Appendices

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Air Quality and Greenhouse Gas Emissions

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Appendix A-1-Air Quality and Greenhouse Gas Emissions Methodology

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODLOGY

Sunset Vine

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August 2023

Sunset Vine Project

Air Quality and Greenhouse Gas Emissions Methodology

1. Introduction

Eyestone Environmental has been retained to conduct a comprehensive greenhouse gas (GHG) and criteria air pollutant emissions assessment for the Sunset Vine Project (the “Project”). Emissions during both construction and operation of the Project were quantified. This assessment describes the methodology used to estimate the GHG and air pollutant emissions from existing and Project conditions and describes the methodology used to quantify GHG and air pollutant emission reductions from project design features and mitigation measures.

2. Air Pollutant and Greenhouse Gas Emissions Methodology

The Project would result in direct emissions of criteria pollutants and direct and indirect GHG emissions generated by different types of emissions sources, including:[1]

- Direct Emissions:
  - Construction: emissions associated with demolition of existing uses, shoring, excavation, grading, and construction-related equipment and vehicular activity;
  - Area source: emissions associated with consumer products, architectural coatings, and landscape equipment;
  - Energy source (building operations): emissions associated with space heating and cooling, and water heating;

[1] *Direct sources of emissions include Project-related vehicular trips and onsite combustion of fossil fuels (e.g., natural gas, propane, gasoline, and diesel). Whereas, indirect sources of emissions include offsite emissions associated with purchased electricity and embodied energy (e.g., energy used to convey, treat, and distribute water and wastewater)*

  - Mobile source: emissions associated with vehicles accessing the project site; and

  - Stationary source: emissions associated with stationary equipment (e.g., emergency generators).

  - Refrigerants: fugitive GHG emissions associated with building air conditioning and refrigeration equipment.

- Indirect Emissions:

  - Energy source (building operations): emissions associated with energy consumption, and lighting;

  - Solid Waste: emissions associated with the decomposition of the waste, which generates methane based on the total amount of degradable organic carbon; and

  - Water/Wastewater: emissions associated with energy used to pump, convey, deliver, and treat water.

a. Emission Inventories

Project-related construction and operation emissions were calculated using SCAQMD's recommended California Emissions Estimator Model (CalEEMod). CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operations from a variety of land use projects. CalEEMod was developed in collaboration with the air districts of California. Data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) have been provided by the various California air districts to account for local requirements and conditions. The model is considered by the SCAQMD to be an accurate and comprehensive tool for quantifying criteria pollutant and GHG impacts from land use projects throughout California.[2]

CalEEMod utilizes widely accepted models for emission estimates combined with appropriate default data that can be used if site-specific information is not available. These models and default estimates use sources such as the USEPA AP-42 emission factors, CARB's on-road emission model (EMission FACtor model (EMFAC)) and off-road equipment emission model (Off-road Emissions Inventory Program model (OFFROAD)).

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[2] *See www.caleemod.com.*

(1) Construction

Construction activities would generate emissions from off-road equipment usage, on-road vehicle travel (truck hauling, vendor deliveries, and workers commuting), architectural coating, and paving. Each of these source types is discussed in more detail below. The Project's construction emissions were calculated using the SCAQMD recommended CalEEMod (Version 2022.1). Please refer to CalEEMod construction output files for a complete listing of construction details modeled. CalEEMod default values were used for equipment and vehicle emission factors, equipment load factors and vehicle trip lengths. It should be noted that the maximum daily emissions were predicted values for the worst-case day and do not represent the emissions that would occur for every day of Project construction. The maximum daily emissions were compared to the SCAQMD daily regional numeric indicators. Annual emissions were calculated based on the total number of hours each piece of equipment was used and the total number of vehicular trips (i.e., worker, vendor, and haul) over the duration of construction. In accordance with the SCAQMD's guidance, GHG emissions from construction were amortized over the lifetime of the Project. The SCAQMD defines the lifetime of a project as 30 years.[3] Therefore, total construction GHG emissions were divided by 30 to determine an annual construction emissions estimate comparable to operational emissions.

(a) Emissions from Construction Equipment

The emission calculations associated with construction equipment are from off-road equipment engine use based on the equipment list and phase length. Since the majority of the off-road construction equipment used for construction projects are diesel fueled, CalEEMod assumes all of the equipment operates on diesel fuel. Construction equipment emissions vary with engine model years in which newer equipment will emit fewer pollutants. As a conservative assumption, the CalEEMod model uses an emission rate for equipment which represents an average model year for available equipment within the Air Basin. CalEEMod calculates the exhaust emissions based on CARB OFFROAD methodology using the equation presented below.

<u>Construction Off-Road Equipment</u>:

Emissions Diesel [lbs] = ($\sum_i$ (EF_i x Pop_i x $AvgHP_i$ x $Load_i$ x $Activity_i$

Where: EF_i = Emission factor from OFFROAD (lbs/hr)

Pop_i = Population (quantity of same equipment)

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[3] *SCAQMD, Interim CEQA GHG Significance Threshold for Stationary Sources, Rules and Plans, 2008.*

$AvgHP_i$	=	Maximum rated average horsepower (hp)
$Load_i$	=	Load Factor (dimensionless)
$Activity_i$	=	Hours of operation (hours)
i	=	Summation index

Fugitive dust emissions from use of off-road equipment were also calculated using CalEEMod based on the types of equipment used during grading activities and based on the amount of import/export from loading or unloading dirt into haul trucks. These methods have been adapted from USEPA's AP-42 method for Western Coal Mining. As recommended by SCAQMD, the fugitive dust emissions from the grading phase are calculated using the methodology described in USEPA AP-42. PM_{10} and $PM_{2.5}$ emissions from fugitive dust will be controlled by watering the construction site three times a day consistent with SCAQMD Rule 403 and were estimated to be reduced by 74 percent.

(b) Emissions from On-Road Trips

Construction generates on-road vehicle exhaust, evaporative, and dust emissions from personal vehicles for worker commuting, vendor deliveries, and trucks for soil and material hauling. These emissions are based on the number of trips and VMT along with emission factors from EMFAC. The emissions from mobile sources were calculated with the trip rates, trip lengths and emission factors for running from EMFAC as follows:

Construction On-Road Equipment:

Emissions pollutant (lbs) = VMT * EF running, pollutant

Where: VMT = vehicle miles traveled (miles)

EF running,pollutant = emission factor for running emissions (lbs/VMT)

Evaporative emissions, starting and idling emissions in CalEEMod were calculated by multiplying the number of trips times the respective emission factor for each pollutant.

(c) Emissions from Architectural Coating

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings. CalEEMod calculates the VOC evaporative emissions from application of residential and non-residential surface coatings using the following equation:

Construction Architectural Coating Emissions:

Emissions Architectural Coatings (lbs) =EF_{AC} x F *A_{paint}

Where: EF_{AC} = Emission Factor (lb/sf)

A_{paint} = Building Surface Area (sf)

The CalEEMod tool assumes the total surface for painting equals 2.7 times the floor square footage for residential and 2 times that for nonresidential square footage. All of the land use information provided by a metric other than square footage erewill be converted to square footage using the default conversions or user defined equivalence.

F = fraction of surface area [%].

The default values based on SCAQMD methods used in their coating rules are 75 percent for the interior surfaces and 25 percent for the exterior shell. Parking areas are based on 6-percent coverage.

The emission factor (EF) is based on the VOC content of the surface coatings and is calculated estimated using the equation below:

EF_{AC} = C_{VOC}/454(g/lb) x 3.785(L/gal)/180*sf)

Where: EF = emission factor (lb/sf)

C = VOC content (g/L or gram per liter)

The emission factors for coating categories were calculated using the equation above based on default VOC content from provided by the air districts or CARB's statewide limits in CalEEMod. Architectural coating VOC emission factors are also consistent with SCAQMD Rule 1113 as discussed above.

(d) Emissions from Paving

CalEEMod estimates VOC off-gassing emissions associated with asphalt paving of parking lots using the following equation:

$Emissions_{AP}$ (lbs) = EF_{AP} x $A_{parking}$

Where: EF = emission factor (lb/acre)

A = area of the parking lot (acre)

Note: The Sacramento Metropolitan Air Quality Management District (SMAQMD) default emission factor is 2.62 lb/acre. This value is used as the default emission factor within CalEEMod

(2) Operation

Similar to construction, the SCAQMD-recommended CalEEMod was used to calculate potential emissions generated by the Project, including area source, energy sources (electricity and natural gas), mobile source, stationary sources (emergency generator), solid waste generation and disposal, water usage/wastewater generation, and refrigeration.

(3) Area Source Emissions

Area source emissions were calculated using the CalEEMod emissions inventory model, which includes consumer products, architectural coatings, and landscape maintenance equipment. Pollutant emissions generated by the Project were calculated using CalEEMod defaults, based upon the land uses that will be included in each project.

Consumer products are chemically formulated products used by household and institutional consumers, including, but not limited to, detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products; but does not include other paint products, furniture coatings, or architectural coatings. SCAQMD did an evaluation of consumer product use compared to the total square footage of buildings using data from CARB consumer product Emission Inventory. To calculate the VOC emissions from consumer product use, the following equation was used in CalEEMod:

Emissions Consumer Products (lbs) = EF_{CP} x Building Area

Where:

EF_{CP} = pounds of VOC per building square foot

The factor is 1.98 x 10^{-5} lbs/sf for SCAQMD areas.

Building Area = the total square footage of all buildings including residential square footage

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers. The operational emission methodology from architecture coating is the same as the construction methodology discussed above. All land use buildings are assumed to be repainted at a rate of 10 percent of area per year. This is based on the assumptions used by SCAQMD.

The combustion of fossil fuels to operate landscape equipment such as lawnmowers and trimmers, results in pollutant emissions. The emissions occur on-site and are considered a direct source of pollutant emissions. The emissions for landscaping equipment are based on the size of the land uses, the pollutant emission factors for fuel combustion. Pollutant emissions from landscaping equipment are generally calculated in CalEEMod as follows:

Landscaping Equipment:

Landscaping Equipment Emissions [lbs] = $(\Sigma_i (\text{Units} \times EF_{LE} \times A_{LE})_i)$

Where: Units = Number of land use units (same land use type) [1,000 sf]

EF_{LE} = Emission factor [grams (g)/1,000 sfday]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(4) Energy Emissions (Electricity and Natural Gas)

Pollutant emissions are emitted as a result of activities in buildings when electricity and natural gas are used as energy sources. Combustion of any type of fuel emits pollutant emissions directly into the atmosphere; when this occurs in a building, it is a direct emission source associated with that building. Pollutant emissions are also emitted during the generation of electricity from fossil fuels. When electricity is used in a building, the electricity generation typically takes place off-site at the power plant; electricity use in a building generally causes emissions in an indirect manner.

Energy demand emissions were calculated using the CalEEMod emissions inventory model. Energy use in buildings is divided into energy consumed by the built environment and energy consumed by uses that are independent of the construction of the building such as in plug-in appliances. CalEEMod calculates energy use from systems covered by Title 24 Building Energy Efficiency Standards (e.g., heating, ventilation, and air conditioning [HVAC] system, water heating system, and lighting system); energy use from lighting; and energy use from office equipment, appliances, plug-ins, and other sources not covered by Title 24 or lighting.

CalEEMod energy demand is based on the California Energy Commission (CEC) sponsored California Commercial End Use Survey (CEUS) study.[4] The data is specific for Electricity Demand Forecast Zones (EDFZ) and, therefore, EDFZ 16 was selected for the Project Site based on the Project's address. CalEEMod includes 2019 Title 24 Energy Efficiency Standards when calculating project energy usage.

(a) Electricity

Because power plants are existing stationary sources permitted by air districts and/or the USEPA, criteria pollutant emissions are generally associated with the power plants themselves, and not individual buildings or electricity users. Additionally, criteria pollutant emissions from power plants are subject to local, state, and federal control measures, which can be considered to be the maximum feasible level of mitigation for stack emissions. In contrast, GHG emissions from power plants are not subject to stationary source permitting requirements to the same degree as criteria pollutants. As such, GHGs emitted by power plants may be indirectly attributed to individual buildings and electricity users, who have the greatest ability to decrease usage by applying mitigation measures to individual electricity "end uses." CalEEMod therefore calculates GHG emissions (but not criteria pollutant emissions) from regional power plants associated with building electricity use.

Emissions associated with electricity demand are based on the size of the residential, commercial and retail land uses, the electrical demand factors for the land uses, the emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. Annual electricity GHG emissions in units of $MTCO_2e$ are calculated as follows:

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4 *2019 consumption estimates from the CEC's (2020, 2021) 2018–2030 Uncalibrated Commercial Sector Forecast (Commercial Forecast) and the RASS (refer to Table G-28) of Appendix G in CalEEMod User's Guide, 2022..*

Electricity:

Annual Emissions [$MTCO_2e$] = (Σ_i (Units × D_E × EF_E × GWP)$_i$) ÷ 2,204.62

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_E = Electrical demand factor [megawatt-hour (MWh)/1,000 sf/yr]

EF_E = GHG emission factor [pounds per megawatt-hour (MWh)]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

2,204.62 = Conversion factor [pounds/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

GHG emissions from electricity use are directly dependent on the electricity utility provider. The Los Angeles Department of Water and Power (LADWP) provides electric service to the Project Site. Thus, GHG intensity factors for LADWP were selected in CalEEMod. Intensity factors for GHGs due to electrical generation to serve the electrical demands of the existing condition were obtained from the LADWP 2020 Power Content Label, which provides a CO_2 intensity of 579 pounds of CO_2 per MWh for 2020. By 2030, at least 60 percent of electricity shall be obtained from renewable sources. As year-by-year data is currently not available, the CO_2 intensity factor for the Project buildout was determined based on straight line interpolation based on current and future year data points.

