12	3661331.23	202.07	3.50	0.01587	14.84		6.90	3.25
	L0001517	492457.00	3661320.15	202.02	3.50	0.01587	14.84		6.90	3.25
	L0001518	492466.87	3661309.08	202.03	3.50	0.01587	14.84		6.90	3.25
	L0001519	492476.75	3661298.00	202.02	3.50	0.01587	14.84		6.90	3.25
	L0001520	492486.63	3661286.93	201.95	3.50	0.01587	14.84		6.90	3.25
	L0001521	492496.50	3661275.85	202.13	3.50	0.01587	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S6	L0001522	492506.38	3661264.78	202.27	3.50	0.01587	14.84		6.90	3.25
	L0001523	492516.26	3661253.70	201.96	3.50	0.01587	14.84		6.90	3.25
	L0001524	492526.13	3661242.63	201.73	3.50	0.01587	14.84		6.90	3.25
	L0001525	492536.01	3661231.55	201.64	3.50	0.01587	14.84		6.90	3.25
	L0001526	492545.89	3661220.48	201.37	3.50	0.01587	14.84		6.90	3.25
	L0001527	492555.76	3661209.40	200.80	3.50	0.01587	14.84		6.90	3.25
	L0001528	492565.64	3661198.33	200.77	3.50	0.01587	14.84		6.90	3.25
	L0001529	492575.51	3661187.25	200.73	3.50	0.01587	14.84		6.90	3.25
	L0001530	492585.39	3661176.18	200.00	3.50	0.01587	14.84		6.90	3.25
	L0001531	492595.27	3661165.10	200.31	3.50	0.01587	14.84		6.90	3.25
	L0001532	492605.14	3661154.03	200.69	3.50	0.01587	14.84		6.90	3.25
	L0001533	492615.02	3661142.95	200.57	3.50	0.01587	14.84		6.90	3.25
	L0001534	492624.90	3661131.88	200.25	3.50	0.01587	14.84		6.90	3.25
	L0001535	492634.82	3661120.84	200.62	3.50	0.01587	14.84		6.90	3.25
	L0001536	492644.73	3661109.80	200.39	3.50	0.01587	14.84		6.90	3.25
	L0001537	492654.64	3661098.76	199.70	3.50	0.01587	14.84		6.90	3.25
	L0001538	492664.56	3661087.72	200.28	3.50	0.01587	14.84		6.90	3.25
	L0001539	492674.47	3661076.68	199.57	3.50	0.01587	14.84		6.90	3.25
	L0001540	492684.22	3661065.48	199.28	3.50	0.01587	14.84		6.90	3.25
	L0001541	492693.77	3661054.13	199.87	3.50	0.01587	14.84		6.90	3.25
	L0001542	492703.32	3661042.78	198.58	3.50	0.01587	14.84		6.90	3.25
	L0001543	492712.88	3661031.42	199.17	3.50	0.01587	14.84		6.90	3.25
	L0001544	492722.43	3661020.07	199.24	3.50	0.01587	14.84		6.90	3.25
	L0001545	492731.99	3661008.71	197.92	3.50	0.01587	14.84		6.90	3.25
	L0001546	492741.54	3660997.36	198.94	3.50	0.01587	14.84		6.90	3.25

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15S6	L0001547	492751.10	3660986.01	198.34	3.50	0.01587	14.84		6.90	3.25
	L0001548	492760.65	3660974.65	197.32	3.50	0.01587	14.84		6.90	3.25
	L0001549	492770.21	3660963.30	198.60	3.50	0.01587	14.84		6.90	3.25
	L0001550	492779.76	3660951.94	197.66	3.50	0.01587	14.84		6.90	3.25
	L0001551	492789.32	3660940.59	197.71	3.50	0.01587	14.84		6.90	3.25
	L0001552	492798.87	3660929.24	197.89	3.50	0.01587	14.84		6.90	3.25
	L0001553	492808.42	3660917.88	196.61	3.50	0.01587	14.84		6.90	3.25
	L0001554	492817.98	3660906.53	197.13	3.50	0.01587	14.84		6.90	3.25
	L0001555	492827.53	3660895.17	196.89	3.50	0.01587	14.84		6.90	3.25
	L0001556	492837.09	3660883.82	195.95	3.50	0.01587	14.84		6.90	3.25
	L0001557	492846.64	3660872.47	196.19	3.50	0.01587	14.84		6.90	3.25
	L0001558	492856.20	3660861.11	194.91	3.50	0.01587	14.84		6.90	3.25
	L0001559	492865.75	3660849.76	194.37	3.50	0.01587	14.84		6.90	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15NR1	L0001560	492389.58	3661537.04	194.70	3.37	0.03333	9.05		4.21	3.13
	L0001561	492385.01	3661544.84	194.75	3.37	0.03333	9.05		4.21	3.13
	L0001562	492379.54	3661551.82	194.85	3.37	0.03333	9.05		4.21	3.13
	L0001563	492372.07	3661556.92	195.01	3.37	0.03333	9.05		4.21	3.13
	L0001564	492364.59	3661562.02	195.22	3.37	0.03333	9.05		4.21	3.13
	L0001565	492357.12	3661567.11	195.73	3.37	0.03333	9.05		4.21	3.13
	L0001566	492349.64	3661572.21	196.30	3.37	0.03333	9.05		4.21	3.13
	L0001567	492342.17	3661577.31	196.96	3.37	0.03333	9.05		4.21	3.13
	L0001568	492334.69	3661582.41	197.25	3.37	0.03333	9.05		4.21	3.13
	L0001569	492327.22	3661587.51	197.50	3.37	0.03333	9.05		4.21	3.13

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15NR1	L0001570	492319.74	3661592.60	197.70	3.37	0.03333	9.05		4.21	3.13
	L0001571	492312.27	3661597.70	197.74	3.37	0.03333	9.05		4.21	3.13
	L0001572	492304.79	3661602.80	198.20	3.37	0.03333	9.05		4.21	3.13
	L0001573	492297.32	3661607.90	198.65	3.37	0.03333	9.05		4.21	3.13
	L0001574	492289.84	3661612.99	199.10	3.37	0.03333	9.05		4.21	3.13
	L0001575	492282.37	3661618.09	199.26	3.37	0.03333	9.05		4.21	3.13
	L0001576	492274.89	3661623.19	199.42	3.37	0.03333	9.05		4.21	3.13
	L0001577	492267.42	3661628.29	199.56	3.37	0.03333	9.05		4.21	3.13
	L0001578	492260.37	3661633.92	199.62	3.37	0.03333	9.05		4.21	3.13
	L0001579	492253.75	3661640.09	199.53	3.37	0.03333	9.05		4.21	3.13
	L0001580	492247.14	3661646.27	199.57	3.37	0.03333	9.05		4.21	3.13
	L0001581	492240.52	3661652.44	199.75	3.37	0.03333	9.05		4.21	3.13
	L0001582	492233.91	3661658.61	199.14	3.37	0.03333	9.05		4.21	3.13
	L0001583	492227.29	3661664.78	198.82	3.37	0.03333	9.05		4.21	3.13
	L0001584	492220.67	3661670.95	198.97	3.37	0.03333	9.05		4.21	3.13
	L0001585	492214.06	3661677.12	199.60	3.37	0.03333	9.05		4.21	3.13
	L0001586	492207.44	3661683.30	200.09	3.37	0.03333	9.05		4.21	3.13
	L0001587	492200.82	3661689.47	199.08	3.37	0.03333	9.05		4.21	3.13
	L0001588	492194.21	3661695.64	198.18	3.37	0.03333	9.05		4.21	3.13
	L0001589	492187.59	3661701.81	197.39	3.37	0.03333	9.05		4.21	3.13