(b) Natural Gas

The direct source emissions associated with natural gas combustion are based on the size of the land uses and the natural gas combustion factors for the land uses in units of million British thermal units (MMBtu). Natural gas emissions are calculated in CalEEMod as follows:

Natural Gas:

$$\text{Natural Gas Emissions (lbs)} = \left(\Sigma_i \left(\text{Units} \times D_{NG} \times EF_{NG}\right)_I \right)$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_{NG} = Natural Gas combustion factor [MMBtu/1,000 sf]

EF_{NG} = Natural Gas combustion factor [pounds/MMBtu]

I = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

(c) City of Los Angeles All-Electric Ordinance

The Project would be required to comply with the City of LA's All-Electric ordinance which does not allow installation of natural gas-powered equipment (stoves, water heaters, space heating) for new construction with some exceptions. Restaurant uses would be exempt from this ordinance and be allowed to consume natural gas for cooking purposes. While this would decrease the natural gas usage for the Project, electricity usage would increase as a result.

The California Energy Commission (CEC) had conducted various energy surveys to develop energy consumption estimates for electric and natural gas end uses. Data from these surveys was used to calculate the equivalent electricity usage when switching from a natural gas end use, such as cooking, water heating and space heating.[5] As mentioned above, restaurant cooking uses are exempt from the All-Electric ordinance and were assumed to be powered by natural gas. CalEEMod by default, assumes sources typically powered by natural gas include space heating, water heating, dryers and cooking. Electricity usage rates for these sources (space heating, water heating, dryers and cooking) were obtained from the CEC 2019 RASS and Commercial Forecast to calculate equivalent electricity usage for the Project.

(5) Mobile Source Emissions

Mobile-source emissions were calculated using the CalEEMod emissions inventory model. CalEEMod calculates the emissions associated with on-road mobile sources associated with residents, employees, visitors, and delivery vehicles visiting the Project Site based on the number of daily trips generated and vehicle miles traveled (VMT). The

[5] *CAPCOA Handbook, Table E-15.1 and Table E-15.2*

Traffic Study prepared by the Fehr and Peers had calculated Project VMT which was entered into CalEEMod in calculating Project mobile source emissions.

Modeling was also conducted using the Los Angeles County vehicle fleet mix for all vehicle types as provided in EMFAC2017.

Mobile source emissions were generally calculated in CalEEMod as follows:

<u>Mobile</u>:

Mobile Emissions [lbs] = (Σ_i (Units × ADT x D_{TRIP} × EF_i)

Where:	Units	=	Number of vehicles (same vehicle model year and class)
	ADT	=	Average daily trip rate [trips/day]
	D_{TRIP}	=	Trip distance [miles/trip]
	EF	=	Pollutant emission factor [pounds per mile]
	i	=	Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

Mobile source operational emissions were calculated based on the Project VMT estimates provided by the Gibson.[6] The Los Angeles Department of Transportation (LADOT) VMT Calculator was used.

Previously, trip generation for land uses was calculated based on survey data collected by the Institute of Transportation Engineers (ITE). However, these ITE trip generation rates were based on data collected at suburban, single-use, free standing sites, which may not be representative of urban mixed-use environments. Beginning in 2019, the USEPA has sponsored a study to collect travel survey data from mixed-use developments in order provide a more representative trip generation rate for multi-use sites. Results of the USEPA survey indicate that trip generation and VMT are affected by factors such as resident and job density, availability of transit, and accessibility of biking and walking paths. Based on these factors, the USEPA has developed equations known as the EPA Mixed-

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6 *Gibson, Supplemental Transportation Assessment for the Refined Sunset Vine 2 Project Hollywood, California, March 16, 2023*

Use Development (MXD) model to calculate trip reductions for multi-use developments.[7] The LADOT VMT Calculator incorporates the USEPA MXD model and accounts for project features such as increased density and proximity to transit, which would reduce VMT and associated fuel usage in comparison to free-standing sites.

The Project design includes characteristics that would reduce trips and VMT as compared to a standard project within the air basin as measured by the air quality model (CalEEMod). While these Project characteristics primarily reduce greenhouse gas emissions, they would also reduce criteria air pollutants discussed herein. These relative reductions in vehicle trips and VMT from a standard project within the air basin help quantify the criteria air pollutant emissions reductions achieved by locating the Project in any infill, HQTA area that promotes alternative modes of transportation.

(6) Stationary Source (Emergency Generator Emissions)

Emissions of GHGs associated with use of emergency generators were calculated using CalEEMod, in which emission factors are based on Table 3.4-1 (Gaseous Emission Factors for Large Stationary Diesel Engines) from EPA's AP-42: Compilation of Air Pollutant Emission Factors. The emissions are based on the horsepower rating of the diesel generator and the number of hours operated per year for testing purposes. Annual emergency generator GHG emissions in units of $MTCO_2e$ were calculated as follows:

Emergency Generator:

Emissions [lbs] = (Total HP x LF x HR × EF)

Where: Total HP = Total horsepower of emergency generators (Hp)

LF = Load Factor (CalEEMod default of 0.73)

HR = Hours Operated per Year

EF = AP-42 Emission Factor of 1.16 lb/hp-hr)

(7) Solid Waste Emissions

The generation of municipal solid waste (MSW) from day-to-day operational activities generally consists of product packaging, grass clippings, furniture, clothing, bottles, food scraps, newspapers, plastic, and other items routinely disposed of in trash

[7] *Environmental Protection Agency, Mixed-Use Trip Generation Model. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed August 9, 2023.*

bins. A portion of the MSW is diverted to waste recycling and reclamation facilities. Waste that is not diverted is usually sent to local landfills for disposal. MSW that is disposed in landfills results in GHG emissions of CO_2 and CH_4 from the decomposition of the waste that occurs over the span of many years.

Emissions of GHGs associated with solid waste disposal were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the retail and restaurant land uses, the waste disposal rate for the land uses, the waste diversion rate, the GHG emission factors for solid waste decomposition, and the GWP values for the GHGs emitted. Annual waste disposal GHG emissions in units of $MTCO_2e$ were calculated in CalEEMod as follows:

Solid Waste:

$$\text{Annual Emissions } [MTCO_2e] = \left(\Sigma_i \left(\text{Units} \times D_{MSW} \times EF_{MSW} \times GWP\right)_i \right) \div 1.1023$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_{MSW} = Waste disposal rate [tons/1,000 sf/yr]

EF_{MSW} = GHG emission factor [tons/ton waste]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

1.1023 = Conversion factor [tons/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod allows the input of several variables to quantify solid waste emissions. The model requires the amount of waste disposed, which is the product of the waste disposal rate times the land use units. CalEEMod default annaual solid waste disposal rates used. The GHG emission factors, particularly for CH_4, depend on characteristics of the landfill, such as the presence of a landfill gas capture system and subsequent flaring or energy recovery. The default values, as provided in CalEEMod, for landfill gas capture (e.g., no capture, flaring, energy recovery), which are statewide averages, were used in this assessment. The Project includes a 76.4-percent recycling/diversion rate currently achieved within the City.[8]

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[8] *City of Los Angeles, Sustainable City pLAn, Waste & Landfills, http://plan.lamayor.org/portfolio/waste-landfills-3rd, accessed August 9, 2023.*

(8) Water Usage and Wastewater Generation Emissions

GHG emissions are related to the energy used to convey, treat, and distribute water and wastewater. Thus, these emissions are generally indirect emissions from the production of electricity to power these systems. Three processes are necessary to supply potable water and include: (1) supply and conveyance of the water from the source; (2) treatment of the water to potable standards; and (3) distribution of the water to individual users. After use, energy is used as the wastewater is treated and reused as reclaimed water.

Emissions related to water usage and wastewater generation were calculated using the CalEEMod emissions inventory model. The emissions are based on the size of the land uses, the water demand factors, the electrical intensity factors for water supply, treatment, and distribution and for wastewater treatment, the GHG emission factors for the electricity utility provider, and the GWP values for the GHGs emitted. CalEEMod default annual water demand and wastewater rates were used. GHG emissions due to electricity are calculated in CalEEMod as follows for indoor and outdoor water demand:

<u>Water Supply, Treatment, and Distribution; Wastewater Treatment (electricity)</u>:

$$\text{Annual Emissions } [MTCO_2e] = \left(\Sigma_i \left(\text{Units} \times D_W \times (EI_W \div 1{,}000) \times EF_W \times GWP\right)_i\right) \div 2{,}204.62$$

Where: Units = Number of land use units (same land use type) [1,000 sf]

D_W = Water demand factor [million gallons (Mgal)/1,000 sf/yr]

EI_W = Electricity intensity factor [kilowatt-hours (kWh)/Mgal]

1,000 = Conversion factor [kWh/MWh]

EF_W = GHG emission factor [pounds/MWh]

GWP = Global warming potential [CO_2 = 1, CH_4 = 21, N_2O = 310]

2,205 = Conversion factor [pounds/MT]

i = Summation index

Note: For residential land uses, emission factors are specified in units of dwelling units (DU) instead of 1,000 sf.

CalEEMod provides options to account for the use of water saving features such as the use of low-flow water fixtures (e.g., low-flow faucets, low-flow toilets). The same electricity GHG emissions factors discussed above were used for water and wastewater energy usage. In addition, the calculation of Project GHG emissions from water/wastewater usage accounts for a 20 percent reduction in water/wastewater emissions with implementation of CalGreen requirements.

(9) Refrigerant Emissions

The estimate the fugitive GHG emissions associated with building air conditioning (A/C) and refrigeration equipment is based on the different types of refrigeration equipment used by different types of land uses. For example, an office may use various types of A/C equipment, while a supermarket may use both A/C equipment and refrigeration equipment. All equipment that uses refrigerants has a charge size (i.e., quantity of refrigerant the equipment contains), operational and service refrigerant leak rates (from regular operation and routine servicing), and number of times serviced per lifetime. Each refrigerant has a GWP that is specific to that refrigerant. CalEEMod automatically generates a default A/C and refrigeration equipment inventory for each project land use subtype. CalEEMod quantifies refrigerant emissions from leaks during regular operation and routine servicing over the equipment lifetime and then derives average annual emissions from the lifetime estimate. Note that CalEEMod does not quantify emissions from the disposal of refrigeration and A/C equipment at the end of its lifetime.

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Appendix A-2-Air Quality Worksheets and Modeling Output Files

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Sunset Vine
Air Quality Emissions Summary

AQ SUMMARY OF EMISSIONS WINTER
Construction Emissions (Unmitigated)

Regional (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2024	3	38	35	<1	8	2
2025	5	27	61	<1	13	3
2026	4	24	58	<1	13	3
MAX	5	38	61	<1	13	3
Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Difference	**(70)**	**(62)**	**(489)**	**(150)**	**(137)**	**(52)**
Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2024		21	26		4	<1
2025		20	21		4	<1
2026		16	17		3	<1
MAX		21	26		4	<1
Threshold		70	928		9	4
Difference		**(49)**	**(902)**		**(5)**	**(3)**
Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Existing Regional Emissions (Existing Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	3	2	19	<1	4	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	4	2	21	<1	4	1
Existing Regional Emissions (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	2	16	<1	4	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	3	2	17	<1	4	1

Project Regional Emissions (Buildout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	4	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	5	3	33	<1	7	2
Emergency Generator	<1	1	1	<1	<1	<1
Total	10	5	35	<1	7	2

Incremental Regional Emissions (Project Less Existing)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	3	-<1	-<1	-<1	-<1	-<1
Energy	-<1	-<1	-<1	-<1	-<1	-<1
Mobile	3	2	17	<1	4	<1
Emergency Generator	<1	1	1	<1	<1	<1
Total	6	3	17	<1	4	<1
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(49)**	**(52)**	**(533)**	**(150)**	**(146)**	**(54)**
Impact	No	No	No	No	No	No

Project Localized (Buildout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Onsite Total		1	<1		-<1	-<1
Threshold		**70**	**928**		**2**	**1**
Difference		**(68)**	**(928)**		**(2)**	**(2)**
Impact		**No**	**No**		**No**	**No**

AQ SUMMARY OF EMISSIONS SUMMER
Construction Emissions (Unmitigated)

Regional (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2024	3	37	35	<1	8	2
2025	5	24	68	<1	13	3
2026	19	23	64	<1	13	3
MAX	19	37	68	<1	13	3
Threshold	**75**	**100**	**550**	**150**	**150**	**55**
Difference	**(56)**	**(63)**	**(482)**	**(150)**	**(137)**	**(52)**
Impact	**No**	**No**	**No**	**No**	**No**	**No**

Localized (Daily) Unmitigated	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
2024		21	26		4	<1
2025		16	17		3	<1
2026		16	17		3	<1
MAX		21	26		4	<1
Threshold		70	928		9	4
Difference		**(49)**	**(902)**		**(5)**	**(3)**
Impact		**No**	**No**		**No**	**No**

Operation Emissions (Without Project Design Features)

Existing Regional Emissions (Existing Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	2	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	3	2	21	<1	4	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	4	2	23	<1	4	1
Existing Regional Emissions (Buidout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	<1	<1	2	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	2	1	17	<1	4	<1
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	3	2	19	<1	4	1

Project Regional Emissions (Buildout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	6	<1	15	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	5	3	35	<1	7	2
Emergency Generator	<1	1	1	<1	<1	<1
Total	11	5	52	<1	7	2

Incremental Regional Emissions (Project Less Existing)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Area	5	<1	14	-<1	-<1	-<1
Energy	-<1	-<1	-<1	-<1	-<1	-<1
Mobile	3	2	18	<1	4	<1
Emergency Generator	<1	1	1	<1	<1	<1
Total	8	3	33	<1	4	<1
Threshold	**55**	**55**	**550**	**150**	**150**	**55**
Difference	**(47)**	**(52)**	**(517)**	**(150)**	**(146)**	**(54)**
Impact	No	No	No	No	No	No

Project Localized (Buildout Year)	ROG	NO_x	CO	SO2	PM_{10}	$PM_{2.5}$
Onsite Total		1	15		-<1	-<1
Threshold		**70**	**928**		**2**	**1**
Difference		**(68)**	**(913)**		**(2)**	**(2)**
Impact		**No**	**No**		**No**	**No**

Step 1. Determine Allowable Increase using 98th percentile NO2 and Max NO2 data

Central LA NO2 Monitoring Data

SRA	City	Design Value 2018-2020	98th percentile, ppb 2017	2018	2019	2020	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	56		57	56	55	100	44

SRA	City	Design Value 2006-2008	Max Hourly, ppb 2017	2018	2019	2020	Threshold (ppb)	Allowable Increase (ppb)
1	Central LA	120		70	70	62	180	60

Max Hourly vs. 98th Percentile Ratio (Allowable Increase)	**73%**

Step 2. Use ratio in Step 1 to determine LST lookup value. Extrapolate/Interpolate LST look-up value for project area

LST Threshold (SRA 1, 25 meter receptor)

Project Size (acres)	NO2 (lbs/day)	98th Percentile NO2 (lbs/day)	CO (lbs/day)	PM10 (lbs/day)	PM2.5 (lbs/day)	PM10 Ops (lbs/day)	PM2.5 Ops (lbs/day)	
1	74	54	680	5	3	2	1	
2	108	79	1048	8	5	2	2	
5	161	118	1861	16	8	4	2	
1.74	**95**	**70**	**928**	**9**	**4**	**2**	**1**	**<----Interpolated Value**

Sunset and Vine

Air Quality Analysis Assumptions

Construction Details	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls	Total Hauls
Overall Duration	**2/1/2024**	**7/24/2026**	**30**	775			
Demolition	2/1/2024	3/19/2024	2	34	30	50	1,715
Grading/Excavation	3/20/2024	6/26/2024	3	71	30	80	2,866
Parking Structure	6/27/2024	2/8/2025	7	162	130		
Building Construction	2/9/2025	4/24/2026	15	315	700		
Hardscape & Landscaping	4/25/2026	7/24/2026	3	65	50		

Site Acreage	
	1.74
Demolition Quantities	
Building Square Footage (SF)	15,436
Parking/Asphalt (SF)	
Parking (spaces)	
Import/Export Quantities during Grading	**(CY)**
Import	-
Export	40,123

Landfill Location	Distance (miles)
Vulcan Irwindale	28
Waste Management Irwindale	28

Equipment	Phase				
	Demo	Grading/ Excavation	Parking Structure	Building Construction	Hardscape & Landscaping
Air Compressor	1		1	2	1
Aerial Lift					
Bore/Drill Rig					
Cement and Mortar Mixers			3		1
Concrete/Industrial Saws	1		2	1	1
Cranes (Tower)			1	1	
Cranes (Mobile)			1	1	1
Crawler Tractors					
Crushing/Proc. Equipment					
Excavators	2	2			
Forklifts			1	2	1
Generator Sets	2	1	1	1	
Graders					
Off-Highway Tractors					
Water Truck	1	1	1	1	
Pavers					
Paving Equipment					
Pumps			1	1	1
Plate Compactors		1			1
Rollers		1			1
Rough Terrain Forklifts					
Rubber Tired Dozers					
Rubber Tired Loaders	1	2			
Scrapers					
Signal Boards	2	2	2	2	2
Skid Steer Loaders	1	1	1		1
Surfacing Equipment					
Tractors/Loaders/Backhoes	1	1			
Trenchers					
Welders	1	2	2	1	
Other ( )					
Total Pieces	13	14	17	13	11

	Construction (Sq Ft)		
Max Daily Deliveries	Residential	Non-Residential	Parking (Spaces)
90			
70			
7			

Sunset and Vine - Existing Baseline Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sunset and Vine - Existing Baseline
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	6265 Leland Way, Los Angeles, CA 90028, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4351
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	2.00	Dwelling Unit	0.13	2,120	750	—	6.00	—

High Turnover (Sit Down Restaurant)	12.8	1000sqft	0.29	12,793	1,500	—	—	—
Parking Lot	25.0	1000sqft	0.57	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	3.76	2.30	22.6	0.05	0.20	3.53	3.73	0.19	0.90	1.09	5,768
Mit.	3.76	2.30	22.6	0.05	0.20	3.53	3.73	0.19	0.90	1.09	5,547
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.61	2.48	20.6	0.04	0.20	3.53	3.73	0.19	0.90	1.09	5,574
Mit.	3.61	2.48	20.6	0.04	0.20	3.53	3.73	0.19	0.90	1.09	5,353
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.18	2.46	20.6	0.04	0.07	3.53	3.59	0.06	0.90	0.96	5,579
Mit.	3.18	2.46	20.6	0.04	0.07	3.53	3.59	0.06	0.90	0.96	5,358
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

Annual (Max)	—	—	—	—	—	—	—	—	—	—
Unmit.	0.58	0.45	3.75	0.01	0.01	0.64	0.66	0.01	0.16	0.18	924
Mit.	0.58	0.45	3.75	0.01	0.01	0.64	0.66	0.01	0.16	0.18	887
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

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	2.76	1.91	20.6	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,287
Area	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.76	2.30	22.6	0.05	0.20	3.53	3.73	0.19	0.90	1.09	5,768
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.71	2.10	19.3	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,095
Area	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.61	2.48	20.6	0.04	0.20	3.53	3.73	0.19	0.90	1.09	5,574
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.69	2.11	19.8	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,150

Area	0.46	0.01	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	5.63
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.18	2.46	20.6	0.04	0.07	3.53	3.59	0.06	0.90	0.96	5,579
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.49	0.39	3.61	0.01	0.01	0.64	0.65	< 0.005	0.16	0.17	687
Area	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	173
Water	—	—	—	—	—	—	—	—	—	—	11.8
Waste	—	—	—	—	—	—	—	—	—	—	48.0
Refrig.	—	—	—	—	—	—	—	—	—	—	3.31
Total	0.58	0.45	3.75	0.01	0.01	0.64	0.66	0.01	0.16	0.18	924

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.76	1.91	20.6	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,287
Area	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.76	2.30	22.6	0.05	0.20	3.53	3.73	0.19	0.90	1.09	5,547

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.71	2.10	19.3	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,095
Area	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.61	2.48	20.6	0.04	0.20	3.53	3.73	0.19	0.90	1.09	5,353
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.69	2.11	19.8	0.04	0.03	3.53	3.56	0.03	0.90	0.92	4,150
Area	0.46	0.01	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	5.63
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	1,042
Water	—	—	—	—	—	—	—	—	—	—	71.2
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.18	2.46	20.6	0.04	0.07	3.53	3.59	0.06	0.90	0.96	5,358
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.49	0.39	3.61	0.01	0.01	0.64	0.65	< 0.005	0.16	0.17	687
Area	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	173
Water	—	—	—	—	—	—	—	—	—	—	11.8
Waste	—	—	—	—	—	—	—	—	—	—	11.3
Refrig.	—	—	—	—	—	—	—	—	—	—	3.31
Total	0.58	0.45	3.75	0.01	0.01	0.64	0.66	0.01	0.16	0.18	887

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	594
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.2
Total	—	—	—	—	—	—	—	—	—	—	636
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	11.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	594
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.2
Total	—	—	—	—	—	—	—	—	—	—	636
Annual	—	—	—	—	—	—	—	—	—	—	—

Condo/Townho	—	—	—	—	—	—	—	—	—	—	1.86
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	98.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.17
Total	—	—	—	—	—	—	—	—	—	—	105

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	11.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	594
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.2
Total	—	—	—	—	—	—	—	—	—	—	636
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	11.3
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	594
Parking Lot	—	—	—	—	—	—	—	—	—	—	31.2
Total	—	—	—	—	—	—	—	—	—	—	636
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.86

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	98.3
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.17
Total	—	—	—	—	—	—	—	—	—	—	105

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.66

High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	64.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.1

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.66

High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	64.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.1

4.3. Area Emissions by Source

4.3.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.01	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.60
Total	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64

Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.29
Total	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93

4.3.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.01	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.60
Total	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64

Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.29
Total	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.43
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	71.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.43
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	71.2
Annual	—	—	—	—	—	—	—	—	—	—	—

Condo/Townho	—	—	—	—	—	—	—	—	—	—	0.24
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.8

4.4.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.43
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	71.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.43
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	69.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	71.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	0.24

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.8

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	2.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	287
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	2.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	287
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	290
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.47

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	47.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	48.0

4.5.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.67
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	67.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	68.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.67
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	67.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.11

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.3

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	< 0.005

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	3.31

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	< 0.005
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	3.31

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	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.6. 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	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
Total all Land Uses	766	766	766	279,590	4,976	4,976	4,976	1,816,240

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	766	766	766	279,590	4,976	4,976	4,976	1,816,240

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	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)
4293	1,431	19,190	6,397	1,500

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Condo/Townhouse	7,895	517	0.0489	0.0069	50,074
High Turnover (Sit Down Restaurant)	416,669	517	0.0489	0.0069	1,211,876
Parking Lot	21,900	517	0.0489	0.0069	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO_2 and CH_4 and N_2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	7,895	517	0.0489	0.0069	50,074
High Turnover (Sit Down Restaurant)	416,669	517	0.0489	0.0069	1,211,876
Parking Lot	21,900	517	0.0489	0.0069	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	74,548	12,856
High Turnover (Sit Down Restaurant)	3,883,107	21,037
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	74,548	12,856
High Turnover (Sit Down Restaurant)	3,883,107	21,037
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	1.50	—
High Turnover (Sit Down Restaurant)	152	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	0.35	—
High Turnover (Sit Down Restaurant)	35.9	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.18.1.2. 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	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	59.7
AQ-PM	77.2
AQ-DPM	98.1
Drinking Water	92.5
Lead Risk Housing	68.0
Pesticides	0.00
Toxic Releases	72.2
Traffic	66.2
Effect Indicators	—
CleanUp Sites	77.0
Groundwater	73.5
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	60.2
Cardio-vascular	54.9
Low Birth Weights	93.7
Socioeconomic Factor Indicators	—

Education	55.8
Housing	67.7
Linguistic	96.0
Poverty	95.1
Unemployment	98.4

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	7.160272039
Employed	33.54292314
Median HI	0.61593738
Education	—
Bachelor's or higher	59.70742974
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	0.949570127
Active commuting	95.70127037
Social	—
2-parent households	5.594764532
Voting	22.44321827
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	98.37033235

Supermarket access	94.25125112
Tree canopy	25.47157706
Housing	—
Homeownership	3.015526755
Housing habitability	16.14269216
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	54.95957911
Uncrowded housing	24.00872578
Health Outcomes	—
Insured adults	31.56679071
Arthritis	18.8
Asthma ER Admissions	42.0
High Blood Pressure	13.8
Cancer (excluding skin)	32.7
Asthma	32.2
Coronary Heart Disease	4.7
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	83.7
Cognitively Disabled	41.3
Physically Disabled	21.0
Heart Attack ER Admissions	47.6
Mental Health Not Good	27.8
Chronic Kidney Disease	10.6
Obesity	27.3
Pedestrian Injuries	65.9
Physical Health Not Good	17.0

Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	75.2
Current Smoker	28.0
No Leisure Time for Physical Activity	27.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	8.1
English Speaking	1.3
Foreign-born	95.9
Outdoor Workers	54.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	5.6
Traffic Density	86.9
Traffic Access	87.4
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	11.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	95.0
Healthy Places Index Score for Project Location (b)	18.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2023

Sunset and Vine - Existing Buildout Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sunset and Vine - Existing Buildout
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	6265 Leland Way, Los Angeles, CA 90028, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4351
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Condo/Townhouse	2.00	Dwelling Unit	0.13	2,120	750	—	6.00	—

High Turnover (Sit Down Restaurant)	12.8	1000sqft	0.29	12,793	1,500	—	—	—
Parking Lot	25.0	1000sqft	0.57	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	3.36	1.88	19.1	0.04	0.19	3.53	3.72	0.19	0.90	1.09	5,381
Mit.	3.36	1.88	19.1	0.04	0.19	3.53	3.72	0.19	0.90	1.09	5,160
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.22	2.02	17.3	0.04	0.19	3.53	3.72	0.19	0.90	1.08	5,205
Mit.	3.22	2.02	17.3	0.04	0.19	3.53	3.72	0.19	0.90	1.08	4,983
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.79	2.00	17.2	0.04	0.06	3.53	3.59	0.06	0.90	0.95	5,204
Mit.	2.79	2.00	17.2	0.04	0.06	3.53	3.59	0.06	0.90	0.95	4,982
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.51	0.36	3.14	0.01	0.01	0.64	0.65	0.01	0.16	0.17	862
Mit.	0.51	0.36	3.14	0.01	0.01	0.64	0.65	0.01	0.16	0.17	825
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

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	2.36	1.50	17.1	0.04	0.02	3.53	3.55	0.02	0.90	0.92	3,985
Area	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.36	1.88	19.1	0.04	0.19	3.53	3.72	0.19	0.90	1.09	5,381
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.32	1.64	16.0	0.04	0.03	3.53	3.55	0.02	0.90	0.92	3,811
Area	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.22	2.02	17.3	0.04	0.19	3.53	3.72	0.19	0.90	1.08	5,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.31	1.65	16.4	0.04	0.02	3.53	3.55	0.02	0.90	0.92	3,861

Area	0.46	0.01	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	5.63
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	290
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	2.79	2.00	17.2	0.04	0.06	3.53	3.59	0.06	0.90	0.95	5,204
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.42	0.30	2.99	0.01	< 0.005	0.64	0.65	< 0.005	0.16	0.17	639
Area	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	159
Water	—	—	—	—	—	—	—	—	—	—	11.0
Waste	—	—	—	—	—	—	—	—	—	—	48.0
Refrig.	—	—	—	—	—	—	—	—	—	—	3.31
Total	0.51	0.36	3.14	0.01	0.01	0.64	0.65	0.01	0.16	0.17	862