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR1	L0001590	492031.20	3661614.16	193.71	3.50	0.01887	9.05		4.21	3.25
	L0001591	492032.65	3661623.09	193.78	3.50	0.01887	9.05		4.21	3.25
	L0001592	492034.10	3661632.02	193.98	3.50	0.01887	9.05		4.21	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR1	L0001593	492035.55	3661640.95	194.16	3.50	0.01887	9.05		4.21	3.25
	L0001594	492037.00	3661649.88	194.33	3.50	0.01887	9.05		4.21	3.25
	L0001595	492038.45	3661658.81	194.53	3.50	0.01887	9.05		4.21	3.25
	L0001596	492038.15	3661667.80	194.74	3.50	0.01887	9.05		4.21	3.25
	L0001597	492037.25	3661676.80	194.95	3.50	0.01887	9.05		4.21	3.25
	L0001598	492036.36	3661685.81	195.17	3.50	0.01887	9.05		4.21	3.25
	L0001599	492035.47	3661694.81	195.41	3.50	0.01887	9.05		4.21	3.25
	L0001600	492034.58	3661703.81	195.62	3.50	0.01887	9.05		4.21	3.25
	L0001601	492033.69	3661712.82	195.80	3.50	0.01887	9.05		4.21	3.25
	L0001602	492032.80	3661721.82	196.16	3.50	0.01887	9.05		4.21	3.25
	L0001603	492029.61	3661730.06	196.31	3.50	0.01887	9.05		4.21	3.25
	L0001604	492024.91	3661737.79	196.54	3.50	0.01887	9.05		4.21	3.25
	L0001605	492020.21	3661745.52	196.70	3.50	0.01887	9.05		4.21	3.25
	L0001606	492015.50	3661753.25	197.01	3.50	0.01887	9.05		4.21	3.25
	L0001607	492010.80	3661760.98	197.23	3.50	0.01887	9.05		4.21	3.25
	L0001608	492006.10	3661768.71	197.35	3.50	0.01887	9.05		4.21	3.25
	L0001609	492001.40	3661776.44	197.55	3.50	0.01887	9.05		4.21	3.25
	L0001610	491996.70	3661784.17	198.11	3.50	0.01887	9.05		4.21	3.25
	L0001611	491991.99	3661791.90	198.71	3.50	0.01887	9.05		4.21	3.25
	L0001612	491987.29	3661799.63	199.35	3.50	0.01887	9.05		4.21	3.25
	L0001613	491982.59	3661807.36	199.99	3.50	0.01887	9.05		4.21	3.25
	L0001614	491977.89	3661815.09	200.02	3.50	0.01887	9.05		4.21	3.25
	L0001615	491973.19	3661822.82	199.98	3.50	0.01887	9.05		4.21	3.25
	L0001616	491968.48	3661830.55	200.00	3.50	0.01887	9.05		4.21	3.25
	L0001617	491963.78	3661838.28	200.07	3.50	0.01887	9.05		4.21	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR1	L0001618	491958.87	3661845.87	200.13	3.50	0.01887	9.05		4.21	3.25
	L0001619	491953.39	3661853.07	200.19	3.50	0.01887	9.05		4.21	3.25
	L0001620	491947.90	3661860.26	200.54	3.50	0.01887	9.05		4.21	3.25
	L0001621	491942.41	3661867.45	201.11	3.50	0.01887	9.05		4.21	3.25
	L0001622	491936.92	3661874.65	201.40	3.50	0.01887	9.05		4.21	3.25
	L0001623	491931.43	3661881.84	201.44	3.50	0.01887	9.05		4.21	3.25
	L0001624	491925.95	3661889.04	201.25	3.50	0.01887	9.05		4.21	3.25
	L0001625	491920.46	3661896.23	201.23	3.50	0.01887	9.05		4.21	3.25
	L0001626	491914.97	3661903.42	201.58	3.50	0.01887	9.05		4.21	3.25
	L0001627	491909.48	3661910.62	201.73	3.50	0.01887	9.05		4.21	3.25
	L0001628	491903.99	3661917.81	201.63	3.50	0.01887	9.05		4.21	3.25
	L0001629	491898.51	3661925.00	201.19	3.50	0.01887	9.05		4.21	3.25
	L0001630	491893.02	3661932.20	200.68	3.50	0.01887	9.05		4.21	3.25
	L0001631	491887.53	3661939.39	200.67	3.50	0.01887	9.05		4.21	3.25
	L0001632	491882.04	3661946.59	200.77	3.50	0.01887	9.05		4.21	3.25
	L0001633	491876.56	3661953.78	200.97	3.50	0.01887	9.05		4.21	3.25
	L0001634	491871.07	3661960.97	201.09	3.50	0.01887	9.05		4.21	3.25
	L0001635	491865.58	3661968.17	200.96	3.50	0.01887	9.05		4.21	3.25
	L0001636	491860.09	3661975.36	201.01	3.50	0.01887	9.05		4.21	3.25
	L0001637	491854.60	3661982.55	201.23	3.50	0.01887	9.05		4.21	3.25
	L0001638	491849.12	3661989.75	201.64	3.50	0.01887	9.05		4.21	3.25
	L0001639	491843.63	3661996.94	201.61	3.50	0.01887	9.05		4.21	3.25
	L0001640	491838.14	3662004.13	201.59	3.50	0.01887	9.05		4.21	3.25
	L0001641	491832.65	3662011.33	201.75	3.50	0.01887	9.05		4.21	3.25
	L0001642	491827.16	3662018.52	202.10	3.50	0.01887	9.05		4.21	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
15NR2	L0001643	492405.39	3661497.25	195.31	3.50	0.04545	16.00		7.44	3.25
	L0001644	492415.13	3661484.56	195.66	3.50	0.04545	16.00		7.44	3.25
	L0001645	492424.88	3661471.87	195.71	3.50	0.04545	16.00		7.44	3.25
	L0001646	492434.62	3661459.18	196.59	3.50	0.04545	16.00		7.44	3.25
	L0001647	492444.36	3661446.49	196.55	3.50	0.04545	16.00		7.44	3.25
	L0001648	492454.10	3661433.79	197.66	3.50	0.04545	16.00		7.44	3.25
	L0001649	492463.85	3661421.10	198.39	3.50	0.04545	16.00		7.44	3.25
	L0001650	492473.59	3661408.41	198.46	3.50	0.04545	16.00		7.44	3.25
	L0001651	492483.33	3661395.72	199.97	3.50	0.04545	16.00		7.44	3.25
	L0001652	492493.07	3661383.03	199.81	3.50	0.04545	16.00		7.44	3.25
	L0001653	492502.82	3661370.33	200.46	3.50	0.04545	16.00		7.44	3.25
	L0001654	492512.42	3661357.54	201.22	3.50	0.04545	16.00		7.44	3.25
	L0001655	492522.00	3661344.72	200.35	3.50	0.04545	16.00		7.44	3.25
	L0001656	492531.58	3661331.90	202.07	3.50	0.04545	16.00		7.44	3.25
	L0001657	492541.15	3661319.09	201.81	3.50	0.04545	16.00		7.44	3.25
	L0001658	492550.73	3661306.27	201.72	3.50	0.04545	16.00		7.44	3.25
	L0001659	492560.31	3661293.46	202.24	3.50	0.04545	16.00		7.44	3.25
	L0001660	492569.89	3661280.64	201.13	3.50	0.04545	16.00		7.44	3.25
	L0001661	492579.47	3661267.83	201.81	3.50	0.04545	16.00		7.44	3.25
	L0001662	492589.13	3661255.07	201.33	3.50	0.04545	16.00		7.44	3.25
	L0001663	492598.80	3661242.32	200.82	3.50	0.04545	16.00		7.44	3.25
	L0001664	492608.47	3661229.57	201.21	3.50	0.04545	16.00		7.44	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR2	L0001665	492193.63	3661546.35	193.11	3.50	0.02000	9.05		4.21	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR2	L0001666	492200.27	3661540.20	193.13	3.50	0.02000	9.05		4.21	3.25
	L0001667	492206.90	3661534.05	193.22	3.50	0.02000	9.05		4.21	3.25
	L0001668	492213.54	3661527.90	193.40	3.50	0.02000	9.05		4.21	3.25
	L0001669	492220.17	3661521.75	193.74	3.50	0.02000	9.05		4.21	3.25
	L0001670	492226.81	3661515.59	194.28	3.50	0.02000	9.05		4.21	3.25
	L0001671	492233.44	3661509.44	195.03	3.50	0.02000	9.05		4.21	3.25
	L0001672	492240.07	3661503.29	195.71	3.50	0.02000	9.05		4.21	3.25
	L0001673	492246.71	3661497.14	196.10	3.50	0.02000	9.05		4.21	3.25
	L0001674	492253.34	3661490.99	196.21	3.50	0.02000	9.05		4.21	3.25
	L0001675	492259.98	3661484.83	196.75	3.50	0.02000	9.05		4.21	3.25
	L0001676	492266.61	3661478.68	197.40	3.50	0.02000	9.05		4.21	3.25
	L0001677	492273.25	3661472.53	197.63	3.50	0.02000	9.05		4.21	3.25
	L0001678	492279.88	3661466.38	197.31	3.50	0.02000	9.05		4.21	3.25
	L0001679	492286.52	3661460.22	196.33	3.50	0.02000	9.05		4.21	3.25
	L0001680	492293.15	3661454.07	196.24	3.50	0.02000	9.05		4.21	3.25
	L0001681	492299.79	3661447.92	196.73	3.50	0.02000	9.05		4.21	3.25
	L0001682	492306.42	3661441.77	197.53	3.50	0.02000	9.05		4.21	3.25
	L0001683	492313.06	3661435.62	198.64	3.50	0.02000	9.05		4.21	3.25
	L0001684	492319.69	3661429.46	198.99	3.50	0.02000	9.05		4.21	3.25
	L0001685	492326.32	3661423.31	199.28	3.50	0.02000	9.05		4.21	3.25
	L0001686	492332.96	3661417.16	199.68	3.50	0.02000	9.05		4.21	3.25
	L0001687	492339.59	3661411.01	200.17	3.50	0.02000	9.05		4.21	3.25
	L0001688	492346.23	3661404.86	200.23	3.50	0.02000	9.05		4.21	3.25
	L0001689	492352.86	3661398.70	200.19	3.50	0.02000	9.05		4.21	3.25
	L0001690	492359.50	3661392.55	200.82	3.50	0.02000	9.05		4.21	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15SR2	L0001691	492366.13	3661386.40	202.06	3.50	0.02000	9.05		4.21	3.25
	L0001692	492372.77	3661380.25	201.99	3.50	0.02000	9.05		4.21	3.25
	L0001693	492379.40	3661374.10	201.71	3.50	0.02000	9.05		4.21	3.25
	L0001694	492386.04	3661367.94	201.40	3.50	0.02000	9.05		4.21	3.25
	L0001695	492392.68	3661361.80	201.86	3.50	0.02000	9.05		4.21	3.25
	L0001696	492399.33	3661355.66	201.98	3.50	0.02000	9.05		4.21	3.25
	L0001697	492405.98	3661349.53	201.96	3.50	0.02000	9.05		4.21	3.25
	L0001698	492412.62	3661343.39	201.75	3.50	0.02000	9.05		4.21	3.25
	L0001699	492419.27	3661337.25	201.38	3.50	0.02000	9.05		4.21	3.25
	L0001700	492425.92	3661331.11	201.33	3.50	0.02000	9.05		4.21	3.25
	L0001701	492432.56	3661324.97	201.40	3.50	0.02000	9.05		4.21	3.25
	L0001702	492439.21	3661318.83	201.60	3.50	0.02000	9.05		4.21	3.25
	L0001703	492445.86	3661312.70	201.81	3.50	0.02000	9.05		4.21	3.25
	L0001704	492452.51	3661306.56	201.84	3.50	0.02000	9.05		4.21	3.25
	L0001705	492459.15	3661300.42	201.85	3.50	0.02000	9.05		4.21	3.25
	L0001706	492465.80	3661294.28	201.85	3.50	0.02000	9.05		4.21	3.25
	L0001707	492472.45	3661288.14	201.84	3.50	0.02000	9.05		4.21	3.25
	L0001708	492479.10	3661282.00	201.84	3.50	0.02000	9.05		4.21	3.25
	L0001709	492485.74	3661275.87	202.07	3.50	0.02000	9.05		4.21	3.25
	L0001710	492492.39	3661269.73	202.27	3.50	0.02000	9.05		4.21	3.25
	L0001711	492498.82	3661263.36	202.39	3.50	0.02000	9.05		4.21	3.25
	L0001712	492505.07	3661256.82	202.33	3.50	0.02000	9.05		4.21	3.25
	L0001713	492511.32	3661250.28	202.06	3.50	0.02000	9.05		4.21	3.25
	L0001714	492517.57	3661243.74	201.76	3.50	0.02000	9.05		4.21	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
FEL1	L0001802	492299.75	3662348.52	203.24	0.00	0.03448	13.92		6.48	3.25
	L0001803	492296.67	3662334.95	202.86	0.00	0.03448	13.92		6.48	3.25
	L0001804	492293.58	3662321.37	202.47	0.00	0.03448	13.92		6.48	3.25
	L0001805	492290.49	3662307.79	202.09	0.00	0.03448	13.92		6.48	3.25
	L0001806	492287.40	3662294.21	201.70	0.00	0.03448	13.92		6.48	3.25
	L0001807	492284.31	3662280.63	201.31	0.00	0.03448	13.92		6.48	3.25
	L0001808	492281.22	3662267.06	200.93	0.00	0.03448	13.92		6.48	3.25
	L0001809	492278.13	3662253.48	200.67	0.00	0.03448	13.92		6.48	3.25
	L0001810	492275.05	3662239.90	200.36	0.00	0.03448	13.92		6.48	3.25
	L0001811	492271.96	3662226.32	200.12	0.00	0.03448	13.92		6.48	3.25
	L0001812	492268.87	3662212.74	199.81	0.00	0.03448	13.92		6.48	3.25
	L0001813	492265.78	3662199.17	199.45	0.00	0.03448	13.92		6.48	3.25
	L0001814	492262.69	3662185.59	199.11	0.00	0.03448	13.92		6.48	3.25
	L0001815	492259.60	3662172.01	198.93	0.00	0.03448	13.92		6.48	3.25
	L0001816	492256.51	3662158.43	198.80	0.00	0.03448	13.92		6.48	3.25
	L0001817	492253.43	3662144.86	198.73	0.00	0.03448	13.92		6.48	3.25
	L0001818	492250.34	3662131.28	198.64	0.00	0.03448	13.92		6.48	3.25
	L0001819	492247.25	3662117.70	198.49	0.00	0.03448	13.92		6.48	3.25
	L0001820	492244.16	3662104.12	198.34	0.00	0.03448	13.92		6.48	3.25
	L0001821	492241.07	3662090.54	198.15	0.00	0.03448	13.92		6.48	3.25
	L0001822	492237.98	3662076.97	198.00	0.00	0.03448	13.92		6.48	3.25
	L0001823	492234.89	3662063.39	198.03	0.00	0.03448	13.92		6.48	3.25
	L0001824	492231.80	3662049.81	198.14	0.00	0.03448	13.92		6.48	3.25
	L0001825	492228.72	3662036.23	198.19	0.00	0.03448	13.92		6.48	3.25
	L0001826	492225.63	3662022.65	198.24	0.00	0.03448	13.92		6.48	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
FEL1	L0001827	492222.54	3662009.08	198.17	0.00	0.03448	13.92		6.48	3.25
	L0001828	492219.45	3661995.50	198.15	0.00	0.03448	13.92		6.48	3.25
	L0001829	492216.36	3661981.92	198.05	0.00	0.03448	13.92		6.48	3.25
	L0001830	492213.27	3661968.34	197.79	0.00	0.03448	13.92		6.48	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
FEL2	L0001831	492210.96	3661958.77	197.59	3.37	0.12500	13.92		6.48	3.13
	L0001832	492207.93	3661945.18	197.57	3.37	0.12500	13.92		6.48	3.13
	L0001833	492204.89	3661931.59	197.54	3.37	0.12500	13.92		6.48	3.13
	L0001834	492201.85	3661918.00	197.32	3.37	0.12500	13.92		6.48	3.13
	L0001835	492198.81	3661904.41	197.02	3.37	0.12500	13.92		6.48	3.13
	L0001836	492195.78	3661890.83	196.74	3.37	0.12500	13.92		6.48	3.13
	L0001837	492192.74	3661877.24	196.49	3.37	0.12500	13.92		6.48	3.13
	L0001838	492189.70	3661863.65	196.24	3.37	0.12500	13.92		6.48	3.13