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.36	1.50	17.1	0.04	0.02	3.53	3.55	0.02	0.90	0.92	3,985
Area	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.36	1.88	19.1	0.04	0.19	3.53	3.72	0.19	0.90	1.09	5,160

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.32	1.64	16.0	0.04	0.03	3.53	3.55	0.02	0.90	0.92	3,811
Area	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	3.22	2.02	17.3	0.04	0.19	3.53	3.72	0.19	0.90	1.08	4,983
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.31	1.65	16.4	0.04	0.02	3.53	3.55	0.02	0.90	0.92	3,861
Area	0.46	0.01	0.53	< 0.005	0.01	—	0.01	0.01	—	0.01	5.63
Energy	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	961
Water	—	—	—	—	—	—	—	—	—	—	66.3
Waste	—	—	—	—	—	—	—	—	—	—	68.4
Refrig.	—	—	—	—	—	—	—	—	—	—	20.0
Total	2.79	2.00	17.2	0.04	0.06	3.53	3.59	0.06	0.90	0.95	4,982
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.42	0.30	2.99	0.01	< 0.005	0.64	0.65	< 0.005	0.16	0.17	639
Area	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	159
Water	—	—	—	—	—	—	—	—	—	—	11.0
Waste	—	—	—	—	—	—	—	—	—	—	11.3
Refrig.	—	—	—	—	—	—	—	—	—	—	3.31
Total	0.51	0.36	3.14	0.01	0.01	0.64	0.65	0.01	0.16	0.17	825

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	9.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	519
Parking Lot	—	—	—	—	—	—	—	—	—	—	27.3
Total	—	—	—	—	—	—	—	—	—	—	556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	9.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	519
Parking Lot	—	—	—	—	—	—	—	—	—	—	27.3
Total	—	—	—	—	—	—	—	—	—	—	556
Annual	—	—	—	—	—	—	—	—	—	—	—

Condo/Townho	—	—	—	—	—	—	—	—	—	—	1.63
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.51
Total	—	—	—	—	—	—	—	—	—	—	92.0

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	9.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	519
Parking Lot	—	—	—	—	—	—	—	—	—	—	27.3
Total	—	—	—	—	—	—	—	—	—	—	556
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	9.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	519
Parking Lot	—	—	—	—	—	—	—	—	—	—	27.3
Total	—	—	—	—	—	—	—	—	—	—	556
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.63

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.51
Total	—	—	—	—	—	—	—	—	—	—	92.0

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.66

High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	64.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.1

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	16.1
High Turnover (Sit Down Restaurant)	0.02	0.33	0.27	< 0.005	0.02	—	0.02	0.02	—	0.02	389
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.34	0.28	< 0.005	0.03	—	0.03	0.03	—	0.03	406
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.66

High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	64.5
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	67.1

4.3. Area Emissions by Source

4.3.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.01	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.60
Total	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64

Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.29
Total	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93

4.3.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.10	0.01	0.67	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	2.60
Total	0.98	0.05	1.69	< 0.005	0.14	—	0.14	0.14	—	0.14	58.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.52	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Consumer Products	0.32	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.04	—	—	—	—	—	—	—	—	—	—
Total	0.88	0.04	1.02	< 0.005	0.14	—	0.14	0.14	—	0.14	56.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.01	< 0.005	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.64

Consumer Products	0.06	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.01	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	< 0.005	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.29
Total	0.08	< 0.005	0.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.93

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.33
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	65.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	66.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	1.33
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	65.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	66.3
Annual	—	—	—	—	—	—	—	—	—	—	—

Condo/Townho	—	—	—	—	—	—	—	—	—	—	0.22
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	10.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.0

4.4.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.33
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	65.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	66.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	1.33
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	65.0
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	66.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	0.22

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	10.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.0

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	2.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	287
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	290
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	2.83
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	287
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	290
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	0.47

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	47.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	48.0

4.5.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.67
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	67.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	68.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.67
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	67.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	68.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.11

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	11.3

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)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townho use	—	—	—	—	—	—	—	—	—	—	< 0.005

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	3.31

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	20.0
Total	—	—	—	—	—	—	—	—	—	—	20.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	< 0.005
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	3.31

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	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.6. 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	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
Total all Land Uses	766	766	766	279,590	4,976	4,976	4,976	1,816,240

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	766	766	766	279,590	4,976	4,976	4,976	1,816,240

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	2
Propane Fireplaces	0

Electric Fireplaces	0
No Fireplaces	0
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	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)
4293	1,431	19,190	6,397	1,500

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

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

Condo/Townhouse	7,895	451	0.0489	0.0069	50,074
High Turnover (Sit Down Restaurant)	416,669	451	0.0489	0.0069	1,211,876
Parking Lot	21,900	451	0.0489	0.0069	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	7,895	451	0.0489	0.0069	50,074
High Turnover (Sit Down Restaurant)	416,669	451	0.0489	0.0069	1,211,876
Parking Lot	21,900	451	0.0489	0.0069	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	74,548	12,856
High Turnover (Sit Down Restaurant)	3,883,107	21,037
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	74,548	12,856
High Turnover (Sit Down Restaurant)	3,883,107	21,037
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	1.50	—
High Turnover (Sit Down Restaurant)	152	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	0.35	—
High Turnover (Sit Down Restaurant)	35.9	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Condo/Townhouse	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

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

5.15.2. Mitigated

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

5.18.1.2. 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	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	59.7
AQ-PM	77.2
AQ-DPM	98.1
Drinking Water	92.5
Lead Risk Housing	68.0
Pesticides	0.00
Toxic Releases	72.2
Traffic	66.2
Effect Indicators	—
CleanUp Sites	77.0
Groundwater	73.5
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	60.2
Cardio-vascular	54.9
Low Birth Weights	93.7
Socioeconomic Factor Indicators	—

Education	55.8
Housing	67.7
Linguistic	96.0
Poverty	95.1
Unemployment	98.4

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	7.160272039
Employed	33.54292314
Median HI	0.61593738
Education	—
Bachelor's or higher	59.70742974
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	0.949570127
Active commuting	95.70127037
Social	—
2-parent households	5.594764532
Voting	22.44321827
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	98.37033235

Supermarket access	94.25125112
Tree canopy	25.47157706
Housing	—
Homeownership	3.015526755
Housing habitability	16.14269216
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	54.95957911
Uncrowded housing	24.00872578
Health Outcomes	—
Insured adults	31.56679071
Arthritis	18.8
Asthma ER Admissions	42.0
High Blood Pressure	13.8
Cancer (excluding skin)	32.7
Asthma	32.2
Coronary Heart Disease	4.7
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	83.7
Cognitively Disabled	41.3
Physically Disabled	21.0
Heart Attack ER Admissions	47.6
Mental Health Not Good	27.8
Chronic Kidney Disease	10.6
Obesity	27.3
Pedestrian Injuries	65.9
Physical Health Not Good	17.0

Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	75.2
Current Smoker	28.0
No Leisure Time for Physical Activity	27.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	8.1
English Speaking	1.3
Foreign-born	95.9
Outdoor Workers	54.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	5.6
Traffic Density	86.9
Traffic Access	87.4
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	11.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	95.0
Healthy Places Index Score for Project Location (b)	18.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2023

Sunset and Vine - Construction Onsite Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sunset and Vine - Construction Onsite
Construction Start Date	2/1/2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	6265 Leland Way, Los Angeles, CA 90028, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4351
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	170	Dwelling Unit	1.74	163,200	2,269	0.00	383	—

High Turnover (Sit Down Restaurant)	16.7	1000sqft	0.00	16,680	0.00	0.00	—	—
Enclosed Parking with Elevator	284	Space	2.56	113,600	0.00	0.00	—	—
Other Non-Asphalt Surfaces	17.2	1000sqft	0.40	0.00	0.00	0.00	—	—
Recreational Swimming Pool	0.60	1000sqft	0.01	600	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	16.6	20.8	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,107
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.27	20.9	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,111
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.01	12.8	14.9	0.03	0.48	1.91	2.39	0.44	0.19	0.63	2,469
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—

Unmit.	0.73	2.33	2.71	< 0.005	0.09	0.35	0.44	0.08	0.04	0.12	409

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	2.28	20.8	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,107
2025	1.79	16.3	16.9	0.03	0.57	2.48	3.05	0.53	0.25	0.78	2,997
2026	16.6	15.6	16.8	0.03	0.52	2.48	3.00	0.48	0.25	0.73	2,991
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	20.9	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,111
2025	2.15	20.0	20.8	0.04	0.66	3.19	3.84	0.61	0.32	0.92	3,618
2026	1.71	15.7	16.9	0.03	0.52	2.48	3.00	0.48	0.25	0.73	2,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	1.43	12.8	14.9	0.03	0.48	1.91	2.39	0.44	0.19	0.63	2,469
2025	1.30	11.9	12.4	0.02	0.42	1.82	2.24	0.38	0.18	0.57	2,189
2026	4.01	5.40	5.83	0.01	0.18	0.60	0.78	0.17	0.06	0.23	1,070
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.26	2.33	2.71	< 0.005	0.09	0.35	0.44	0.08	0.04	0.12	409
2025	0.24	2.18	2.26	< 0.005	0.08	0.33	0.41	0.07	0.03	0.10	362
2026	0.73	0.99	1.06	< 0.005	0.03	0.11	0.14	0.03	0.01	0.04	177

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	2.28	20.8	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,107
2025	1.79	16.3	16.9	0.03	0.57	2.48	3.05	0.53	0.25	0.78	2,997
2026	16.6	15.6	16.8	0.03	0.52	2.48	3.00	0.48	0.25	0.73	2,991
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	2.27	20.9	25.8	0.04	0.75	3.19	3.92	0.69	0.32	0.99	4,111
2025	2.15	20.0	20.8	0.04	0.66	3.19	3.84	0.61	0.32	0.92	3,618
2026	1.71	15.7	16.9	0.03	0.52	2.48	3.00	0.48	0.25	0.73	2,995
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	1.43	12.8	14.9	0.03	0.48	1.91	2.39	0.44	0.19	0.63	2,469
2025	1.30	11.9	12.4	0.02	0.42	1.82	2.24	0.38	0.18	0.57	2,189
2026	4.01	5.40	5.83	0.01	0.18	0.60	0.78	0.17	0.06	0.23	1,070
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.26	2.33	2.71	< 0.005	0.09	0.35	0.44	0.08	0.04	0.12	409
2025	0.24	2.18	2.26	< 0.005	0.08	0.33	0.41	0.07	0.03	0.10	362
2026	0.73	0.99	1.06	< 0.005	0.03	0.11	0.14	0.03	0.01	0.04	177

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

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

Off-Road Equipment	1.86	15.2	22.0	0.04	0.68	—	0.68	0.62	—	0.62	3,423
Demolition	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—
Onsite truck	0.06	1.50	1.10	< 0.005	< 0.005	1.77	1.77	< 0.005	0.18	0.18	204
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.42	2.05	< 0.005	0.06	—	0.06	0.06	—	0.06	319
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	18.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	52.8
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.2. Demolition (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.86	15.2	22.0	0.04	0.68	—	0.68	0.62	—	0.62	3,423
Demolition	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—
Onsite truck	0.06	1.50	1.10	< 0.005	< 0.005	1.77	1.77	< 0.005	0.18	0.18	204
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.42	2.05	< 0.005	0.06	—	0.06	0.06	—	0.06	319
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	18.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	52.8
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.3. Grading (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.10	2.29	1.70	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—

Onsite truck	0.09	2.40	1.76	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	326
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	3.11	4.68	0.01	0.15	—	0.15	0.13	—	0.13	736
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.02	0.46	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.57	0.85	< 0.005	0.03	—	0.03	0.02	—	0.02	122
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.4. Grading (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.10	2.29	1.70	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.09	2.40	1.76	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	326
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	3.11	4.68	0.01	0.15	—	0.15	0.13	—	0.13	736
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—

Onsite truck	0.02	0.46	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.57	0.85	< 0.005	0.03	—	0.03	0.02	—	0.02	122
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.5. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.12	2.58	1.92	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.10	2.70	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	367
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	6.69	6.98	0.01	0.27	—	0.27	0.25	—	0.25	1,197
Onsite truck	0.04	0.97	0.71	< 0.005	< 0.005	1.17	1.17	< 0.005	0.12	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.22	1.27	< 0.005	0.05	—	0.05	0.05	—	0.05	198
Onsite truck	0.01	0.18	0.13	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	22.2
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.6. Building Construction (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.12	2.58	1.92	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.10	2.70	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	367
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	6.69	6.98	0.01	0.27	—	0.27	0.25	—	0.25	1,197
Onsite truck	0.04	0.97	0.71	< 0.005	< 0.005	1.17	1.17	< 0.005	0.12	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.15	1.22	1.27	< 0.005	0.05	—	0.05	0.05	—	0.05	198
Onsite truck	0.01	0.18	0.13	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	22.2
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.7. Building Construction (2025) - Unmitigated

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

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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.05	17.3	18.8	0.04	0.66	—	0.66	0.60	—	0.60	3,254
Onsite truck	0.10	2.68	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	361
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.32	1.44	< 0.005	0.05	—	0.05	0.05	—	0.05	248
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.24	0.24	< 0.005	0.02	0.02	27.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	41.1
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.53
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.8. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.05	17.3	18.8	0.04	0.66	—	0.66	0.60	—	0.60	3,254
Onsite truck	0.10	2.68	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	361
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.32	1.44	< 0.005	0.05	—	0.05	0.05	—	0.05	248
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.24	0.24	< 0.005	0.02	0.02	27.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	41.1
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.53
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.9. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.09	1.99	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.08	2.08	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	281
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.85	0.02	0.37	—	0.37	0.34	—	0.34	1,733
Onsite truck	0.06	1.30	0.96	< 0.005	< 0.005	1.58	1.58	< 0.005	0.16	0.16	178
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.66	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	287
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	29.4

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.10. Building Construction (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.09	1.99	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.08	2.08	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	281
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.85	0.02	0.37	—	0.37	0.34	—	0.34	1,733
Onsite truck	0.06	1.30	0.96	< 0.005	< 0.005	1.58	1.58	< 0.005	0.16	0.16	178
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.66	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	287
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	29.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vendor	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

3.11. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.09	1.97	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.08	2.06	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	3.05	3.42	0.01	0.12	—	0.12	0.11	—	0.11	606
Onsite truck	0.02	0.45	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	61.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.56	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	100
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.1
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.12. Building Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.09	1.97	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.08	2.06	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	3.05	3.42	0.01	0.12	—	0.12	0.11	—	0.11	606
Onsite truck	0.02	0.45	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	61.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.56	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	100
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.1
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.13. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	10.5	11.5	0.02	0.38	—	0.38	0.35	—	0.35	2,230
Paving	0.10	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	27.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.87	2.05	< 0.005	0.07	—	0.07	0.06	—	0.06	397
Paving	0.02	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	65.7
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.81
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.14. Paving (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	10.5	11.5	0.02	0.38	—	0.38	0.35	—	0.35	2,230
Paving	0.10	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	27.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.87	2.05	< 0.005	0.07	—	0.07	0.06	—	0.06	397
Paving	0.02	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.34	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	65.7
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.81
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.15. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	14.9	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.39	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.16. Architectural Coating (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	14.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.39	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

4. Operations Emissions Details

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

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

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

Total	—	—	—	—	—	—	—	—	—	—	—

4.10.6. 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	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	2/1/2024	3/19/2024	5.00	34.0	—
Grading	Grading	3/20/2024	6/26/2024	5.00	71.0	—
Parking Structure	Building Construction	6/27/2024	2/8/2025	5.00	162	—
Building Construction	Building Construction	2/9/2025	4/24/2026	5.00	315	—
Paving	Paving	4/25/2026	7/24/2026	5.00	65.0	—
Architectural Coating	Architectural Coating	4/1/2026	7/24/2026	5.00	83.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

Demolition	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Parking Structure	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Parking Structure	Cement and Mortar Mixers	Diesel	Average	3.00	8.00	10.0	0.56
Parking Structure	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73
Parking Structure	Cranes	Electric	Average	1.00	8.00	367	0.29
Parking Structure	Cranes	Diesel	Average	1.00	8.00	367	0.29
Parking Structure	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Parking Structure	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Parking Structure	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Parking Structure	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Parking Structure	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82

Parking Structure	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Parking Structure	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.2.2. Mitigated

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

Demolition	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Parking Structure	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Parking Structure	Cement and Mortar Mixers	Diesel	Average	3.00	8.00	10.0	0.56
Parking Structure	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73

Parking Structure	Cranes	Electric	Average	1.00	8.00	367	0.29
Parking Structure	Cranes	Diesel	Average	1.00	8.00	367	0.29
Parking Structure	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Parking Structure	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Parking Structure	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Parking Structure	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Parking Structure	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Parking Structure	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Parking Structure	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20

Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	0.00	28.0	HHDT
Demolition	Onsite truck	100	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	28.0	HHDT
Grading	Onsite truck	160	0.05	HHDT
Parking Structure	—	—	—	—
Parking Structure	Worker	0.00	18.5	LDA,LDT1,LDT2
Parking Structure	Vendor	0.00	10.2	HHDT,MHDT
Parking Structure	Hauling	0.00	20.0	HHDT
Parking Structure	Onsite truck	180	0.05	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2

Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	14.0	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	140	0.05	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	0.00	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	0.00	28.0	HHDT
Demolition	Onsite truck	100	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	28.0	HHDT
Grading	Onsite truck	160	0.05	HHDT
Parking Structure	—	—	—	—

Parking Structure	Worker	0.00	18.5	LDA,LDT1,LDT2
Parking Structure	Vendor	0.00	10.2	HHDT,MHDT
Parking Structure	Hauling	0.00	20.0	HHDT
Parking Structure	Onsite truck	180	0.05	HHDT
Paving	—	—	—	—
Paving	Worker	0.00	18.5	LDA,LDT1,LDT2
Paving	Vendor	0.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	14.0	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	0.00	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	140	0.05	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	330,480	110,160	30,030	8,897	7,713

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	15,436	—
Grading	0.00	40,123	0.00	0.00	—
Paving	0.00	0.00	0.00	0.00	2.95

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Enclosed Parking with Elevator	2.56	100%
Other Non-Asphalt Surfaces	0.40	0%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	1,270	690	0.05	0.01
2024	635	690	0.05	0.01
2026	635	690	0.05	0.01

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	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	59.7
AQ-PM	77.2
AQ-DPM	98.1
Drinking Water	92.5
Lead Risk Housing	68.0
Pesticides	0.00
Toxic Releases	72.2
Traffic	66.2
Effect Indicators	—
CleanUp Sites	77.0
Groundwater	73.5
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	60.2
Cardio-vascular	54.9
Low Birth Weights	93.7
Socioeconomic Factor Indicators	—

Education	55.8
Housing	67.7
Linguistic	96.0
Poverty	95.1
Unemployment	98.4

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	7.160272039
Employed	33.54292314
Median HI	0.61593738
Education	—
Bachelor's or higher	59.70742974
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	0.949570127
Active commuting	95.70127037
Social	—
2-parent households	5.594764532
Voting	22.44321827
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	98.37033235

Supermarket access	94.25125112
Tree canopy	25.47157706
Housing	—
Homeownership	3.015526755
Housing habitability	16.14269216
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	54.95957911
Uncrowded housing	24.00872578
Health Outcomes	—
Insured adults	31.56679071
Arthritis	18.8
Asthma ER Admissions	42.0
High Blood Pressure	13.8
Cancer (excluding skin)	32.7
Asthma	32.2
Coronary Heart Disease	4.7
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	83.7
Cognitively Disabled	41.3
Physically Disabled	21.0
Heart Attack ER Admissions	47.6
Mental Health Not Good	27.8
Chronic Kidney Disease	10.6
Obesity	27.3
Pedestrian Injuries	65.9
Physical Health Not Good	17.0

Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	75.2
Current Smoker	28.0
No Leisure Time for Physical Activity	27.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	8.1
English Speaking	1.3
Foreign-born	95.9
Outdoor Workers	54.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	5.6
Traffic Density	86.9
Traffic Access	87.4
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	11.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	95.0
Healthy Places Index Score for Project Location (b)	18.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2026 SB 100
Land Use	Site Specific
Construction: Construction Phases	Site Specific
Construction: Off-Road Equipment	Site Specific
Construction: Trips and VMT	Site Specific
Operations: Hearths	No Hearths
Operations: Energy Use	All Electric except restaurant cooking

Sunset and Vine - Project Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sunset and Vine - Project
Construction Start Date	2/1/2024
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	6265 Leland Way, Los Angeles, CA 90028, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4351
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

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

Apartments Mid Rise	170	Dwelling Unit	1.74	163,200	2,269	0.00	383	—
High Turnover (Sit Down Restaurant)	16.7	1000sqft	0.00	16,680	0.00	0.00	—	—
Enclosed Parking with Elevator	284	Space	2.56	113,600	0.00	0.00	—	—
Other Non-Asphalt Surfaces	17.2	1000sqft	0.40	0.00	0.00	0.00	—	—
Recreational Swimming Pool	0.60	1000sqft	0.01	600	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	19.3	37.3	68.1	0.14	0.95	12.8	13.5	0.89	2.72	3.28	21,025
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.88	38.1	60.8	0.14	0.95	12.8	13.5	0.89	2.72	3.28	20,975
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.64	20.8	42.5	0.07	0.56	8.60	9.06	0.52	1.81	2.21	11,756

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.85	3.79	7.75	0.01	0.10	1.57	1.65	0.10	0.33	0.40	1,946

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	3.04	37.3	35.0	0.14	0.95	7.38	8.33	0.89	1.51	2.40	21,025
2025	4.92	24.3	68.1	0.06	0.64	12.8	13.5	0.56	2.72	3.28	17,465
2026	19.3	23.2	64.4	0.06	0.58	12.8	13.4	0.51	2.72	3.23	17,183
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	3.02	38.1	34.6	0.14	0.95	7.38	8.33	0.89	1.51	2.40	20,975
2025	4.88	27.4	60.8	0.08	0.74	12.8	13.5	0.65	2.72	3.28	16,924
2026	4.39	23.8	57.8	0.06	0.58	12.8	13.4	0.51	2.72	3.23	16,654
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	1.81	20.8	21.6	0.07	0.56	4.25	4.81	0.52	0.80	1.33	9,638
2025	3.33	18.2	42.5	0.05	0.46	8.60	9.06	0.41	1.81	2.21	11,756
2026	4.64	7.40	15.9	0.02	0.20	3.02	3.22	0.18	0.64	0.82	4,350
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.33	3.79	3.95	0.01	0.10	0.77	0.88	0.10	0.15	0.24	1,596
2025	0.61	3.32	7.75	0.01	0.08	1.57	1.65	0.07	0.33	0.40	1,946
2026	0.85	1.35	2.91	< 0.005	0.04	0.55	0.59	0.03	0.12	0.15	720

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	3.04	37.3	35.0	0.14	0.95	7.38	8.33	0.89	1.51	2.40	21,025
2025	4.92	24.3	68.1	0.06	0.64	12.8	13.5	0.56	2.72	3.28	17,465
2026	19.3	23.2	64.4	0.06	0.58	12.8	13.4	0.51	2.72	3.23	17,183
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2024	3.02	38.1	34.6	0.14	0.95	7.38	8.33	0.89	1.51	2.40	20,975
2025	4.88	27.4	60.8	0.08	0.74	12.8	13.5	0.65	2.72	3.28	16,924
2026	4.39	23.8	57.8	0.06	0.58	12.8	13.4	0.51	2.72	3.23	16,654
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2024	1.81	20.8	21.6	0.07	0.56	4.25	4.81	0.52	0.80	1.33	9,638
2025	3.33	18.2	42.5	0.05	0.46	8.60	9.06	0.41	1.81	2.21	11,756
2026	4.64	7.40	15.9	0.02	0.20	3.02	3.22	0.18	0.64	0.82	4,350
Annual	—	—	—	—	—	—	—	—	—	—	—
2024	0.33	3.79	3.95	0.01	0.10	0.77	0.88	0.10	0.15	0.24	1,596
2025	0.61	3.32	7.75	0.01	0.08	1.57	1.65	0.07	0.33	0.40	1,946
2026	0.85	1.35	2.91	< 0.005	0.04	0.55	0.59	0.03	0.12	0.15	720

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.	11.9	6.36	53.4	0.09	0.23	7.15	7.39	0.23	1.82	2.05	12,324
Mit.	11.9	6.36	53.4	0.09	0.23	7.15	7.39	0.23	1.82	2.05	11,857
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.1	6.51	35.9	0.08	0.22	7.15	7.37	0.22	1.82	2.03	11,924
Mit.	10.1	6.51	35.9	0.08	0.22	7.15	7.37	0.22	1.82	2.03	11,457
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	10.8	5.38	46.0	0.08	0.16	7.15	7.32	0.16	1.82	1.98	11,829
Mit.	10.8	5.38	46.0	0.08	0.16	7.15	7.32	0.16	1.82	1.98	11,362
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.97	0.98	8.39	0.01	0.03	1.31	1.34	0.03	0.33	0.36	1,958
Mit.	1.97	0.98	8.39	0.01	0.03	1.31	1.34	0.03	0.33	0.36	1,881
% Reduced	—	—	—	—	—	—	—	—	—	—	4%

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	4.94	3.15	35.3	0.08	0.05	7.15	7.21	0.05	1.82	1.87	8,160
Area	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	11.9	6.36	53.4	0.09	0.23	7.15	7.39	0.23	1.82	2.05	12,324

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.87	3.44	33.1	0.08	0.05	7.15	7.21	0.05	1.82	1.87	7,809
Area	4.20	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	10.1	6.51	35.9	0.08	0.22	7.15	7.37	0.22	1.82	2.03	11,924
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.84	3.47	33.8	0.08	0.05	7.15	7.21	0.05	1.82	1.87	7,909
Area	5.42	0.10	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	33.8
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	277
Total	10.8	5.38	46.0	0.08	0.16	7.15	7.32	0.16	1.82	1.98	11,829
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.63	6.18	0.01	0.01	1.31	1.32	0.01	0.33	0.34	1,309
Area	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	468
Water	—	—	—	—	—	—	—	—	—	—	32.0
Waste	—	—	—	—	—	—	—	—	—	—	92.9
Refrig.	—	—	—	—	—	—	—	—	—	—	4.51
Stationary	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	1.97	0.98	8.39	0.01	0.03	1.31	1.34	0.03	0.33	0.36	1,958

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.94	3.15	35.3	0.08	0.05	7.15	7.21	0.05	1.82	1.87	8,160
Area	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155
Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	11.9	6.36	53.4	0.09	0.23	7.15	7.39	0.23	1.82	2.05	11,857
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.87	3.44	33.1	0.08	0.05	7.15	7.21	0.05	1.82	1.87	7,809
Area	4.20	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155
Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	10.1	6.51	35.9	0.08	0.22	7.15	7.37	0.22	1.82	2.03	11,457
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.84	3.47	33.8	0.08	0.05	7.15	7.21	0.05	1.82	1.87	7,909
Area	5.42	0.10	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	33.8
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155

Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	277
Total	10.8	5.38	46.0	0.08	0.16	7.15	7.32	0.16	1.82	1.98	11,362
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.63	6.18	0.01	0.01	1.31	1.32	0.01	0.33	0.34	1,309
Area	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	468
Water	—	—	—	—	—	—	—	—	—	—	25.6
Waste	—	—	—	—	—	—	—	—	—	—	21.9
Refrig.	—	—	—	—	—	—	—	—	—	—	4.51
Stationary	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	1.97	0.98	8.39	0.01	0.03	1.31	1.34	0.03	0.33	0.36	1,881

3. Construction Emissions Details

3.1. Demolition (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.86	15.2	22.0	0.04	0.68	—	0.68	0.62	—	0.62	3,423
Demolition	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—
Onsite truck	0.06	1.50	1.10	< 0.005	< 0.005	1.77	1.77	< 0.005	0.18	0.18	204

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.42	2.05	< 0.005	0.06	—	0.06	0.06	—	0.06	319
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	18.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	52.8
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.17	1.91	0.00	0.00	0.39	0.39	0.00	0.09	0.09	406
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.18	12.2	4.30	0.06	0.12	2.60	2.72	0.12	0.71	0.83	10,286
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.5
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.16	0.40	0.01	0.01	0.24	0.25	0.01	0.07	0.08	959
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.21	0.07	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	159

3.2. Demolition (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.86	15.2	22.0	0.04	0.68	—	0.68	0.62	—	0.62	3,423
Demolition	—	—	—	—	—	0.27	0.27	—	0.04	0.04	—
Onsite truck	0.06	1.50	1.10	< 0.005	< 0.005	1.77	1.77	< 0.005	0.18	0.18	204
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.17	1.42	2.05	< 0.005	0.06	—	0.06	0.06	—	0.06	319
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—
Onsite truck	0.01	0.14	0.10	< 0.005	< 0.005	0.16	0.16	< 0.005	0.02	0.02	18.8
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	52.8
Demolition	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	0.03	0.03	< 0.005	< 0.005	< 0.005	3.12
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.17	1.91	0.00	0.00	0.39	0.39	0.00	0.09	0.09	406
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.18	12.2	4.30	0.06	0.12	2.60	2.72	0.12	0.71	0.83	10,286
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.5

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.02	1.16	0.40	0.01	0.01	0.24	0.25	0.01	0.07	0.08	959
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	6.37
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	0.21	0.07	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	159

3.3. Grading (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.10	2.29	1.70	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.09	2.40	1.76	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	326
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	3.11	4.68	0.01	0.15	—	0.15	0.13	—	0.13	736

Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.02	0.46	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.57	0.85	< 0.005	0.03	—	0.03	0.02	—	0.02	122
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	18.9	6.93	0.10	0.20	4.15	4.35	0.20	1.14	1.33	16,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.17	1.91	0.00	0.00	0.39	0.39	0.00	0.09	0.09	406
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.29	19.6	6.89	0.10	0.20	4.15	4.35	0.20	1.14	1.33	16,457
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.08	0.08	0.00	0.02	0.02	80.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	3.87	1.33	0.02	0.04	0.80	0.84	0.04	0.22	0.26	3,204
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.71	0.24	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	530

3.4. Grading (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.10	2.29	1.70	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	322
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.00	16.0	24.1	0.04	0.75	—	0.75	0.69	—	0.69	3,783
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.09	2.40	1.76	< 0.005	< 0.005	2.83	2.83	< 0.005	0.28	0.28	326
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.39	3.11	4.68	0.01	0.15	—	0.15	0.13	—	0.13	736
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.02	0.46	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	62.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.57	0.85	< 0.005	0.03	—	0.03	0.02	—	0.02	122

Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.14	2.26	0.00	0.00	0.39	0.39	0.00	0.09	0.09	430
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.30	18.9	6.93	0.10	0.20	4.15	4.35	0.20	1.14	1.33	16,488
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.17	1.91	0.00	0.00	0.39	0.39	0.00	0.09	0.09	406
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.29	19.6	6.89	0.10	0.20	4.15	4.35	0.20	1.14	1.33	16,457
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.39	0.00	0.00	0.08	0.08	0.00	0.02	0.02	80.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	3.87	1.33	0.02	0.04	0.80	0.84	0.04	0.22	0.26	3,204
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	13.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	0.71	0.24	< 0.005	0.01	0.15	0.15	0.01	0.04	0.05	530

3.5. Building Construction (2024) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.12	2.58	1.92	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.10	2.70	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	367
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	6.69	6.98	0.01	0.27	—	0.27	0.25	—	0.25	1,197
Onsite truck	0.04	0.97	0.71	< 0.005	< 0.005	1.17	1.17	< 0.005	0.12	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.22	1.27	< 0.005	0.05	—	0.05	0.05	—	0.05	198
Onsite truck	0.01	0.18	0.13	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	22.2
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.62	9.81	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,863
Vendor	0.18	6.83	3.36	0.04	0.08	1.54	1.62	0.08	0.43	0.51	6,067
Hauling	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	0.57	0.74	8.29	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,761
Vendor	0.17	7.11	3.43	0.04	0.08	1.54	1.62	0.08	0.43	0.51	6,054
Hauling	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	0.21	0.27	3.21	0.00	0.00	0.62	0.62	0.00	0.14	0.14	658
Vendor	0.06	2.65	1.25	0.01	0.03	0.56	0.59	0.03	0.16	0.19	2,229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.59	0.00	0.00	0.11	0.11	0.00	0.03	0.03	109
Vendor	0.01	0.48	0.23	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	369
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Building Construction (2024) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.12	2.58	1.92	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	362
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.17	18.2	19.0	0.04	0.73	—	0.73	0.68	—	0.68	3,254
Onsite truck	0.10	2.70	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	367
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.80	6.69	6.98	0.01	0.27	—	0.27	0.25	—	0.25	1,197
Onsite truck	0.04	0.97	0.71	< 0.005	< 0.005	1.17	1.17	< 0.005	0.12	0.12	134
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.22	1.27	< 0.005	0.05	—	0.05	0.05	—	0.05	198

Onsite truck	0.01	0.18	0.13	< 0.005	< 0.005	0.21	0.21	< 0.005	0.02	0.02	22.2
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.58	0.62	9.81	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,863
Vendor	0.18	6.83	3.36	0.04	0.08	1.54	1.62	0.08	0.43	0.51	6,067
Hauling	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	0.57	0.74	8.29	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,761
Vendor	0.17	7.11	3.43	0.04	0.08	1.54	1.62	0.08	0.43	0.51	6,054
Hauling	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	0.21	0.27	3.21	0.00	0.00	0.62	0.62	0.00	0.14	0.14	658
Vendor	0.06	2.65	1.25	0.01	0.03	0.56	0.59	0.03	0.16	0.19	2,229
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.05	0.59	0.00	0.00	0.11	0.11	0.00	0.03	0.03	109
Vendor	0.01	0.48	0.23	< 0.005	0.01	0.10	0.11	0.01	0.03	0.03	369
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

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

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

Off-Road Equipment	2.05	17.3	18.8	0.04	0.66	—	0.66	0.60	—	0.60	3,254
Onsite truck	0.10	2.68	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	361
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.32	1.44	< 0.005	0.05	—	0.05	0.05	—	0.05	248
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.24	0.24	< 0.005	0.02	0.02	27.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	41.1
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.53
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.62	7.67	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,725
Vendor	0.16	6.77	3.21	0.04	0.08	1.54	1.62	0.04	0.43	0.47	5,958
Hauling	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	0.04	0.05	0.61	0.00	0.00	0.13	0.13	0.00	0.03	0.03	134
Vendor	0.01	0.52	0.24	< 0.005	0.01	0.12	0.12	< 0.005	0.03	0.04	455
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	75.3
Hauling	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 (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.05	17.3	18.8	0.04	0.66	—	0.66	0.60	—	0.60	3,254
Onsite truck	0.10	2.68	1.98	< 0.005	< 0.005	3.19	3.19	< 0.005	0.32	0.32	361
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	1.32	1.44	< 0.005	0.05	—	0.05	0.05	—	0.05	248
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.24	0.24	< 0.005	0.02	0.02	27.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.24	0.26	< 0.005	0.01	—	0.01	0.01	—	0.01	41.1
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.53
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.55	0.62	7.67	0.00	0.00	1.70	1.70	0.00	0.40	0.40	1,725
Vendor	0.16	6.77	3.21	0.04	0.08	1.54	1.62	0.04	0.43	0.47	5,958
Hauling	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	0.04	0.05	0.61	0.00	0.00	0.13	0.13	0.00	0.03	0.03	134
Vendor	0.01	0.52	0.24	< 0.005	0.01	0.12	0.12	< 0.005	0.03	0.04	455
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.11	0.00	0.00	0.02	0.02	0.00	0.01	0.01	22.1
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	75.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2025) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.09	1.99	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.08	2.08	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	281
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.85	0.02	0.37	—	0.37	0.34	—	0.34	1,733
Onsite truck	0.06	1.30	0.96	< 0.005	< 0.005	1.58	1.58	< 0.005	0.16	0.16	178
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.66	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	287
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	29.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—

Worker	3.00	3.03	48.7	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,823
Vendor	0.13	5.05	2.47	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,644
Hauling	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	2.97	3.36	41.3	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,289
Vendor	0.13	5.26	2.50	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,634
Hauling	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	1.89	2.32	27.7	0.00	0.00	5.77	5.77	0.00	1.35	1.35	6,019
Vendor	0.08	3.38	1.57	0.02	0.04	0.76	0.80	0.02	0.21	0.23	2,959
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.42	5.05	0.00	0.00	1.05	1.05	0.00	0.25	0.25	997
Vendor	0.01	0.62	0.29	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	490
Hauling	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 (2025) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.09	1.99	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.70	14.3	15.4	0.03	0.57	—	0.57	0.53	—	0.53	2,717
Onsite truck	0.08	2.08	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	281
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.08	9.10	9.85	0.02	0.37	—	0.37	0.34	—	0.34	1,733
Onsite truck	0.06	1.30	0.96	< 0.005	< 0.005	1.58	1.58	< 0.005	0.16	0.16	178
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.20	1.66	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	287
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	0.29	0.29	< 0.005	0.03	0.03	29.4
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	3.00	3.03	48.7	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,823
Vendor	0.13	5.05	2.47	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,644
Hauling	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	2.97	3.36	41.3	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,289
Vendor	0.13	5.26	2.50	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,634
Hauling	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	1.89	2.32	27.7	0.00	0.00	5.77	5.77	0.00	1.35	1.35	6,019
Vendor	0.08	3.38	1.57	0.02	0.04	0.76	0.80	0.02	0.21	0.23	2,959
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.34	0.42	5.05	0.00	0.00	1.05	1.05	0.00	0.25	0.25	997
Vendor	0.01	0.62	0.29	< 0.005	0.01	0.14	0.15	< 0.005	0.04	0.04	490

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.09	1.97	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.08	2.06	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	3.05	3.42	0.01	0.12	—	0.12	0.11	—	0.11	606
Onsite truck	0.02	0.45	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	61.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.56	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	100
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.1
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.72	45.2	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,625
Vendor	0.13	4.81	2.33	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,567
Hauling	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	2.56	3.05	38.6	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,101
Vendor	0.12	5.03	2.38	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,557
Hauling	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	0.57	0.74	9.01	0.00	0.00	2.02	2.02	0.00	0.47	0.47	2,063
Vendor	0.03	1.13	0.53	0.01	0.01	0.26	0.28	0.01	0.07	0.08	1,018
Hauling	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	0.14	1.64	0.00	0.00	0.37	0.37	0.00	0.09	0.09	342
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.09	1.97	1.49	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	273
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.63	13.7	15.3	0.03	0.52	—	0.52	0.48	—	0.48	2,716
Onsite truck	0.08	2.06	1.54	< 0.005	< 0.005	2.48	2.48	< 0.005	0.25	0.25	277
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.36	3.05	3.42	0.01	0.12	—	0.12	0.11	—	0.11	606
Onsite truck	0.02	0.45	0.34	< 0.005	< 0.005	0.55	0.55	< 0.005	0.06	0.06	61.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.56	0.62	< 0.005	0.02	—	0.02	0.02	—	0.02	100
Onsite truck	< 0.005	0.08	0.06	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	10.1
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	2.58	2.72	45.2	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,625
Vendor	0.13	4.81	2.33	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,567
Hauling	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	2.56	3.05	38.6	0.00	0.00	9.15	9.15	0.00	2.14	2.14	9,101
Vendor	0.12	5.03	2.38	0.03	0.06	1.20	1.26	0.03	0.33	0.36	4,557
Hauling	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	0.57	0.74	9.01	0.00	0.00	2.02	2.02	0.00	0.47	0.47	2,063
Vendor	0.03	1.13	0.53	0.01	0.01	0.26	0.28	0.01	0.07	0.08	1,018
Hauling	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	0.14	1.64	0.00	0.00	0.37	0.37	0.00	0.09	0.09	342
Vendor	0.01	0.21	0.10	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	168
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	10.5	11.5	0.02	0.38	—	0.38	0.35	—	0.35	2,230
Paving	0.10	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	27.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.87	2.05	< 0.005	0.07	—	0.07	0.06	—	0.06	397
Paving	0.02	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	65.7
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.81
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.19	3.23	0.00	0.00	0.65	0.65	0.00	0.15	0.15	687
Vendor	0.01	0.48	0.23	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	457
Hauling	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	0.04	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	118

Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	81.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	19.5
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	10.5	11.5	0.02	0.38	—	0.38	0.35	—	0.35	2,230
Paving	0.10	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.15	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	27.3
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	1.87	2.05	< 0.005	0.07	—	0.07	0.06	—	0.06	397
Paving	0.02	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	4.89
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.34	0.37	< 0.005	0.01	—	0.01	0.01	—	0.01	65.7
Paving	< 0.005	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	0.81