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
FEL3	L0001842	492188.22	3661856.63	196.13	3.50	0.04762	13.92		6.48	3.25
	L0001843	492185.47	3661842.98	195.91	3.50	0.04762	13.92		6.48	3.25
	L0001844	492182.73	3661829.33	195.78	3.50	0.04762	13.92		6.48	3.25
	L0001845	492179.98	3661815.67	195.64	3.50	0.04762	13.92		6.48	3.25
	L0001846	492177.24	3661802.02	195.47	3.50	0.04762	13.92		6.48	3.25
	L0001847	492174.50	3661788.37	195.35	3.50	0.04762	13.92		6.48	3.25
	L0001848	492171.75	3661774.72	195.19	3.50	0.04762	13.92		6.48	3.25
	L0001849	492169.01	3661761.07	194.90	3.50	0.04762	13.92		6.48	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
FEL3	L0001850	492166.26	3661747.42	194.58	3.50	0.04762	13.92		6.48	3.25
	L0001851	492163.52	3661733.77	194.42	3.50	0.04762	13.92		6.48	3.25
	L0001852	492160.77	3661720.11	194.22	3.50	0.04762	13.92		6.48	3.25
	L0001853	492158.03	3661706.46	194.18	3.50	0.04762	13.92		6.48	3.25
	L0001854	492155.28	3661692.81	194.61	3.50	0.04762	13.92		6.48	3.25
	L0001855	492152.54	3661679.16	194.87	3.50	0.04762	13.92		6.48	3.25
	L0001856	492149.79	3661665.51	194.70	3.50	0.04762	13.92		6.48	3.25
	L0001857	492147.05	3661651.86	194.05	3.50	0.04762	13.92		6.48	3.25
	L0001858	492144.30	3661638.20	193.69	3.50	0.04762	13.92		6.48	3.25
	L0001859	492141.56	3661624.55	193.34	3.50	0.04762	13.92		6.48	3.25
	L0001860	492138.81	3661610.90	193.19	3.50	0.04762	13.92		6.48	3.25
	L0001861	492136.07	3661597.25	193.03	3.50	0.04762	13.92		6.48	3.25
	L0001862	492133.32	3661583.60	192.85	3.50	0.04762	13.92		6.48	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
MIL1	L0001863	492611.67	3661875.42	197.70	3.50	0.03333	13.01		6.05	3.25
	L0001864	492608.93	3661862.70	197.52	3.50	0.03333	13.01		6.05	3.25
	L0001865	492606.20	3661849.99	197.29	3.50	0.03333	13.01		6.05	3.25
	L0001866	492603.46	3661837.27	197.10	3.50	0.03333	13.01		6.05	3.25
	L0001867	492600.73	3661824.55	196.98	3.50	0.03333	13.01		6.05	3.25
	L0001868	492597.99	3661811.83	196.86	3.50	0.03333	13.01		6.05	3.25
	L0001869	492595.25	3661799.11	196.75	3.50	0.03333	13.01		6.05	3.25
	L0001870	492592.52	3661786.39	196.64	3.50	0.03333	13.01		6.05	3.25
	L0001871	492589.78	3661773.67	196.53	3.50	0.03333	13.01		6.05	3.25
	L0001872	492587.04	3661760.95	196.42	3.50	0.03333	13.01		6.05	3.25

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
MIL1	L0001873	492584.31	3661748.23	196.28	3.50	0.03333	13.01		6.05	3.25
	L0001874	492581.57	3661735.51	196.11	3.50	0.03333	13.01		6.05	3.25
	L0001875	492578.83	3661722.79	195.90	3.50	0.03333	13.01		6.05	3.25
	L0001876	492576.10	3661710.07	195.71	3.50	0.03333	13.01		6.05	3.25
	L0001877	492573.36	3661697.35	195.68	3.50	0.03333	13.01		6.05	3.25
	L0001878	492570.63	3661684.63	195.75	3.50	0.03333	13.01		6.05	3.25
	L0001879	492567.89	3661671.91	195.77	3.50	0.03333	13.01		6.05	3.25
	L0001880	492565.15	3661659.19	195.80	3.50	0.03333	13.01		6.05	3.25
	L0001881	492562.42	3661646.47	195.79	3.50	0.03333	13.01		6.05	3.25
	L0001882	492559.68	3661633.76	195.56	3.50	0.03333	13.01		6.05	3.25
	L0001883	492556.94	3661621.04	195.19	3.50	0.03333	13.01		6.05	3.25
	L0001884	492554.21	3661608.32	195.30	3.50	0.03333	13.01		6.05	3.25
	L0001885	492551.47	3661595.60	195.47	3.50	0.03333	13.01		6.05	3.25
	L0001886	492548.74	3661582.88	195.67	3.50	0.03333	13.01		6.05	3.25
	L0001887	492546.00	3661570.16	195.88	3.50	0.03333	13.01		6.05	3.25
	L0001888	492543.26	3661557.44	196.13	3.50	0.03333	13.01		6.05	3.25
	L0001889	492540.53	3661544.72	196.45	3.50	0.03333	13.01		6.05	3.25
	L0001890	492537.79	3661532.00	196.72	3.50	0.03333	13.01		6.05	3.25
	L0001891	492535.05	3661519.28	196.90	3.50	0.03333	13.01		6.05	3.25
	L0001892	492532.32	3661506.56	197.08	3.50	0.03333	13.01		6.05	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BRO1	L0001916	492231.04	3661963.61	197.33	3.50	0.20000	16.67		7.75	3.25
	L0001917	492247.28	3661959.85	197.14	3.50	0.20000	16.67		7.75	3.25
	L0001918	492263.51	3661956.08	196.89	3.50	0.20000	16.67		7.75	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BRO1	L0001919	492279.75	3661952.31	197.02	3.50	0.20000	16.67		7.75	3.25
	L0001920	492295.99	3661948.55	197.53	3.50	0.20000	16.67		7.75	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
BRO2	L0001921	492321.09	3661942.81	199.01	3.50	0.05556	16.67		7.75	3.25
	L0001922	492337.41	3661939.42	199.79	3.50	0.05556	16.67		7.75	3.25
	L0001923	492353.73	3661936.02	200.57	3.50	0.05556	16.67		7.75	3.25
	L0001924	492370.05	3661932.63	201.27	3.50	0.05556	16.67		7.75	3.25
	L0001925	492386.36	3661929.23	201.71	3.50	0.05556	16.67		7.75	3.25
	L0001926	492402.68	3661925.84	201.79	3.50	0.05556	16.67		7.75	3.25
	L0001927	492419.00	3661922.44	201.72	3.50	0.05556	16.67		7.75	3.25
	L0001928	492435.32	3661919.05	201.24	3.50	0.05556	16.67		7.75	3.25
	L0001929	492451.64	3661915.65	200.66	3.50	0.05556	16.67		7.75	3.25
	L0001930	492467.96	3661912.26	199.96	3.50	0.05556	16.67		7.75	3.25
	L0001931	492484.28	3661908.86	199.54	3.50	0.05556	16.67		7.75	3.25
	L0001932	492500.59	3661905.47	199.12	3.50	0.05556	16.67		7.75	3.25
	L0001933	492516.91	3661902.07	198.69	3.50	0.05556	16.67		7.75	3.25
	L0001934	492533.23	3661898.68	198.38	3.50	0.05556	16.67		7.75	3.25
	L0001935	492549.55	3661895.28	198.18	3.50	0.05556	16.67		7.75	3.25
	L0001936	492565.87	3661891.89	197.97	3.50	0.05556	16.67		7.75	3.25
	L0001937	492582.19	3661888.49	197.83	3.50	0.05556	16.67		7.75	3.25
	L0001938	492598.51	3661885.10	197.73	3.50	0.05556	16.67		7.75	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]

Source Pathway - Source Inputs

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
WCI1	L0001943	492147.68	3661573.09	193.18	3.50	0.50000	24.29		11.30	3.25
	L0001944	492171.44	3661568.01	193.81	3.50	0.50000	24.29		11.30	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
GAM1	L0001960	492041.82	3661593.72	193.59	3.50	0.25000	24.29		11.30	3.25
	L0001961	492065.68	3661589.19	193.31	3.50	0.25000	24.29		11.30	3.25
	L0001962	492089.54	3661584.66	193.03	3.50	0.25000	24.29		11.30	3.25
	L0001963	492113.41	3661580.13	192.83	3.50	0.25000	24.29		11.30	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
WCI2	L0001964	492195.21	3661563.30	194.08	3.50	0.11111	24.29		11.30	3.25
	L0001965	492218.89	3661557.93	193.94	3.50	0.11111	24.29		11.30	3.25
	L0001966	492242.58	3661552.55	194.33	3.50	0.11111	24.29		11.30	3.25
	L0001967	492266.26	3661547.18	194.82	3.50	0.11111	24.29		11.30	3.25
	L0001968	492289.95	3661541.81	196.78	3.50	0.11111	24.29		11.30	3.25
	L0001969	492313.64	3661536.43	194.86	3.50	0.11111	24.29		11.30	3.25
	L0001970	492337.32	3661531.06	195.32	3.50	0.11111	24.29		11.30	3.25
	L0001971	492361.01	3661525.69	195.47	3.50	0.11111	24.29		11.30	3.25
	L0001972	492384.69	3661520.31	195.26	3.50	0.11111	24.29		11.30	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
WCI3	L0001973	492408.96	3661515.41	194.99	3.50	0.20000	24.29		11.30	3.25
	L0001974	492432.66	3661510.08	195.19	3.50	0.20000	24.29		11.30	3.25
	L0001975	492456.35	3661504.74	195.60	3.50	0.20000	24.29		11.30	3.25

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
WCI3	L0001976	492480.05	3661499.41	196.22	3.50	0.20000	24.29		11.30	3.25
	L0001977	492503.74	3661494.07	196.81	3.50	0.20000	24.29		11.30	3.25

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N1	L0001978	491379.46	3662833.19	222.62	1.55	0.00870	13.92		6.48	1.45
	L0001979	491385.62	3662820.70	222.56	1.55	0.00870	13.92		6.48	1.45
	L0001980	491391.78	3662808.21	222.27	1.55	0.00870	13.92		6.48	1.45
	L0001981	491397.93	3662795.72	222.12	1.55	0.00870	13.92		6.48	1.45
	L0001982	491404.09	3662783.23	222.06	1.55	0.00870	13.92		6.48	1.45
	L0001983	491410.25	3662770.74	222.00	1.55	0.00870	13.92		6.48	1.45
	L0001984	491416.41	3662758.25	221.80	1.55	0.00870	13.92		6.48	1.45
	L0001985	491422.56	3662745.76	221.56	1.55	0.00870	13.92		6.48	1.45
	L0001986	491428.72	3662733.27	221.45	1.55	0.00870	13.92		6.48	1.45
	L0001987	491434.88	3662720.78	221.29	1.55	0.00870	13.92		6.48	1.45
	L0001988	491441.04	3662708.29	221.02	1.55	0.00870	13.92		6.48	1.45
	L0001989	491447.19	3662695.80	220.83	1.55	0.00870	13.92		6.48	1.45
	L0001990	491453.35	3662683.31	220.72	1.55	0.00870	13.92		6.48	1.45
	L0001991	491459.51	3662670.82	220.68	1.55	0.00870	13.92		6.48	1.45
	L0001992	491465.67	3662658.33	220.36	1.55	0.00870	13.92		6.48	1.45
	L0001993	491471.82	3662645.84	220.09	1.55	0.00870	13.92		6.48	1.45
	L0001994	491477.98	3662633.35	219.92	1.55	0.00870	13.92		6.48	1.45
	L0001995	491484.14	3662620.87	219.82	1.55	0.00870	13.92		6.48	1.45
	L0001996	491490.30	3662608.38	219.63	1.55	0.00870	13.92		6.48	1.45
	L0001997	491496.45	3662595.89	219.28	1.55	0.00870	13.92		6.48	1.45
	L0001998	491502.61	3662583.40	219.00	1.55	0.00870	13.92		6.48	1.45

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Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N1	L0001999	491509.14	3662571.10	218.76	1.55	0.00870	13.92		6.48	1.45
	L0002000	491515.84	3662558.90	218.40	1.55	0.00870	13.92		6.48	1.45
	L0002001	491522.54	3662546.69	218.09	1.55	0.00870	13.92		6.48	1.45
	L0002002	491529.25	3662534.48	217.87	1.55	0.00870	13.92		6.48	1.45
	L0002003	491535.95	3662522.28	217.65	1.55	0.00870	13.92		6.48	1.45
	L0002004	491542.65	3662510.07	217.33	1.55	0.00870	13.92		6.48	1.45
	L0002005	491549.35	3662497.87	216.99	1.55	0.00870	13.92		6.48	1.45
	L0002006	491556.05	3662485.66	216.70	1.55	0.00870	13.92		6.48	1.45
	L0002007	491562.76	3662473.45	216.35	1.55	0.00870	13.92		6.48	1.45
	L0002008	491569.46	3662461.25	215.97	1.55	0.00870	13.92		6.48	1.45
	L0002009	491576.16	3662449.04	215.65	1.55	0.00870	13.92		6.48	1.45
	L0002010	491582.86	3662436.84	215.38	1.55	0.00870	13.92		6.48	1.45
	L0002011	491589.92	3662424.84	215.10	1.55	0.00870	13.92		6.48	1.45
	L0002012	491597.32	3662413.04	214.67	1.55	0.00870	13.92		6.48	1.45
	L0002013	491604.72	3662401.25	214.29	1.55	0.00870	13.92		6.48	1.45
	L0002014	491612.11	3662389.45	213.94	1.55	0.00870	13.92		6.48	1.45
	L0002015	491619.51	3662377.65	213.47	1.55	0.00870	13.92		6.48	1.45
	L0002016	491626.91	3662365.85	213.04	1.55	0.00870	13.92		6.48	1.45
	L0002017	491634.31	3662354.06	212.66	1.55	0.00870	13.92		6.48	1.45
	L0002018	491641.71	3662342.26	212.26	1.55	0.00870	13.92		6.48	1.45
	L0002019	491649.10	3662330.46	211.81	1.55	0.00870	13.92		6.48	1.45
	L0002020	491656.50	3662318.67	211.44	1.55	0.00870	13.92		6.48	1.45
	L0002021	491663.92	3662306.88	211.09	1.55	0.00870	13.92		6.48	1.45
	L0002022	491671.60	3662295.26	210.65	1.55	0.00870	13.92		6.48	1.45
	L0002023	491679.27	3662283.65	210.15	1.55	0.00870	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N1	L0002024	491686.94	3662272.03	209.71	1.55	0.00870	13.92		6.48	1.45
	L0002025	491694.62	3662260.41	209.24	1.55	0.00870	13.92		6.48	1.45
	L0002026	491702.29	3662248.79	208.74	1.55	0.00870	13.92		6.48	1.45
	L0002027	491710.01	3662237.20	208.31	1.55	0.00870	13.92		6.48	1.45
	L0002028	491718.04	3662225.82	207.82	1.55	0.00870	13.92		6.48	1.45
	L0002029	491726.08	3662214.45	207.32	1.55	0.00870	13.92		6.48	1.45
	L0002030	491734.11	3662203.08	206.86	1.55	0.00870	13.92		6.48	1.45
	L0002031	491742.14	3662191.70	206.43	1.55	0.00870	13.92		6.48	1.45
	L0002032	491750.17	3662180.33	206.05	1.55	0.00870	13.92		6.48	1.45
	L0002033	491758.21	3662168.95	205.58	1.55	0.00870	13.92		6.48	1.45
	L0002034	491766.24	3662157.58	205.25	1.55	0.00870	13.92		6.48	1.45
	L0002035	491774.27	3662146.20	204.90	1.55	0.00870	13.92		6.48	1.45
	L0002036	491782.30	3662134.83	204.47	1.55	0.00870	13.92		6.48	1.45
	L0002037	491790.34	3662123.45	204.13	1.55	0.00870	13.92		6.48	1.45
	L0002038	491798.37	3662112.08	203.81	1.55	0.00870	13.92		6.48	1.45
	L0002039	491806.55	3662100.82	203.44	1.55	0.00870	13.92		6.48	1.45
	L0002040	491815.30	3662089.98	203.13	1.55	0.00870	13.92		6.48	1.45
	L0002041	491824.04	3662079.15	202.84	1.55	0.00870	13.92		6.48	1.45
	L0002042	491832.79	3662068.31	202.51	1.55	0.00870	13.92		6.48	1.45
	L0002043	491841.53	3662057.47	202.24	1.55	0.00870	13.92		6.48	1.45
	L0002044	491850.27	3662046.63	201.97	1.55	0.00870	13.92		6.48	1.45
	L0002045	491859.02	3662035.80	201.68	1.55	0.00870	13.92		6.48	1.45
	L0002046	491867.76	3662024.96	201.47	1.55	0.00870	13.92		6.48	1.45
	L0002047	491876.50	3662014.12	201.24	1.55	0.00870	13.92		6.48	1.45
	L0002048	491885.25	3662003.28	201.01	1.55	0.00870	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N1	L0002049	491893.99	3661992.45	200.84	1.55	0.00870	13.92		6.48	1.45
	L0002050	491902.73	3661981.61	200.65	1.55	0.00870	13.92		6.48	1.45
	L0002051	491911.48	3661970.77	200.47	1.55	0.00870	13.92		6.48	1.45
	L0002052	491920.22	3661959.93	200.36	1.55	0.00870	13.92		6.48	1.45
	L0002053	491929.11	3661949.22	200.21	1.55	0.00870	13.92		6.48	1.45
	L0002054	491938.29	3661938.75	200.08	1.55	0.00870	13.92		6.48	1.45
	L0002055	491947.46	3661928.27	200.01	1.55	0.00870	13.92		6.48	1.45
	L0002056	491956.63	3661917.79	199.88	1.55	0.00870	13.92		6.48	1.45
	L0002057	491965.81	3661907.32	199.80	1.55	0.00870	13.92		6.48	1.45
	L0002058	491974.98	3661896.84	199.77	1.55	0.00870	13.92		6.48	1.45
	L0002059	491984.15	3661886.36	199.68	1.55	0.00870	13.92		6.48	1.45
	L0002060	491993.33	3661875.89	199.64	1.55	0.00870	13.92		6.48	1.45
	L0002061	492002.50	3661865.41	199.66	1.55	0.00870	13.92		6.48	1.45
	L0002062	492011.67	3661854.94	199.61	1.55	0.00870	13.92		6.48	1.45
	L0002063	492020.85	3661844.46	199.63	1.55	0.00870	13.92		6.48	1.45
	L0002064	492030.02	3661833.98	199.68	1.55	0.00870	13.92		6.48	1.45
	L0002065	492039.19	3661823.51	199.66	1.55	0.00870	13.92		6.48	1.45
	L0002066	492048.45	3661813.11	199.73	1.55	0.00870	13.92		6.48	1.45
	L0002067	492057.77	3661802.76	199.80	1.55	0.00870	13.92		6.48	1.45
	L0002068	492067.09	3661792.42	199.80	1.55	0.00870	13.92		6.48	1.45
	L0002069	492076.41	3661782.07	199.92	1.55	0.00870	13.92		6.48	1.45
	L0002070	492085.73	3661771.73	200.00	1.55	0.00870	13.92		6.48	1.45
	L0002071	492095.05	3661761.38	200.02	1.55	0.00870	13.92		6.48	1.45
	L0002072	492104.37	3661751.03	200.16	1.55	0.00870	13.92		6.48	1.45
	L0002073	492113.69	3661740.69	200.20	1.55	0.00870	13.92		6.48	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N1	L0002074	492123.01	3661730.34	200.20	1.55	0.00870	13.92		6.48	1.45
	L0002075	492132.33	3661720.00	200.35	1.55	0.00870	13.92		6.48	1.45
	L0002076	492141.65	3661709.65	198.09	1.55	0.00870	13.92		6.48	1.45
	L0002077	492150.97	3661699.30	195.63	1.55	0.00870	13.92		6.48	1.45
	L0002078	492160.29	3661688.96	194.21	1.55	0.00870	13.92		6.48	1.45
	L0002079	492169.61	3661678.61	196.65	1.55	0.00870	13.92		6.48	1.45
	L0002080	492178.93	3661668.26	199.21	1.55	0.00870	13.92		6.48	1.45
	L0002081	492188.25	3661657.92	200.83	1.55	0.00870	13.92		6.48	1.45
	L0002082	492197.57	3661647.57	200.81	1.55	0.00870	13.92		6.48	1.45
	L0002083	492206.89	3661637.23	200.86	1.55	0.00870	13.92		6.48	1.45
	L0002084	492216.21	3661626.88	200.99	1.55	0.00870	13.92		6.48	1.45
	L0002085	492225.53	3661616.53	201.01	1.55	0.00870	13.92		6.48	1.45
	L0002086	492234.85	3661606.19	201.11	1.55	0.00870	13.92		6.48	1.45
	L0002087	492244.17	3661595.84	201.20	1.55	0.00870	13.92		6.48	1.45
	L0002088	492253.49	3661585.50	199.94	1.55	0.00870	13.92		6.48	1.45
	L0002089	492262.81	3661575.15	197.40	1.55	0.00870	13.92		6.48	1.45
	L0002090	492272.13	3661564.80	196.15	1.55	0.00870	13.92		6.48	1.45
	L0002091	492281.45	3661554.46	196.56	1.55	0.00870	13.92		6.48	1.45
	L0002092	492290.77	3661544.11	196.84	1.55	0.00870	13.92		6.48	1.45