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.19	3.23	0.00	0.00	0.65	0.65	0.00	0.15	0.15	687
Vendor	0.01	0.48	0.23	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	457
Hauling	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	0.04	0.51	0.00	0.00	0.12	0.12	0.00	0.03	0.03	118
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	81.2
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	19.5
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Architectural Coating (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	14.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	3.39	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

3.16. Architectural Coating (2026) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	14.9	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	3.39	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.62	—	—	—	—	—	—	—	—	—	—
Onsite truck	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Vendor	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

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	120
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	88.5
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.53
Total	—	—	—	—	—	—	—	—	—	—	406

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	120
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	88.5
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.53
Total	—	—	—	—	—	—	—	—	—	—	406

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Annual	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3

4.3. Area Emissions by Source

4.3.2. 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	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.79	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Total	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.86	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Total	4.20	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.22	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Total	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60

4.3.1. Mitigated

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	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.79	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Total	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Total	4.20	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.22	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Total	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	107
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	107
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	193
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	17.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.2
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.10
Total	—	—	—	—	—	—	—	—	—	—	32.0

4.4.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	85.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	68.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	—	—	155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	85.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	68.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	—	—	155
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	14.2

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	—	—	25.6

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	180
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	374
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.45

Total	—	—	—	—	—	—	—	—	—	—	561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	180
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	374
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.45
Total	—	—	—	—	—	—	—	—	—	—	561
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	62.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.07
Total	—	—	—	—	—	—	—	—	—	—	92.9

4.5.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	42.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.52
Total	—	—	—	—	—	—	—	—	—	—	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	42.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.52

Total	—	—	—	—	—	—	—	—	—	—	132
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	7.05
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.25
Total	—	—	—	—	—	—	—	—	—	—	21.9

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.19
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.32
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.51

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005

Total	—	—	—	—	—	—	—	—	—	—	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.19
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.32
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.51

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	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8

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	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.6. 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	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

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	2/1/2024	3/19/2024	5.00	34.0	—
Grading	Grading	3/20/2024	6/26/2024	5.00	71.0	—
Parking Structure	Building Construction	6/27/2024	2/8/2025	5.00	162	—

Building Construction	Building Construction	2/9/2025	4/24/2026	5.00	315	—
Paving	Paving	4/25/2026	7/24/2026	5.00	65.0	—
Architectural Coating	Architectural Coating	4/1/2026	7/24/2026	5.00	83.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82

Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Parking Structure	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Parking Structure	Cement and Mortar Mixers	Diesel	Average	3.00	8.00	10.0	0.56
Parking Structure	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73
Parking Structure	Cranes	Electric	Average	1.00	8.00	367	0.29
Parking Structure	Cranes	Diesel	Average	1.00	8.00	367	0.29
Parking Structure	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Parking Structure	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Parking Structure	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Parking Structure	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Parking Structure	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Parking Structure	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Parking Structure	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82

Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Average	2.00	8.00	158	0.38
Demolition	Generator Sets	Diesel	Average	2.00	8.00	14.0	0.74
Demolition	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Demolition	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Demolition	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Demolition	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Demolition	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Demolition	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Grading	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Grading	Rubber Tired Loaders	Diesel	Average	2.00	8.00	150	0.36
Grading	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Grading	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Grading	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Parking Structure	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Parking Structure	Cement and Mortar Mixers	Diesel	Average	3.00	8.00	10.0	0.56
Parking Structure	Concrete/Industrial Saws	Diesel	Average	2.00	8.00	33.0	0.73
Parking Structure	Cranes	Electric	Average	1.00	8.00	367	0.29
Parking Structure	Cranes	Diesel	Average	1.00	8.00	367	0.29
Parking Structure	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Parking Structure	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Parking Structure	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Parking Structure	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Parking Structure	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Parking Structure	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Parking Structure	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Construction	Air Compressors	Diesel	Average	2.00	8.00	37.0	0.48
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Building Construction	Cranes	Electric	Average	1.00	8.00	367	0.29
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Building Construction	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Building Construction	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Paving	Cranes	Diesel	Average	1.00	8.00	367	0.29
Paving	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Paving	Pumps	Diesel	Average	1.00	8.00	11.0	0.74
Paving	Plate Compactors	Diesel	Average	1.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Signal Boards	Diesel	Average	2.00	8.00	6.00	0.82
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2

Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	100	28.0	HHDT
Demolition	Onsite truck	100	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	160	28.0	HHDT
Grading	Onsite truck	160	0.05	HHDT
Parking Structure	—	—	—	—
Parking Structure	Worker	130	18.5	LDA,LDT1,LDT2
Parking Structure	Vendor	180	10.2	HHDT,MHDT
Parking Structure	Hauling	0.00	20.0	HHDT
Parking Structure	Onsite truck	180	0.05	HHDT
Paving	—	—	—	—
Paving	Worker	50.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	14.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	14.0	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	700	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	140	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT

Building Construction	Onsite truck	140	0.05	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	30.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	100	28.0	HHDT
Demolition	Onsite truck	100	0.05	HHDT
Grading	—	—	—	—
Grading	Worker	30.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	160	28.0	HHDT
Grading	Onsite truck	160	0.05	HHDT
Parking Structure	—	—	—	—
Parking Structure	Worker	130	18.5	LDA,LDT1,LDT2
Parking Structure	Vendor	180	10.2	HHDT,MHDT
Parking Structure	Hauling	0.00	20.0	HHDT
Parking Structure	Onsite truck	180	0.05	HHDT
Paving	—	—	—	—
Paving	Worker	50.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	14.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	14.0	0.05	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	0.00	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	0.00	10.2	HHDT,MHDT

Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	0.00	0.00	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	700	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	140	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	140	0.05	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	330,480	110,160	30,030	8,897	7,713

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 (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	15,436	—
Grading	0.00	40,123	0.00	0.00	—

Paving	0.00	0.00	0.00	0.00	2.95

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Enclosed Parking with Elevator	2.56	100%
Other Non-Asphalt Surfaces	0.40	0%
Recreational Swimming Pool	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	1,270	690	0.05	0.01
2024	635	690	0.05	0.01
2026	635	690	0.05	0.01

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

Total all Land Uses	1,600	1,600	1,600	584,000	10,089	10,089	10,089	3,682,485

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	1,600	1,600	1,600	584,000	10,089	10,089	10,089	3,682,485

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
330480	110,160	30,030	8,897	7,713

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	903,124	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	569,657	462	0.0489	0.0069	1,170,936
Enclosed Parking with Elevator	419,347	462	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	462	0.0489	0.0069	0.00
Recreational Swimming Pool	30,924	462	0.0489	0.0069	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)
Apartments Mid Rise	903,124	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	569,657	462	0.0489	0.0069	1,170,936
Enclosed Parking with Elevator	419,347	462	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	462	0.0489	0.0069	0.00
Recreational Swimming Pool	30,924	462	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	6,336,546	38,893
High Turnover (Sit Down Restaurant)	5,062,942	0.00

Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	35,486	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	5,069,237	31,115
High Turnover (Sit Down Restaurant)	4,050,354	0.00
Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	28,389	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	95.7	—
High Turnover (Sit Down Restaurant)	198	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	3.42	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	22.6	—
High Turnover (Sit Down Restaurant)	46.8	—

Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	0.81	—

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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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 Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

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

5.15.2. Mitigated

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
Emergency Generator	Diesel	1.00	1.00	200	300	0.73

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

5.18.1.2. 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	7.38	annual days of extreme heat
Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score

Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	59.7
AQ-PM	77.2
AQ-DPM	98.1
Drinking Water	92.5
Lead Risk Housing	68.0
Pesticides	0.00
Toxic Releases	72.2
Traffic	66.2
Effect Indicators	—
CleanUp Sites	77.0
Groundwater	73.5
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	60.2
Cardio-vascular	54.9
Low Birth Weights	93.7
Socioeconomic Factor Indicators	—

Education	55.8
Housing	67.7
Linguistic	96.0
Poverty	95.1
Unemployment	98.4

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	7.160272039
Employed	33.54292314
Median HI	0.61593738
Education	—
Bachelor's or higher	59.70742974
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	0.949570127
Active commuting	95.70127037
Social	—
2-parent households	5.594764532
Voting	22.44321827
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	98.37033235

Supermarket access	94.25125112
Tree canopy	25.47157706
Housing	—
Homeownership	3.015526755
Housing habitability	16.14269216
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	54.95957911
Uncrowded housing	24.00872578
Health Outcomes	—
Insured adults	31.56679071
Arthritis	18.8
Asthma ER Admissions	42.0
High Blood Pressure	13.8
Cancer (excluding skin)	32.7
Asthma	32.2
Coronary Heart Disease	4.7
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	83.7
Cognitively Disabled	41.3
Physically Disabled	21.0
Heart Attack ER Admissions	47.6
Mental Health Not Good	27.8
Chronic Kidney Disease	10.6
Obesity	27.3
Pedestrian Injuries	65.9
Physical Health Not Good	17.0

Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	75.2
Current Smoker	28.0
No Leisure Time for Physical Activity	27.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	8.1
English Speaking	1.3
Foreign-born	95.9
Outdoor Workers	54.7
Climate Change Adaptive Capacity	—
Impervious Surface Cover	5.6
Traffic Density	86.9
Traffic Access	87.4
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	11.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	95.0
Healthy Places Index Score for Project Location (b)	18.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes

Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2026 SB 100
Land Use	Site Specific
Construction: Construction Phases	Site Specific
Construction: Off-Road Equipment	Site Specific
Construction: Trips and VMT	Site Specific
Operations: Hearths	No Hearths
Operations: Energy Use	All Electric except restaurant cooking

Sunset Vine

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

	Vine Street and Sunset Boulevard	
	Future with Project	
Direction	AM	PM
Total Intersection Volume	4729	5490
Max Daily Trips[a]	80,700	92,269
Caltrans K Factor (%)[b]	5.86%	5.95%

[a] Maximum Daily Trips are based on the Caltrans K Factor which is the percentage of the AADT in both directions during the peak hour.

[b] Caltrans K Factor obtained from 101 Freeway Monitoring Station, Postmile 5 which is closest to the Project site. Please refer to: https://dot.ca.gov/programs/traffic-operations/census

Sunset Vine

SCEA

Appendix A-3-Greenhouse Gas Emissions Worksheets and Modeling Output Files

- Appendix A-3: Greenhouse Gas Worksheets and Modeling Output Files
    - Appendix A-3.1: GHG Modeling Parameters and Summary of Emissions
        - GHG Emissions Summary
        - GHG Parameters and Summary
            - VMT Calculations
            - Electric Vehicle Charging Calculations
            - SB 100
    - Appendix A-3.2: CalEEMod Outputs
        - Project Operations No MXD

Sunset Vine

Operational Emissions Summary (GHG)

CalEEMod Output Summary	Project with no PDFs	Project with PDFs	
Baseline (Buildout Year)[a]	**CO_2e**	**CO_2e**	
Area	1	1	
Energy	159	159	
Mobile	639	639	
Emergency Generators	0	0	
Solid Waste	11	11	
Water/Wastewater	11	11	
Refrig.	3	3	
Total	825	825	
Buildout (Buildout Year)[b]			
Area	6	6	
Energy (Building and Signs)	468	468	
Mobile	1,930	1,309	
Electric Vehicle Charging Credit	(16)	(16)	
Emergency Generators	23	23	
Solid Waste	22	22	
Water/Wastewater	26	26	
Refrig.	5	5	
Construction	142	142	
Total	**2,605**	**1,984**	
Project (Buildout less Baseline)			
Area	5	5	
Energy (Building and Signs)	309	309	
Mobile	1,291	670	
Electric Vehicle Charging Credit	(16)	(16)	
Emergency Generators	23	23	
Solid Waste	11	11	
Water/Wastewater	15	15	
Refrig.	1	1	
Construction	142	142	
Total	**1,780**	**1,159**	(621)

[a] Existing Uses

[b] Please refer to CalEEMod outputs for Future uses

Sunset Vine

LADOT VMT Calculator Data

3/29/2021

VMT Summary

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	766	1,600	1,600	1	1	**1.00**
Daily VMT	4,976	10,089	10,089			

Project without TDM (MXD Data)

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT	Reduction vs. Unadjusted MXD (%)
Home Based Work Production	152	-33.6%	101	7.3	1,110	737	
Home Based Other Production	422	-53.6%	196	4.3	1,815	843	
Non-Home Based Other Production	506	-8.7%	462	7.3	3,694	3,373	
Home-Based Work Attraction	97	-47.4%	51	8.4	815	428	
Home-Based Other Attraction	910	-47.7%	476	5.6	5,096	2,666	
Non-Home Based Other Attraction	357	-9.2%	324	6.5	2,321	2,106	**32%**
Total	**2,444**				**14,851**	**10,153**	

Project with TDM (MXD Data)

	Proposed Project			*Project with Mitigation Measures*			
	TDM Adjustment	Project Trips	Project VMT	TDM Adjustment	Mitigated Trips	Mitigated VMT	
Home Based Work Production	-0.6%	100	732	-0.6%	100	732	
Home Based Other Production	-0.6%	195	838	-0.6%	195	838	
Non-Home Based Other Production	-0.6%	459	3,352	-0.6%	459	3,352	
Home-Based Work Attraction	-0.6%	51	425	-0.6%	51	425	
Home-Based Other Attraction	-0.6%	473	2,649	-0.6%	473	2,649	
Non-Home Based Other Attraction	-0.6%	322	2,093	-0.6%	322	2,093	**32%**
Total		**1,600**	**10,089**		**1,600**	**10,089**	
Resedent VMT			1,570			1,570	
Employee VMT						425	
Resident VMT (percent of total)						0.197740113	

Source: Gibson Transportation

GHG Emissions Reductions for Residential Uses Associated with Electric Vehicle Charging Stations/Plugins

Step 1: Estimating GHG Emisisons Reduction to Replace Gasoline/Diesel Vehicle with Electric Vehicle

LADWP Electricity Emission Factor[1]	0.21	MTCO2E/MWh
Fuel Economy of Electric Vehicle[2]	0.38	kWh/mile
Electric Vehicle GHG Emissions	79.9	grams/mile
GHG Emissions from Residential Miles Traveled (CalEEMod)[3]	306.0	grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	226.1	grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Residential Average Yearly VMT with TDM and PDFs[4]	728,175	miles/year
Percent of Residential Miles Driven in Electric Vehicles due to this Measure	10.0%	
Residential VMT that is Displaced by Evs due to this Measure	72,818	miles/year
GHG Emisisons Reduction from Residential Electric Vehicles	**16**	MTCO2E/MWh
Energy Usage	**27,775**	

Notes:
1) CO2 intensity factor reflects a 2028 RPS for LADWP (524 lbs of CO2E/MWh).
2) US Department of Energy, 2013. Benefits and Considerations of Electricity as a Vehicle Fuel. Available at: http://afdc.energy.gov/fuels/electricity_benefits.html.
3) CalEEMod Output file provided in Appendix XX.X of this Draft EIR.
4) Residential charging of vehicles would primarily occur over night, while commercial use charging of vehicles would primarily occur during the day. In addition, it is assumed that the charging stations/plugins for residential uses would be fully utlized which is supported by the projected number of electric vehicles in the future. Bloomberg New Energy Finance projects that electric vehicles will represent 35 percent of global new car sales by 2040 (https://about.bnef.com/blog/electric-vehicles-to-be-35-of-global-new-car-sales-by-2040/).