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N2	L0002208	491390.94	3662830.81	222.49	1.55	0.01124	17.89		8.32	1.45
	L0002209	491398.96	3662814.82	222.25	1.55	0.01124	17.89		8.32	1.45
	L0002210	491406.97	3662798.83	222.13	1.55	0.01124	17.89		8.32	1.45
	L0002211	491414.99	3662782.84	221.98	1.55	0.01124	17.89		8.32	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N2	L0002212	491423.01	3662766.85	221.77	1.55	0.01124	17.89		8.32	1.45
	L0002213	491431.02	3662750.86	221.55	1.55	0.01124	17.89		8.32	1.45
	L0002214	491439.04	3662734.87	221.42	1.55	0.01124	17.89		8.32	1.45
	L0002215	491447.06	3662718.88	221.04	1.55	0.01124	17.89		8.32	1.45
	L0002216	491455.07	3662702.89	220.83	1.55	0.01124	17.89		8.32	1.45
	L0002217	491463.09	3662686.90	220.74	1.55	0.01124	17.89		8.32	1.45
	L0002218	491471.11	3662670.91	220.43	1.55	0.01124	17.89		8.32	1.45
	L0002219	491479.12	3662654.92	220.08	1.55	0.01124	17.89		8.32	1.45
	L0002220	491487.14	3662638.93	219.89	1.55	0.01124	17.89		8.32	1.45
	L0002221	491495.16	3662622.94	219.63	1.55	0.01124	17.89		8.32	1.45
	L0002222	491503.17	3662606.95	219.27	1.55	0.01124	17.89		8.32	1.45
	L0002223	491511.19	3662590.96	218.94	1.55	0.01124	17.89		8.32	1.45
	L0002224	491519.21	3662574.97	218.57	1.55	0.01124	17.89		8.32	1.45
	L0002225	491527.22	3662558.98	218.16	1.55	0.01124	17.89		8.32	1.45
	L0002226	491535.40	3662543.07	217.86	1.55	0.01124	17.89		8.32	1.45
	L0002227	491544.01	3662527.39	217.72	1.55	0.01124	17.89		8.32	1.45
	L0002228	491552.61	3662511.71	217.09	1.55	0.01124	17.89		8.32	1.45
	L0002229	491561.22	3662496.03	216.71	1.55	0.01124	17.89		8.32	1.45
	L0002230	491569.83	3662480.35	216.30	1.55	0.01124	17.89		8.32	1.45
	L0002231	491578.43	3662464.67	215.82	1.55	0.01124	17.89		8.32	1.45
	L0002232	491587.04	3662448.99	215.44	1.55	0.01124	17.89		8.32	1.45
	L0002233	491595.64	3662433.30	215.12	1.55	0.01124	17.89		8.32	1.45
	L0002234	491604.25	3662417.62	214.56	1.55	0.01124	17.89		8.32	1.45
	L0002235	491612.85	3662401.94	214.11	1.55	0.01124	17.89		8.32	1.45
	L0002236	491621.46	3662386.26	213.60	1.55	0.01124	17.89		8.32	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N2	L0002237	491630.81	3662371.04	213.04	1.55	0.01124	17.89		8.32	1.45
	L0002238	491640.92	3662356.28	212.55	1.55	0.01124	17.89		8.32	1.45
	L0002239	491651.03	3662341.52	212.18	1.55	0.01124	17.89		8.32	1.45
	L0002240	491661.14	3662326.77	211.45	1.55	0.01124	17.89		8.32	1.45
	L0002241	491671.25	3662312.01	211.09	1.55	0.01124	17.89		8.32	1.45
	L0002242	491681.35	3662297.25	210.37	1.55	0.01124	17.89		8.32	1.45
	L0002243	491691.46	3662282.50	209.78	1.55	0.01124	17.89		8.32	1.45
	L0002244	491701.57	3662267.74	209.18	1.55	0.01124	17.89		8.32	1.45
	L0002245	491711.68	3662252.98	208.56	1.55	0.01124	17.89		8.32	1.45
	L0002246	491721.79	3662238.23	208.05	1.55	0.01124	17.89		8.32	1.45
	L0002247	491731.90	3662223.47	207.41	1.55	0.01124	17.89		8.32	1.45
	L0002248	491742.01	3662208.72	206.79	1.55	0.01124	17.89		8.32	1.45
	L0002249	491752.12	3662193.96	206.66	1.55	0.01124	17.89		8.32	1.45
	L0002250	491762.48	3662179.38	205.82	1.55	0.01124	17.89		8.32	1.45
	L0002251	491773.22	3662165.08	205.32	1.55	0.01124	17.89		8.32	1.45
	L0002252	491783.96	3662150.77	204.86	1.55	0.01124	17.89		8.32	1.45
	L0002253	491794.70	3662136.47	204.14	1.55	0.01124	17.89		8.32	1.45
	L0002254	491805.44	3662122.17	203.96	1.55	0.01124	17.89		8.32	1.45
	L0002255	491816.18	3662107.86	203.25	1.55	0.01124	17.89		8.32	1.45
	L0002256	491826.92	3662093.56	203.05	1.55	0.01124	17.89		8.32	1.45
	L0002257	491838.19	3662079.67	202.47	1.55	0.01124	17.89		8.32	1.45
	L0002258	491849.51	3662065.82	202.16	1.55	0.01124	17.89		8.32	1.45
	L0002259	491860.82	3662051.96	201.75	1.55	0.01124	17.89		8.32	1.45
	L0002260	491872.14	3662038.11	201.42	1.55	0.01124	17.89		8.32	1.45
	L0002261	491883.46	3662024.26	201.20	1.55	0.01124	17.89		8.32	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N2	L0002262	491894.77	3662010.41	200.85	1.55	0.01124	17.89		8.32	1.45
	L0002263	491906.09	3661996.55	200.72	1.55	0.01124	17.89		8.32	1.45
	L0002264	491917.40	3661982.70	200.36	1.55	0.01124	17.89		8.32	1.45
	L0002265	491928.72	3661968.85	200.33	1.55	0.01124	17.89		8.32	1.45
	L0002266	491940.04	3661955.00	200.01	1.55	0.01124	17.89		8.32	1.45
	L0002267	491951.52	3661941.28	199.89	1.55	0.01124	17.89		8.32	1.45
	L0002268	491963.24	3661927.77	199.75	1.55	0.01124	17.89		8.32	1.45
	L0002269	491974.97	3661914.26	199.64	1.55	0.01124	17.89		8.32	1.45
	L0002270	491986.69	3661900.76	199.65	1.55	0.01124	17.89		8.32	1.45
	L0002271	491998.42	3661887.25	199.49	1.55	0.01124	17.89		8.32	1.45
	L0002272	492010.14	3661873.74	199.59	1.55	0.01124	17.89		8.32	1.45
	L0002273	492021.86	3661860.23	199.46	1.55	0.01124	17.89		8.32	1.45
	L0002274	492033.59	3661846.72	199.45	1.55	0.01124	17.89		8.32	1.45
	L0002275	492045.31	3661833.21	199.51	1.55	0.01124	17.89		8.32	1.45
	L0002276	492057.04	3661819.70	199.59	1.55	0.01124	17.89		8.32	1.45
	L0002277	492068.79	3661806.22	199.65	1.55	0.01124	17.89		8.32	1.45
	L0002278	492080.84	3661793.00	199.73	1.55	0.01124	17.89		8.32	1.45
	L0002279	492092.88	3661779.77	199.89	1.55	0.01124	17.89		8.32	1.45
	L0002280	492104.92	3661766.54	199.92	1.55	0.01124	17.89		8.32	1.45
	L0002281	492116.96	3661753.32	200.22	1.55	0.01124	17.89		8.32	1.45
	L0002282	492129.01	3661740.09	200.04	1.55	0.01124	17.89		8.32	1.45
	L0002283	492141.05	3661726.87	198.34	1.55	0.01124	17.89		8.32	1.45
	L0002284	492153.09	3661713.64	195.45	1.55	0.01124	17.89		8.32	1.45
	L0002285	492165.13	3661700.41	194.88	1.55	0.01124	17.89		8.32	1.45
	L0002286	492177.18	3661687.19	198.03	1.55	0.01124	17.89		8.32	1.45

Source Pathway - Source Inputs

AERMOD

Line Source ID	Volume Source ID	X Coordinate [m]	Y Coordinate [m]	Base Elevation [m]	Release Height [m[	Emission Rate [g/s]	Length of Side [m]	Building Height [m]	Initial Lateral Dimencion [m]	Initial Vertical Dimencion [m]
I15N2	L0002287	492189.22	3661673.96	200.48	1.55	0.01124	17.89		8.32	1.45
	L0002288	492201.26	3661660.73	200.57	1.55	0.01124	17.89		8.32	1.45
	L0002289	492213.30	3661647.51	200.61	1.55	0.01124	17.89		8.32	1.45
	L0002290	492225.35	3661634.28	200.68	1.55	0.01124	17.89		8.32	1.45
	L0002291	492237.39	3661621.06	200.83	1.55	0.01124	17.89		8.32	1.45
	L0002292	492249.43	3661607.83	200.90	1.55	0.01124	17.89		8.32	1.45
	L0002293	492261.47	3661594.60	201.02	1.55	0.01124	17.89		8.32	1.45
	L0002294	492273.52	3661581.38	199.30	1.55	0.01124	17.89		8.32	1.45
	L0002295	492285.56	3661568.15	198.25	1.55	0.01124	17.89		8.32	1.45
	L0002296	492297.60	3661554.92	197.07	1.55	0.01124	17.89		8.32	1.45

Receptor Pathway

Receptor Networks

Note: Terrain Elavations and Flagpole Heights for Network Grids are in Page RE2 - 1 (If applicable)
Generated Discrete Receptors for Multi-Tier (Risk) Grid and Receptor Locations for Fenceline Grid are in Page RE3 - 1 (If applicable)

Uniform Cartesian Grid

Receptor Network ID	Grid Origin X Coordinate [m]	Grid Origin Y Coordinate [m]	No. of X-Axis Receptors	No. of Y-Axis Receptors	Spacing for X-Axis [m]	Spacing for Y-Axis [m]
UCART1	491585.00	3661115.00	30	30	50.00	50.00

Discrete Receptors

Discrete Cartesian Receptors

Record Number	X-Coordinate [m]	Y-Coordinate [m]	Group Name (Optional)	Terrain Elevations	Flagpole Heights [m] (Optional)
1	492202.38	3661785.01		195.04	1.52
2	492203.35	3661784.87		195.02	4.57
3	492204.31	3661784.67		195.00	7.62
4	492197.70	3661789.18		195.15	1.52
5	492197.93	3661790.14		195.15	4.57
6	492198.16	3661791.15		195.16	7.62
7	492214.66	3661870.14		196.17	1.52
8	492214.86	3661871.12		196.18	4.57
9	492215.11	3661872.08		196.19	7.62
10	492235.74	3661943.88		196.93	1.52
11	492236.07	3661945.37		196.95	4.57
12	492236.34	3661946.73		196.97	7.62
13	492224.80	3661784.94		194.76	1.52
14	492226.03	3661784.77		194.75	4.57
15	492227.65	3661784.48		194.73	7.62
16	492261.24	3661777.79		196.07	1.52
17	492262.37	3661777.51		196.10	4.57
18	492263.53	3661777.25		196.14	7.62
19	492264.93	3661776.89		196.18	10.67
20	492333.06	3661763.14		199.66	1.52
21	492334.81	3661762.83		199.71	4.57
22	492336.22	3661762.56		199.75	7.62

Plant Boundary Receptors

Meteorology Pathway

AERMOD

Met Input Data

Surface Met Data

Filename: ESC_2010_2012_sigma_v19191.SFC
Format Type: Default AERMET format

Profile Met Data

Filename: ESC_2010_2012_sigma_v19191.PFL
Format Type: Default AERMET format

Wind Speed

☐ Wind Speeds are Vector Mean (Not Scalar Means)

Wind Direction

Rotation Adjustment [deg]:

Potential Temperature Profile

Base Elevation above MSL (for Primary Met Tower): 197.00 [m]

Meteorological Station Data

Stations	Station No.	Year	X Coordinate [m]	Y Coordinate [m]	Station Name
Surface		2010			
Upper Air		2010			
On-Site		2010			

Data Period

Data Period to Process

Start Date: 1/1/2010 Start Hour: 1 End Date: 12/31/2012 End Hour: 24

Wind Speed Categories

Stability Category	Wind Speed [m/s]	Stability Category	Wind Speed [m/s]
A	1.54	D	8.23
B	3.09	E	10.8
C	5.14	F	No Upper Bound

Output Pathway

Tabular Printed Outputs

Short Term Averaging Period	RECTABLE Highest Values Table										MAXTABLE Maximum Values Table	DAYTABLE Daily Values Table
	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th		
1	☑	☐	☐	☐	☐	☐	☐	☐	☐	☐		No

Contour Plot Files (PLOTFILE)

Path for PLOTFILES: Alexan Dispersion.AD

Averaging Period	Source Group ID	High Value	File Name
1	ALL	1st	01H1GALL.PLT
Period	ALL	N/A	PE00GALL.PLT

HARP Project Summary Report 11/1/2024 7:07:06 AM

PROJECT INFORMATION
HARP Version: 22118
Project Name: ALEXAN RISK
HARP Database: NA

EMISSION INVENTORY
No. of Pollutants: 26
No. of Background Pollutants: 0

Emissions

ScrID	StkID	ProID	PolID	PolAbbrev	Multi	Annual Ems (lbs/yr)	MaxHr Ems (lbs/hr)	MWAF
I15N1		0	0	9901 DieselExhPM	1	3.5758	0.00074454	1
I15N2		0	0	9901 DieselExhPM	1	21.499	0.0044764	1
I15N3		0	0	9901 DieselExhPM	1	70.791	0.01474	1
I15S1		0	0	9901 DieselExhPM	1	4.6407	0.00096628	1
I15S2		0	0	9901 DieselExhPM	1	17.389	0.0036206	1
I15S3		0	0	9901 DieselExhPM	1	73.479	0.0153	1
I15NR1		0	0	9901 DieselExhPM	1	0.48184	0.00010033	1
I15SR1		0	0	9901 DieselExhPM	1	1.1094	0.000231	1
I15N4		0	0	9901 DieselExhPM	1	0	0	1
I15N5		0	0	9901 DieselExhPM	1	3.3541	0.00069838	1
I15N6		0	0	9901 DieselExhPM	1	11.819	0.002461	1
I15S4		0	0	9901 DieselExhPM	1	40.734	0.0084816	1
I15S5		0	0	9901 DieselExhPM	1	3.3629	0.00070022	1
I15S6		0	0	9901 DieselExhPM	1	10.197	0.0021232	1
I15NR2		0	0	9901 DieselExhPM	1	44.362	0.009237	1
I15SR2		0	0	9901 DieselExhPM	1	0.27277	5.68E-05	1
FEL1		0	0	9901 DieselExhPM	1	0.34276	7.14E-05	1
FEL2		0	0	9901 DieselExhPM	1	0	0	1
FEL3		0	0	9901 DieselExhPM	1	1.433	0.00029837	1
MIL1		0	0	9901 DieselExhPM	1	0.35726	7.44E-05	1
BRO1		0	0	9901 DieselExhPM	1	0.99873	0.00020796	1
BRO2		0	0	9901 DieselExhPM	1	0	0	1
GAM1		0	0	9901 DieselExhPM	1	0.76204	0.00015867	1
WCI1		0	0	9901 DieselExhPM	1	0	0	1
WCI2		0	0	9901 DieselExhPM	1	0.10263	2.14E-05	1
WCI3		0	0	9901 DieselExhPM	1	0.34927	7.27E-05	1

9901MAXHR.txt
9901PER.txt

POLLUTANT HEALTH INFORTION
Health Database: C:\HARP2\Tables\HEALTH17320.mdb
Health Table Version: HEALTH23279
Official: True

PolID	PolAbbrev	InhCancer	OralCancer	AcuteREL	InhChronic REL	OralChronicREL	InhChronic8HRREL
9901	DieselExh PM	1.1			5		

Appendix D

Climate Action Plan Checklist

Climate Action Plan Consistency Review Checklist

Project # PL23-0273, PL23-0274, PL23-0275, PL23-0276, PL26-0010

Introduction

The City of Escondido ("City") adopted an updated Climate Action Plan ("CAP") on March 10, 2021 by Resolution No. 2021-37. The CAP outlines strategies and measures that the City will undertake to achieve its proportional share of State greenhouse gas ("GHG") emissions reduction targets. The CAP's strategies and measures are designed to reduce GHG emissions for build-out under the General Plan. The CAP does so by (1) calculating a baseline GHG emissions level as of 2012; and (2) estimating future GHG emissions under a business as usual standard; and (3) implementing state mandated GHG reduction targets. Measures to reduce GHG emissions for projects with land use consistent with the City's General Plan are found in the CAP.

Analysis of GHG emissions and potential climate change impacts from new development is required under CEQA. The purpose of the CAP Consistency Checklist ("Checklist") is to provide a streamlined review process for proposed development projects that trigger environmental review pursuant to the California Environmental Quality Act ("CEQA").

The City's CAP is a qualified GHG emissions reduction plan in accordance with State CEQA Guidelines Section 15183.5. Pursuant to CEQA Guidelines Sections 15064(h)(3), 15130(d), and 15183(b), a project's incremental contribution to a cumulative GHG emissions effect may be determined not to be cumulatively considerable if it complies with the requirements of a CAP. Projects that are consistent with the General Plan and implement applicable CAP GHG reduction measures may incorporate by reference the CAP's cumulative GHG analysis. Conversely, projects that are consistent with the General Plan, but do not implement CAP GHG reduction measures, as well as General Plan Amendments and Annexations that increase emissions beyond CAP projections — will require a project-level GHG analysis.

The purpose of this Checklist is to implement GHG reduction measures from the CAP and determine if development would demonstrate consistency with the CAP's assumptions for implementation. Projects that are consistent with the CAP, as determined through the use of this Checklist, may rely on the CAP for the cumulative impact analysis of GHG emissions. Projects that are not consistent with the CAP must prepare a comprehensive project-specific analysis of GHG emissions, including quantification of existing and projected GHG emissions, incorporation of the measures in this Checklist to the extent applicable, and demonstration of consistency with a VMT threshold currently in development by the City. Cumulative GHG impacts could be significant for any project that is not consistent with the CAP.

This Checklist may be updated periodically to incorporate new GHG reduction techniques, include reference to or requirements of new ordinances adopted by the City, or to comply with later amendments to the CAP or local, State, or federal law. Comprehensive updates to this Checklist will be coordinated with each CAP update. Administrative updates to the Checklist may occur regularly, as necessary for the

purpose of keeping the Checklist up-to-date and implementable. Updates to the CAP Checklist associated with an update to the City's CAP would require City Council approval and shall comply with CEQA.

Applicability and Procedures

This Checklist is required only for discretionary projects[1] that are subject to and not exempt from CEQA. Projects that are exempt from CEQA are deemed to be consistent with the City's CAP, and no further review is necessary, with the exception of a Class 32 "In-Fill Development Projects" categorical exemption (State CEQA Guidelines Section 15332), for which projects are required to demonstrate consistency with the CAP through this Checklist.

General procedures for Checklist compliance and review are described below. Specific guidance is also provided under each of the questions under Steps 1 and 2 of the Checklist.

- The City's Community Development Department reviews development applications relative to environmental review requirements under Article 47 of the Escondido Zoning Code. These environmental quality regulations implement CEQA and State CEQA Guidelines by applying the provisions and procedures contained in CEQA to development projects proposed within the City.

- The project proponent or applicant must demonstrate if the project request is CAP compliant to the satisfaction of the Director of Community Development. In doing so, the project proponent or applicant must provide written documentation to demonstrate the applicability of the Checklist; and provide substantial evidence that demonstrates how the proposed project would implement each applicable Checklist requirement described herein.

- If a question in the Checklist is deemed not applicable (N/A) to a project, written documentation and substantial evidence supporting that conclusion shall be provided to the satisfaction of the Director of Community Development.

- Development projects requiring discretionary review that cannot demonstrate consistency with the CAP using this Checklist shall prepare a separate, project-level GHG analysis as part of the CEQA document prepared for the project and may be required to prepare an Environment Impact Report ("EIR").

- The specific applicable requirements outlined in the Checklist shall be required as conditions of project approval for CAP compliant projects with streamlined GHG emissions assessments.

[1] In this context, a project is any action that meets the definition of a "Project" in Section 15378 of the State CEQA Guidelines.

Application Information

Contact Information

Project No. and Name: Alexan Escondido and Bethel Baptist Church Project

Property Address and APN: 855 Brotherton Road, Escondido, CA 92025, APNs 236-333-41 and 236-333-53

Applicant Name and Co.: Escondido Apartments Owner, LLC

Contact Phone: (858) 774-7292 Contact Email: gmoiseve@crowholdings.com

Was a consultant retained to complete this checklist? ☒ Yes ☐ No
If Yes, complete the following:

Consultant Name: Victor Ortiz Contact Phone: (619) 462-1515

Company Name: HELIX Environmental Planning, Inc. Contact Email: victoro@helixepi.com

Project Information

1. What is the size of the project site (acres)? 14.83

2. Identify all applicable proposed land uses:

- ☐ Residential (indicate # of single-family dwelling units):
- ☒ Residential (indicate # of multi-family dwelling units): 258 dwelling units
- ☒ Commercial (indicate total square footage): 24,627 square feet
- ☐ Industrial (indicate total square footage):
- ☐ Other (describe use and indicate size):

3. Provide a description of the project proposed. This description should match the basic project description used for the CEQA document. The description may be attached to the Checklist if there are space constraints.

See attached Project Description.

Step 1: Land Use Consistency

The first step in this section evaluates a project's GHG emissions consistent with the City's *Guidance to Demonstrating Consistency with the City of Escondido Climate Action Plan for Discretionary Projects Subject to CEQA* (Guidance Document). A summary of the process for determining the required level of analysis for these projects is provided in Figure 1, "Require Level of Analysis Flowchart," provided in the Guidance Document.

The CAP contains in-City GHG projections for 2020, 2030, and 2035. Measures to reduce GHG emissions for projects with land use consistent with the General Plan are found in the CAP. If any one of these calculations is erroneous, the CAP fails to accomplish this purpose. Therefore, the first step of this checklist is to determine if the project's anticipated growth would have been included in the CAP's business-as-usual land use and activity projections. This section allows the City to determine a project's consistency with the land use assumptions used in the CAP. Projects that are consistent with the General Plan may incorporate by reference the CAP's cumulative GHG analysis.

For projects that are determined to be consistent with CAP projections, the next step is to identify if the project would be estimated to emit fewer than 500 metric tons of carbon dioxide equivalent ($MTCO_2e$) annually. If found to emit fewer than 500 $MTCO_2e$, a project would not contribute considerably to cumulative climate change impacts as stated in the City's Guidance Document. Therefore, these projects would be considered consistent with the CAP.

Additionally, at the time of this CAP Checklist preparation, the City is in the process of developing screening thresholds for vehicle miles traveled (VMT) consistent with State legislation. . Thus, projects that would be below both the GHG and VMT screening level thresholds would not be anticipated to result in cumulative GHG impacts and conflict with the City's ability to achieve its GHG reduction targets.

Step 1: Land Use Consistency		
Checklist Item (Check the appropriate box and provide an explanation and supporting documentation for your answer)	**Yes**	**No**
1. Is the proposed project consistent with the City's existing General Plan land use designation? If **"Yes"**, proceed to Question 3 of Step 1. If **"No"**, proceed to Question 2 of Step 1.	☐	☒
2. If the proposed project is not consistent with the existing General Plan land use designation, does the project include a General Plan Amendment that would generate GHG emissions equal to or less than estimated emissions generated under the existing designation? If **"Yes",** provide estimated project emissions under both existing and proposed designation(s) for comparison and proceed to Question 3 of Step 1. If **"No",** the project's GHG impact is potentially significant, and a GHG analysis must be prepared in accordance with the City's Guidance Document and applicable CEQA Guidelines. The project would not be eligible for GHG streamlining provisions of the CAP. The project must incorporate each of the measures identified in Step 2 to mitigate cumulative GHG emissions impacts unless a measure is determined to be infeasible in accordance with CEQA Guidelines Section 15091. Proceed and complete a project specific GHG analysis, and Step 2 of the Checklist.	☒ Emissions comparison provided in AQ/GHG Technical Report by HELIX (2026)	☐
3. The size and type of projects listed below would emit fewer than 500 $MTCO_2e$ per year. Based on this threshold, does the proposed project exceed these characteristics? ▪ Single-Family Housing[2]: 36 dwelling units ▪ Multi-Family Housing: 55 dwelling units ▪ Office: 43,000 square feet ▪ Commercial Space: 20,000 square feet ▪ Regional Shopping Center: 18,000 square feet ▪ Restaurant: 6,500 square feet ▪ General Light Industrial: 58,000 square feet ▪ Warehouse (Unrefrigerated): 233,000 square feet ▪ Warehouse (Refrigerated): 62,000 square feet ▪ Mixed-Use: See the City's Guidance Document[3] for methods to estimate mixed-use development thresholds ▪ Other: For project types not listed in this section the need for GHG analysis and mitigation will be made on a project-specific basis, considering the 500 $MTCO_2e$ per year screening threshold. If **"Yes",** proceed to Step 2. If **"No",** in accordance with the City's CAP screening criteria, the project's GHG impact is less than significant and is not subject to the measures of the CAP.	☒	☐

[2] Single-Family Housing developments are defined as single-family detached homes on individual lots. All other residential use types (e.g. single-family attached, condo/townhouse, apartment) should be considered "Multi-Family Housing" for the purposes of comparing a project to the screening thresholds.

[3] *Guidance for Demonstrating Consistency with the City of Escondido Climate Action Plan for discretionary Projects Subject to CEQA,* available at https://www.escondido.org/Data/Sites/1/media/PDFs/Planning/ClimateActionPlan/Final/Escondido_ThresholdsMemoFinal3.10.2021.pdf

Step 2: CAP Measures Consistency

The second step of CAP consistency review is to evaluate a project's consistency with the applicable strategies and measures of the CAP. Each Checklist item is associated with specific GHG reduction measures in the City's CAP.