Sunset Vine

SB100 - Renewable Portfolio Standards

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)
2020	37	-6%	579
2021	35	6%	609
2024	44	-20%	484
2027	52	-15%	410
2030	60	-13%	355
2036	65	-8%	328
2045	100	-35%	0

Build Out Year	Carbon Intensity (lbs/MWh)
2026	462

Sunset and Vine - Project (No MXD) Detailed Report

Table of Contents

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sunset and Vine - Project (No MXD)
Operational Year	2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	16.8
Location	6265 Leland Way, Los Angeles, CA 90028, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4351
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.14

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	170	Dwelling Unit	1.74	163,200	2,269	0.00	383	—

High Turnover (Sit Down Restaurant)	16.7	1000sqft	0.00	16,680	0.00	0.00	—	—
Enclosed Parking with Elevator	284	Space	2.56	113,600	0.00	0.00	—	—
Other Non-Asphalt Surfaces	17.2	1000sqft	0.40	0.00	0.00	0.00	—	—
Recreational Swimming Pool	0.60	1000sqft	0.01	600	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-7	Adopt a Water Conservation Strategy
Waste	S-1/S-2	Implement Waste Reduction Plan

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.	14.5	7.90	70.5	0.12	0.26	10.5	10.8	0.25	2.67	2.93	16,193
Mit.	14.5	7.90	70.5	0.12	0.26	10.5	10.8	0.25	2.67	2.93	15,726
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	12.6	8.20	52.1	0.12	0.24	10.5	10.8	0.24	2.67	2.91	15,628
Mit.	12.6	8.20	52.1	0.12	0.24	10.5	10.8	0.24	2.67	2.91	15,160
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	13.3	7.09	62.5	0.12	0.19	10.5	10.7	0.18	2.67	2.86	15,580
Mit.	13.3	7.09	62.5	0.12	0.19	10.5	10.7	0.18	2.67	2.86	15,113
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.43	1.29	11.4	0.02	0.03	1.92	1.96	0.03	0.49	0.52	2,579
Mit.	2.43	1.29	11.4	0.02	0.03	1.92	1.96	0.03	0.49	0.52	2,502
% Reduced	—	—	—	—	—	—	—	—	—	—	3%

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	7.50	4.69	52.4	0.12	0.08	10.5	10.6	0.07	2.67	2.75	12,029
Area	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	14.5	7.90	70.5	0.12	0.26	10.5	10.8	0.25	2.67	2.93	16,193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.40	5.13	49.4	0.11	0.08	10.5	10.6	0.07	2.67	2.75	11,513
Area	4.20	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828

Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	12.6	8.20	52.1	0.12	0.24	10.5	10.8	0.24	2.67	2.91	15,628
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.34	5.17	50.4	0.11	0.08	10.5	10.6	0.07	2.67	2.75	11,660
Area	5.42	0.10	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	33.8
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	193
Waste	—	—	—	—	—	—	—	—	—	—	561
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	277
Total	13.3	7.09	62.5	0.12	0.19	10.5	10.7	0.18	2.67	2.86	15,580
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	0.94	9.20	0.02	0.01	1.92	1.94	0.01	0.49	0.50	1,930
Area	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	468
Water	—	—	—	—	—	—	—	—	—	—	32.0
Waste	—	—	—	—	—	—	—	—	—	—	92.9
Refrig.	—	—	—	—	—	—	—	—	—	—	4.51
Stationary	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	2.43	1.29	11.4	0.02	0.03	1.92	1.96	0.03	0.49	0.52	2,579

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.50	4.69	52.4	0.12	0.08	10.5	10.6	0.07	2.67	2.75	12,029
Area	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155
Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	14.5	7.90	70.5	0.12	0.26	10.5	10.8	0.25	2.67	2.93	15,726
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.40	5.13	49.4	0.11	0.08	10.5	10.6	0.07	2.67	2.75	11,513
Area	4.20	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155
Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	12.6	8.20	52.1	0.12	0.24	10.5	10.8	0.24	2.67	2.91	15,160
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.34	5.17	50.4	0.11	0.08	10.5	10.6	0.07	2.67	2.75	11,660
Area	5.42	0.10	10.5	< 0.005	0.01	—	0.01	0.01	—	0.01	33.8
Energy	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	2,828
Water	—	—	—	—	—	—	—	—	—	—	155
Waste	—	—	—	—	—	—	—	—	—	—	132
Refrig.	—	—	—	—	—	—	—	—	—	—	27.2
Stationary	0.54	1.51	1.38	< 0.005	0.08	0.00	0.08	0.08	0.00	0.08	277

Total	13.3	7.09	62.5	0.12	0.19	10.5	10.7	0.18	2.67	2.86	15,113
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.34	0.94	9.20	0.02	0.01	1.92	1.94	0.01	0.49	0.50	1,930
Area	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Energy	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	468
Water	—	—	—	—	—	—	—	—	—	—	25.6
Waste	—	—	—	—	—	—	—	—	—	—	21.9
Refrig.	—	—	—	—	—	—	—	—	—	—	4.51
Stationary	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	2.43	1.29	11.4	0.02	0.03	1.92	1.96	0.03	0.49	0.52	2,502

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Mobile source emissions results are presented in Sections 2.6. No further detailed breakdown of emissions is available.

4.1.2. Mitigated

Mobile source emissions results are presented in Sections 2.5. No further detailed breakdown of emissions is available.

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	120

Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	88.5
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.53
Total	—	—	—	—	—	—	—	—	—	—	406

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1,151

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	726
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	535
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	39.4
Total	—	—	—	—	—	—	—	—	—	—	2,451
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	120
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	88.5
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.53
Total	—	—	—	—	—	—	—	—	—	—	406

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)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00

High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	376
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3
Enclosed Parking with Elevator	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
Recreational Swimming Pool	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	62.3

4.3. Area Emissions by Source

4.3.2. 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	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.79	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Total	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Total	4.20	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.22	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Total	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60

4.3.1. Mitigated

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	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	1.79	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Total	5.99	0.14	15.3	< 0.005	0.01	—	0.01	0.01	—	0.01	49.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	3.86	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.34	—	—	—	—	—	—	—	—	—	—
Total	4.20	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.70	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.22	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60
Total	0.99	0.02	1.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.60

4.4. Water Emissions by Land Use

4.4.2. 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)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	107
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	193
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	107
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	85.5
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.60
Total	—	—	—	—	—	—	—	—	—	—	193
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	17.8

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.2
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.10
Total	—	—	—	—	—	—	—	—	—	—	32.0

4.4.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	85.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	68.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	—	—	155
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	85.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	68.4
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.48
Total	—	—	—	—	—	—	—	—	—	—	155
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	14.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	11.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.08
Total	—	—	—	—	—	—	—	—	—	—	25.6

4.5. Waste Emissions by Land Use

4.5.2. 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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	180
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	374
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.45
Total	—	—	—	—	—	—	—	—	—	—	561
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	180
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	374
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.45
Total	—	—	—	—	—	—	—	—	—	—	561

Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	29.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	62.0
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.07
Total	—	—	—	—	—	—	—	—	—	—	92.9

4.5.1. Mitigated

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	42.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.52

Total	—	—	—	—	—	—	—	—	—	—	132
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	42.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	88.3
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.52
Total	—	—	—	—	—	—	—	—	—	—	132
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	7.05
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.25
Total	—	—	—	—	—	—	—	—	—	—	21.9

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)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.19
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.32

Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.51

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	1.17
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	26.1
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	27.2
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	0.19

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.32
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.51

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	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

Equipment Type	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)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8

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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Total	0.98	2.75	2.51	< 0.005	0.14	0.00	0.14	0.14	0.00	0.14	505
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8
Total	0.10	0.28	0.25	< 0.005	0.01	0.00	0.01	0.01	0.00	0.01	45.8

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	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

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

Equipment Type	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	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—

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

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

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

4.10.6. 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	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
Total all Land Uses	2,444	2,444	2,444	892,060	14,851	14,851	14,851	5,420,615

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Total all Land Uses	2,444	2,444	2,444	892,060	14,851	14,851	14,851	5,420,615

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

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)
330480	110,160	30,030	8,897	7,713

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	903,124	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	569,657	462	0.0489	0.0069	1,170,936
Enclosed Parking with Elevator	419,347	462	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	462	0.0489	0.0069	0.00
Recreational Swimming Pool	30,924	462	0.0489	0.0069	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)
Apartments Mid Rise	903,124	462	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	569,657	462	0.0489	0.0069	1,170,936
Enclosed Parking with Elevator	419,347	462	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	462	0.0489	0.0069	0.00
Recreational Swimming Pool	30,924	462	0.0489	0.0069	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	6,336,546	38,893
High Turnover (Sit Down Restaurant)	5,062,942	0.00
Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	35,486	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	5,069,237	31,115
High Turnover (Sit Down Restaurant)	4,050,354	0.00
Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	28,389	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	95.7	—
High Turnover (Sit Down Restaurant)	198	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	3.42	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	22.6	—
High Turnover (Sit Down Restaurant)	46.8	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	0.81	—

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
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00

High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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 Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
High Turnover (Sit Down Restaurant)	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
High Turnover (Sit Down Restaurant)	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Recreational Swimming Pool	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
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

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

5.15.2. Mitigated

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
Emergency Generator	Diesel	1.00	1.00	200	300	0.73

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

5.18.1.2. 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	7.38	annual days of extreme heat

Extreme Precipitation	6.85	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	N/A	N/A	N/A	N/A
Wildfire	N/A	N/A	N/A	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	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	59.7
AQ-PM	77.2
AQ-DPM	98.1
Drinking Water	92.5
Lead Risk Housing	68.0
Pesticides	0.00

Toxic Releases	72.2
Traffic	66.2
Effect Indicators	—
CleanUp Sites	77.0
Groundwater	73.5
Haz Waste Facilities/Generators	73.8
Impaired Water Bodies	0.00
Solid Waste	12.9
Sensitive Population	—
Asthma	60.2
Cardio-vascular	54.9
Low Birth Weights	93.7
Socioeconomic Factor Indicators	—
Education	55.8
Housing	67.7
Linguistic	96.0
Poverty	95.1
Unemployment	98.4

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	7.160272039
Employed	33.54292314
Median HI	0.61593738
Education	—

Bachelor's or higher	59.70742974
High school enrollment	100
Preschool enrollment	95.7141024
Transportation	—
Auto Access	0.949570127
Active commuting	95.70127037
Social	—
2-parent households	5.594764532
Voting	22.44321827
Neighborhood	—
Alcohol availability	4.516874118
Park access	81.35506224
Retail density	98.37033235
Supermarket access	94.25125112
Tree canopy	25.47157706
Housing	—
Homeownership	3.015526755
Housing habitability	16.14269216
Low-inc homeowner severe housing cost burden	14.65417683
Low-inc renter severe housing cost burden	54.95957911
Uncrowded housing	24.00872578
Health Outcomes	—
Insured adults	31.56679071
Arthritis	18.8
Asthma ER Admissions	42.0
High Blood Pressure	13.8
Cancer (excluding skin)	32.7

Asthma	32.2
Coronary Heart Disease	4.7
Chronic Obstructive Pulmonary Disease	9.6
Diagnosed Diabetes	15.4
Life Expectancy at Birth	83.7
Cognitively Disabled	41.3
Physically Disabled	21.0
Heart Attack ER Admissions	47.6
Mental Health Not Good	27.8
Chronic Kidney Disease	10.6
Obesity	27.3
Pedestrian Injuries	65.9
Physical Health Not Good	17.0
Stroke	7.6
Health Risk Behaviors	—
Binge Drinking	75.2
Current Smoker	28.0
No Leisure Time for Physical Activity	27.1
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	88.7
Elderly	8.1
English Speaking	1.3
Foreign-born	95.9
Outdoor Workers	54.7
Climate Change Adaptive Capacity	—

Impervious Surface Cover	5.6
Traffic Density	86.9
Traffic Access	87.4
Other Indices	—
Hardship	79.2
Other Decision Support	—
2016 Voting	11.9

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	95.0
Healthy Places Index Score for Project Location (b)	18.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	Yes
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Characteristics: Utility Information	Carbon Intensity for 2026 SB 100
Land Use	Site Specific
Construction: Construction Phases	Site Specific
Construction: Off-Road Equipment	Site Specific
Construction: Trips and VMT	Site Specific
Operations: Hearths	No Hearths
Operations: Energy Use	All Electric except restaurant cooking