Step 2: CAP Measures Consistency			
Checklist Item (Check the appropriate box and provide an explanation for your answer. Please use additional sheets if necessary)	**Yes**	**No**	**N/A**
Parking and Transportation Demand Management			
1. Electric Vehicle Charging Stations (Measures T-1.3 & T-1.4) All Projects: Will the project install electric vehicle charging stations (EVCSs) consistent with the following requirements: • Comply with the most recently updated version of the California Building Energy Efficiency Standards (Title 24, Part 6)? • For multi-family residential and commercial (i.e. office and retail commercial) projects, will the project install electric vehicle charging stations at a minimum of 10 percent of the total parking spaces provided? • For single-family residential projects, will the project install at least one EVCS in each new single-family home? Check "N/A" only if the project is not proposing any parking; or if the project does not propose any construction activities.	☒	☐	☐
Please substantiate how the project satisfies question 1: The project proposes 441 parking stalls, 45 of which would be designated for electric vehicles and equipped with electric vehicle charging stations. Therefore, the project is compliant with this measure.			
2. Pedestrian Infrastructure (Measure T-3.2) All Projects: If the following conditions are met, would the project pay its fair-share contribution or fully install pedestrian infrastructure improvements? ☒ The project frontage is located along a roadway for which pedestrian improvements are identified in the City's Street Design Manual, Pedestrian Master Plan, Trail Master Plan, or Safe Routes to School and Transit Plans; ☒ The proposed project would include site design amenities with pedestrian access points from the existing, identified roadway; and, ☒ The identified pedestrian improvements have not yet been installed. Or if they have been installed, the infrastructure is being redesigned, upgraded, and/or maintained to promote universal access. Check "N/A" only if the project does not propose any construction activities.	☒	☐	☐

Please substantiate how the project satisfies question 2:

The project proposes to install a sidewalk along Felicita Road adjacent to the Project site and extending to Palm Terrace. The existing sidewalk along Brotherton Road would remain in place, except for the addition of curb cuts and ADA ramps at the Felicita Road intersection. Access to the residential development would be provided by a new driveway off Brotherton Road and a proposed driveway off Felicita Road. Access to the church development would be provided along Brotherton Road.

3. Transportation Demand Management and Transit (Measures T-3.4 and T-3.6) Single-Family Projects: N/A Multi-Family Residential Projects: If the project is located in the Downtown Specific Plan area and is proposing a reduction in over 15 percent of the required amount of on-site vehicular parking, would the project implement the following policies or programs? • The project would provide six-month transit passes to new residents; • The project establishes strong connections in site design to promote convenient access and transit orientation; and, • The project would monitor transit use by new residents for the first six months of project operations. Non-Residential Projects: If the project is located within the Downtown Specific Plan, South Centre City Specific Plan, or East Valley Parkway Specific Plan, will the project implement Transportation Demand Management (TDM) program that includes, at a minimum: • "End-of-trip" facilities for bicycle commuters (e.g. bicycle parking spaces, showers, lockers); • Discounted monthly North County Transit District (NCTD) passes or transit subsidies; • Informational material (provided to each employee or tenant) for carpool and vanpool ride-matching services; and • Parking cash-out policies. Check "N/A" only if the project is a single-family residential project; if the project is multi-family or non-residential but not located within the aforementioned specific plans; or if the project does not propose any construction activities..	☐	☐	☒

Please substantiate how the project satisfies question 3:

The project is not within the Downtown, South Centre City, or East Valley Specific Plan planning areas.

4. Bicycle Infrastructure (Measure T-3.5) All Projects: If the following conditions are met, would the project pay its fair-share contribution to bicycle infrastructure improvements? ☐ Intersection or roadway improvements are proposed as part of the project; and ☐ The City's Bicycle Master Plan for identifies bicycle infrastructure improvements at any intersection(s) or roadway segment(s) that would be impacted as part of the project. Check "N/A" if the intersection or roadway improvements required are fully in place to the satisfaction of the Director of Community Development; or if the project does not propose any construction activities.	☐	☐	☒

Please substantiate how the project satisfies question 4:

The City's Bicycle Master Plan identifies existing bicycle lanes along the project's Felicita Road frontage. The project would widen Felicita Road and, as part of the widening, would re-stripe the existing bicycle lane. Therefore, the Bicycle Master Plan improvements for project impacted roads and intersections are fully in place and would remain with implementation of the project. No fair-share contribution is required.

Building Energy Use and Efficiency

5. Alternatively Fueled Water Heaters (Measures E-4.1 and E-4.2) Residential Projects: If the project is a new single-family or multi-family residential development, will the project install electric heat pump water heaters? Non-Residential Projects: If the project is non-residential, will the project install electric heat pump water heaters? Check "N/A" only if the project is non-residential and has an alteration and addition with a permit value of $200,000 or less; or if the project does not propose any construction activities.	☒	☐	☐

Please substantiate how the project satisfies question 5:

The residential development would install electric heat pump water heaters in-lieu of natural gas powered water heaters per Title 24.

6. Electric Cooking Appliances (Measure E-4.2) Single-Family Residential Projects: N/A Multi-Family Residential Projects: If the project is a new multi-family residential development, will the project install only electric cooking appliances? Non-Residential Projects: N/A Check "N/A" only if the project is a single-family residential or non-residential project, or if the project does not propose any construction activities.	☒	☐	☐

Please substantiate how the project satisfies question 6:

The residential development would install only electric cooking appliances in the proposed residential units per Title 24 requirements.

7. Zero Net Energy (Measure E-5.2) Residential Projects: N/A Commercial Projects: If the project is a new commercial retail or office development, would the project achieve zero net energy (i.e. the total amount of energy used on-site is equal to the amount of renewable energy created on-site) and comply with the most recently updated California Building Energy Efficiency Standards (Title 24, Part 6)? Check "N/A" only if the project is a residential or project, or if the project does not propose any construction activities.	☐	☐	☒

Please substantiate how the project satisfies question 7:

The project does not propose any commercial retail or office uses.

Landscaping and Land Conservation

8. Landscape Water Consumption (Measure W-6.2) Single-Family Residential Projects: If the project is proposing a single-family or townhome model home development, would the project: • Fully equip all model homes with greywater systems and rain barrels (or other rainwater capture systems); and, • Offer greywater systems and rain barrels (or other rainwater capture systems) as an add-on option for new homes. Non-Residential Projects: N/A Check "N/A" if the project is not a single-family or townhome model home development; or if the project does not propose any construction activities.	☐	☐	☒

Please substantiate how the project satisfies question 8:

The project proposes a multi-family residential complex and church building renovation and is not a single-family or townhome model home development.

9. Tree Planting (Measure C-9.1) All Projects: Would the project plant trees consistent with the following requirements? • Would the project plant a minimum of one tree for every four new parking spaces and/or demonstrate 50% canopy coverage in parking areas? Residential Projects: In addition to the planting requirements above for all projects, would the project be consistent with the following requirement? • Would the project plant a minimum of one tree per dwelling unit or pay an in-lieu fee? Check "N/A" only if the project is not proposing any landscaping; or if the City's landscape ordinance would not apply to the project.	☒	☐	☐

Please substantiate how the project satisfies question 9:

The existing project site contains 204 parking spaces, and the proposed project would provide 648 parking spaces, resulting in 444 new parking spaces. Therefore, the project would be required to plant 111 trees to fulfill the "All Projects" requirement. The project includes 258 dwelling units which would require an additional 258 trees, making the total required trees 369 trees. The project plans to plant 601 new trees and would therefore be consistent with this measure.

PROJECT DESCRIPTION

Project Location

The Alexan Escondido and Bethel Baptist Church Project (project) site, which is located at 855 Brotherton Road within the southern portion of the City, consists of two parcels (APN 236-333-41-00 and APN 236-333-53-00) that encompass a total of 14.83 acres. The western portion of the site (approximately eight acres) is proposed for residential development and is referred to herein as the "residential site." The eastern portion of the site (approximately seven acres) is proposed for the new church and is referred to herein as the "church site." The project site is bounded by Felicita Road to the west; Brotherton Road to the north; single-family homes (along Miller Avenue) to the east, and single-family homes along Palm Terrace and agricultural uses along Miller Avenue to the south. The project site is developed with a church building, two private school education buildings, playgrounds, and a basketball court, and surface parking on an elevated building pad. The project site also contains a drainage swale, dirt/vegetated fields, and utility infrastructure. The surrounding area consists of single-family residences to the west; single-family residences, a nursing home, and Miller Elementary School to the north; single-family residences and a small orchard to the east; and single-family residences and agriculture uses to the south. I-15 is approximately 120 feet to the west of the site.

Project Characteristics

The proposed project entails the construction of a multi-family residential development (Alexan Escondido), a new church building (Bethel Baptist Church), and associated improvements on a developed site with an existing church facility and private school. Specific project components of the proposed residential and church developments are described below.

Alexan Escondido Residential Development

The proposed residential development includes 258 multi-family apartments within 10 buildings with a mix of one- to three-bedroom units. It is anticipated that 13 (5% very low-income) of the residential units will be affordable. The residential buildings would include four different building types, each with a different form and combination of units. The unit mix would include 112 one-bedroom units ranging in size from approximately 700 to 800 SF, 122 two-bedroom units ranging between approximately 1,000 and 1,600 SF, and 24 three-bedroom units between 1,600 and 1,800 SF. The total residential gross building area would encompass approximately 350,380 SF.

Type A buildings would be approximately 100 feet long by 50 feet wide and would consist of three stories at a height of approximately 38 feet that would contain six, two- to three-bedroom units, for a total of 12,989 SF. One- and two-car garages would be located on the first floor along with a bedroom (only in the three-bedroom units). The second floor would contain the kitchen and living areas, and the third floor would contain bedrooms. A total of two Type A buildings would be constructed along the northern portion of the project site.

Type B buildings would be approximately 200 feet long by 40 feet wide and would contain a single row of nine, three-bedroom units with a total of 20,560 SF. Type B buildings would be three stories at a height of approximately 38 feet. The first floor would include two-car garages and in some units, one bedroom. The

second floor would contain the kitchen and living areas, and the third floor would contain bedrooms. A total of two Type B buildings would be constructed along the western portion of the project site.

Type C buildings would be approximately 180 feet long by 55 feet wide and would consist of three stories at a height of approximately 38 feet. Each Type C building would include 20, one- to two-bedroom units with a total of 27,203 SF. One-car garages and living areas, kitchens, and bedrooms for some units would be on the first floor. The second and third floors would contain kitchens, living areas, and bedrooms. A total of four Type C buildings would be constructed, including two along the eastern portion of the project site and two in the western portion of the site.

Type D buildings would be U-shaped and approximately 165 feet by 155 feet with 74, one-to two-bedroom units with a total of 87,235 SF. Type D buildings would be four stories at a height of approximately 49 feet. Garages and portions of some units would be on the first floor, with the second through fourth floors comprising kitchens, living areas, and bedrooms. The garages are on the interior sides of the U-shaped buildings and separated by a 24-foot-wide drive aisle. A total of two Type D buildings would be constructed in the central portion of the site.

Residential buildings would be designed with a uniform architectural style, including white plaster exterior walls, terra cotta tile roofs, earth-toned stone veneer accents and siding, gray siding, dark vinyl windows, brown fascia and window trim, brown trellises and guardrails, wood corbels, and decorative clay vents.

Resident Amenities

Proposed resident amenities would include a clubhouse/leasing center building, garages, a pet spa, a swimming pool, grassy lawns, and outdoor gathering areas.

The clubhouse/leasing building would encompass 11,544 SF and would include a fitness center, business center, club room, restrooms, pool equipment room, and leasing offices and associated spaces. The building would be two stories at a height of approximately 36 feet and located in the central portion of the residential site. The architecture and design treatments of this building would match the residential buildings.

A resident swimming pool, jacuzzi, and deck area would be constructed adjacent to the clubhouse/leasing center. Seating, tables/benches, covered trellises, heaters, and fire pit would be provided in the pool area.

A small building encompassing 662 SF would be constructed in the eastern portion of the residential site that would contain a pet spa (for residents only) and a maintenance garage. The building would be a single story approximately 16 feet in height and would incorporate the same architecture and design treatments as the other proposed buildings. A small, gated dog park would be provided just south of the lawn.

Access, Circulation, and Parking

Access to the residential development would be provided via two entries. The primary entry would be from Felicita Road with a 36-foot-wide drive aisle near the middle of the project frontage. A secondary entry would be provided along Brotherton Road with a 24-foot-wide drive aisle approximately in the middle of the frontage along the roadway.

Internal circulation for the residential development would be provided via a system of connected 24-foot-wide drive aisles between the project entries, residential garages, and parking areas. Additionally,

accessible walkways would be provided throughout the site to connect the common areas to the residential buildings, amenity buildings, and parking areas. The internal drive aisles and project design provides adequate width and vertical clearance to accommodate fire trucks and emergency response vehicles.

Parking for the residential development would be provided within resident garages and surface lots between the residential buildings. In addition to the garages associated with the residential building types described above, 15 detached resident garages would be provided in the northeastern corner of the residential development and would encompass 3,273 SF. A total of 441 parking spaces would be provided, including 169 garage spaces associated with the residential units, 220 open parking spaces, and 52 carport spaces. Of the 389 total garage and open parking spaces 45 spaces would include electric vehicle (EV) charger spaces and an additional 177 would be EV ready. The proposed number of parking spaces would exceed the required number of 331 spaces.

Landscaping

Landscaping for the residential development would be provided along the project frontages of Felicita Road and Brotherton Road, project entries, proposed buildings, club house/leasing center, parking areas, and other common areas. A variety of trees and shrubs would be planted along the Felicita Road and Brotherton Road project frontages and entries. Proposed tree species include Australian willow, Natchez crape myrtle, and forest pansy redbud. Additional trees (magnolia, Brisbane box, olive, Mexican sycamore, coast live oak, and date palm) and shrubs would be planted internally. The proposed biofiltration basins would be planted with grasses, including dune sedge, sender sedge, spreading rush, and basket rush; and accented with Mexican sage brush. Synthetic turf would be provided at the dog run.

Proposed hardscape improvements for the residential development would include enhanced paving; seating and tables, outdoor kitchen counters, fire pits, and overhead trellises at the club house; bicycle racks; and decorative lighting.

Utilities

Site runoff from the proposed residential development would be directed to three proposed stormwater biofiltration basins within the residential site: one at the northwest corner, one at the southwest corner, and one in the eastern portion of the site, east of the club house and pool deck. Each biofiltration basin would be approximately 645 SF. Runoff from the biofiltration basins would be discharged through the site via a new 54-inch reinforced concrete pipe (RCP) within a proposed 20-foot-wide easement where it would continue off site to the south in dual 30-inch RCP storm drains and connect to an existing 54-inch RCP storm drain in Palm Terrace.

Water and sewer service in the project area is provided by the City. The project would include construction of a series of water and sewer pipelines within the residential site and primarily within the drive aisles. The proposed points of connection would be an existing eight-inch water main in Felicita Road, an existing eight-inch sewer main in Felicita Road, and an existing eight-inch sewer main in Brotherton Road. Additionally, two existing fire hydrants along Felicita Road would be relocated.

Electricity and natural gas service is currently provided to the project site by San Diego Gas & Electric (SDG&E). The project would connect to existing SDG&E infrastructure along Felicita Road and Brotherton Road. The project would remove three existing SDG&E power poles and underground existing overhead power lines along the project frontage on Felicita Road. The project applicant would coordinate with

SDG&E for the undergrounding of these overhead lines. The existing power poles and overhead electric lines along Brotherton Road would remain in place. If the project utilizes natural gas, it would connect to the existing gas lines within Felicita Road and/or Brotherton Road. Telecommunications would also connect to existing infrastructure along Felicita Road.

Walls, Fencing, and Lighting

Walls and fencing are proposed around the site perimeter and in the common areas of the residential development. Retaining walls would be constructed along the eastern and southern residential site boundaries. The retaining walls would be constructed approximately two feet from the property lines and would vary in height between 5 and 13 feet.

The proposed retaining wall along the eastern site boundary would include a planting pocket with vines to grow on the face of the wall. A 42-inch-high steel guardrail would be constructed on top of the proposed retaining walls along the eastern and southern residential site perimeters.

Proposed fencing within the residential development would include a four-foot-high mesh fence around the dog park and a five-foot-high tempered glass fence around the swimming pool area.

Exterior lighting would be provided for safety, security, and circulation purposes. Different exterior lighting fixtures would be used, including pole-mounted streetlights and wall-mounted residential lights. Consistent with Article 35 of the City's Zoning Ordinance, exterior lighting fixtures, with the exception of streetlamps, would be aimed or shielded to prevent spillover onto adjacent property and into the night sky.

Bethel Baptist Church Development

The proposed church development includes the demolition of the existing 24,395 SF church and development of a new church building, an outdoor courtyard, playgrounds, and associated parking and access drives. The proposed church building would encompass 24,627 SF with an approximately 600-seat sanctuary, an entryway/foyer, offices, meeting rooms, a kitchen, and storage. The new building would be an addition to, and would connect with, the two existing school buildings that serve as children/youth classrooms and meeting spaces for the church. The church building would be one story with a mezzanine at a height of approximately 30 feet with a 42-foot-high steeple feature on the northern side. Exterior building materials would include earth-toned stucco, gray metal panel, wood-colored ceramic tile walls, stone steeple and entry columns, and dark bronze aluminum window frames.

The church development would also construct two dwelling units in the eastern portion of the church site. These units would be used as temporary housing for traveling missionaries supported by the church. One unit would include a primary residence with an area of approximately 1,050 SF, and the other would be an approximately 500-SF accessory dwelling unit. The units would be arranged in a linear configuration east of the new church building along the eastern property boundary.

An outdoor courtyard would be constructed to the west of the new church building and between the existing school buildings. The courtyard would include a playground, a water fountain, gathering areas with seating, and landscaping.

A grass sports field and a basketball court would be constructed in the southeastern portion of the church site, south of the church building and parking lots.

Access, Circulation, and Parking

Access to the church development would be provided from two entries along Brotherton Road generally where the existing access drives are located. The western driveway would be approximately 28 feet wide, and the eastern driveway would be approximately 35 feet wide.

The driveways would connect to a paved internal loop road that would be a minimum of 24 feet wide, as well as parking areas on the northern, eastern, and southern sides of the church development. A total of 207 parking spaces would be provided, which would include 12 accessible spaces, 10 EV ready spaces, and 44 EV capable spaces.

The internal loop circulation and project design complies with minimum width and vertical clearance to accommodate fire trucks and emergency response vehicles.

Landscaping

Landscaping for the church development would be provided along the project frontage of Brotherton Road and portions of the eastern, southern, and western church site perimeters; around existing and proposed buildings; and within the proposed courtyard and parking areas.

Trees along Brotherton Road and the church site perimeter would include Mexican sycamores and coast live oaks. A variety of trees would be planted around the buildings and in the parking areas, including Brisbane box, magnolia, Natchez crepe myrtle, Wilson olive desert, white pine, and Australian willow. These trees also would be planted in the courtyard along with date palms. Various shrubs, vines, and groundcover would be planted along the church site perimeters and internally. Proposed biofiltration basins would be planted with grasses, including dune sedge, sender sedge, spreading rush, and basket rush; and accented with Mexican sage brush. Decorative cobble would also be placed at the bottom of the biofiltration basins. Synthetic turf would be provided at the sports field.

Proposed hardscape improvements for the church site would include enhanced paving; seating and tables, and decorative lighting.

Utilities

Site runoff from the proposed church development would be directed to three proposed stormwater biofiltration basins within the church site: one at the northeast corner (approximately 3,000 SF), one near the northwest corner (approximately 3,000 SF), and one in the southeast corner (approximately 9,000 SF). Runoff from the northeastern and northwestern biofiltration basins would be discharged to two curb outlets onto Brotherton Road. Runoff from the southeastern basin would be discharged to three outlets with riprap energy dissipators in the southeastern corner. In addition, a trench drain would be constructed along the eastern and southern church site perimeters that would also collect runoff and convey it to the three outlets.

Water service in the project area is provided by the Rincon Water District and sewer service is provided by the City. The project would include construction of water and sewer pipelines within the internal access drive. The proposed points of connection would be an existing six-inch water main along Brotherton Road and an existing eight-inch sewer main in Brotherton Road.

The project would connect to existing SDG&E infrastructure along Brotherton Road. If the project utilizes natural gas, it would connect to the existing gas lines within Brotherton Road. Telecommunications would also connect to existing infrastructure along Brotherton Road.

Walls, Fencing, and Lighting

A retaining wall would be constructed along the eastern and southern church site boundaries. One continuous wall would extend along the southern site boundary, cut across the southeastern corner, and continue along the eastern site boundary. The retaining wall would be constructed approximately five feet from the property lines and would vary in height, with a maximum height of approximately five feet. A six-foot-high decorative concrete plank wall would be constructed on the eastern side of the proposed courtyard. Proposed fencing within the church development would include a four-foot-high mesh fence around the sports field and a six-foot-high steel rail fence around the playground in the courtyard.

Exterior lighting would be provided for safety, security, and circulation purposes. Different exterior lighting fixtures would be used, including pole-mounted streetlights and wall-mounted building lights. Consistent with Article 35 of the City's Zoning Ordinance, exterior lighting fixtures, with the exception of streetlamps, would be aimed or shielded to prevent spillover onto adjacent property and into the night sky.

Roadway Improvements

Roadway improvements to Felicita Road are proposed along the project frontage and to Palm Terrace to the south. Felicita Road currently has an 84-foot-wide right-of-way (ROW) with 47 feet of pavement, a 5.5-foot-wide sidewalk on the west side, and curb and gutter on both sides. Along the project frontage, the pavement would be widened an additional 17 feet on the east side for a total paved width of 64 feet and a 5.5-foot-wide sidewalk and curb and gutter would be constructed on the east side of the widened pavement that would extend to Palm Terrace. Curb ramps would be installed at the corners of the Brotherton Road and Palm Terrace intersections. A new driveway to the residential property to the immediate south would also be provided.

Along Brotherton Road, improvements would include a new curb cut/driveway at the residential development entrance, and two reconfigured curb cuts/driveways at the church development entrances.

The project also includes off-site roadway improvements to five intersections and one roadway segment in the project area. Additionally, the project proposes off-site improvements at various roadways to reduce significant impacts related to vehicle miles traveled (VMT). As detailed in Section 4.11, *Transportation*, of the EIR and mitigation measure TRA-1, these improvements include installing high-visibility crosswalks at multiple intersections and new sidewalk along portions of Felicita Road in accordance with the City's VMT Exchange Program. While these improvements will require an off-site improvement plan, they are limited in scope, occur within the City's existing right-of-way, and may involve considerations such as traffic control and striping.

Public Services

Solid waste service to the project site is currently provided by Escondido Disposal. Under the proposed project, the site would continue to be served by Escondido Disposal.

The proposed project would be served by the Escondido Fire Department. The closest fire station to the project site is Escondido Station No. 5 located at 2319 Felicita Road, approximately 0.25 mile south of the project site.

Police protection services for the project site would be provided by the Escondido Police Department. The police station is at the Police and Fire Headquarters at 1163 North Centre City Parkway, approximately 2.75 miles northwest of the project site.

The project site is within the service boundaries of Escondido Union School District (Transitional Kindergarten-8th grade) and Escondido Union High School District (grades 9-12). The project site is within the attendance boundaries of the following schools:

- Miller Elementary School: located at 1975 Miller Avenue, approximately 50 feet to the north across Brotherton Road.
- Del Dios Academy of Arts and Sciences: located at 1400 West Ninth Avenue, approximately 1.5 miles to the northwest.
- San Pasqual High School: located at 3300 Bear Valley Parkway, approximately 2.0 miles to the southeast.

Demolition, Grading, and Construction

The total construction period for the project is estimated at approximately 25 months. Construction activities would include site preparation (clearing/grubbing), demolition, grading, installation of underground utilities, building construction, paving, and architectural coating (e.g., painting). Construction of the residential and church developments would begin concurrently but would have variations in the duration of each activity.

It is anticipated that grading would involve 71,260 cubic yards (CY) of cut and 24,760 CY of fill on the residential development site and 5,050 CY of cut and 44,400 CY of fill on the church development site, resulting in a net export of 7,150 CY of soil. Approximately 30 truckloads of debris from the residential development site and 15 truckloads of debris from the church site are anticipated to be hauled during demolition. During site preparation, approximately 10 truckloads (160 CY) of vegetation are anticipated to be hauled from the residential site and approximately five truckloads (80 CY) of vegetation are anticipated to be hauled from the church site. The maximum cut and fill slopes would be approximately 12 feet in height.