

Appendix B

Air Quality and Greenhouse Gas

Wilshire & Cloverdale Project

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Wilshire & Cloverdale Project

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

AIR QUALITY AND GREENHOUSE GAS EMISSIONS METHODOLOGY

Wilshire & Cloverdale Project

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Wilshire & Cloverdale 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 Wilshire & Cloverdale 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;
 - Stationary source: emissions associated with stationary equipment (e.g., emergency generators); and
 - 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 South Coast Air Quality Managements District's (SCAQMD) 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 United States Environmental Protection Agency's (USEPA) AP-42 emission factors, the California Air Resources Board's the California Air Resources Board's (CARB) on-road emission model (EMission FACTor

² See www.caleemod.com.

model (EMFAC)) and off-road equipment emission model (Off-road Emissions Inventory Program model (OFFROAD)).

(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.

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

Construction Off-Road Equipment:

$$\text{Emissions Diesel [lbs]} = \left(\sum_i (\text{EF}_i \times \text{Pop}_i \times \text{AvgHP}_i \times \text{Load}_i \times \text{Activity}_i \right)$$

Where: EF_i = Emission factor from OFFROAD (lbs/hr)
 Pop_i = Population (quantity of same equipment)
 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. Particulate Matter (PM) PM_{10} and $\text{PM}_{2.5}$ 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 76 percent in compliance with the rule.

(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 vehicle miles traveled (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:

$$\text{Emissions pollutant (lbs)} = \text{VMT} \times \text{EF running, pollutant}$$

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

Volatile organic compounds (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:

$$\text{Emissions Architectural Coatings (lbs)} = \text{EF}_{\text{AC}} \times F \times A_{\text{paint}}$$

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 were 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:

$$\text{EF}_{\text{AC}} = \text{C}_{\text{VOC}} / 454(\text{g/lb}) \times 3.785(\text{L/gal}) / 180(\text{sf})$$

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:

$$\text{Emissions}_{\text{AP}} (\text{lbs}) = \text{EF}_{\text{AP}} \times A_{\text{parking}}$$

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. CalEEMod does not provide a studio land use classification. Based on a review of industrial uses (general heavy industry, general light industry, industrial park, and warehouse) and non-industrial use factors provided in Appendix G (Default Data Tables) of the CalEEMod 2022 User Guide, it was determined that a studio use's characteristics are most similar to industrial uses, and that the industrial park use classification would provide the most conservative estimate of energy, water, and solid waste pollutant emissions as compared to other industrial and non-industrial CalEEMod use classifications. As such, the industrial park use classification was used to estimate the Project's energy, water, and solid waste pollutant emissions. The CalEEMod 2022 default restaurant energy, water, and solid waste factors are the same for all restaurant uses (fast food, quality, and high turnover restaurants). A review of the CalEEMod 2022 default trip and VMT rates for industrial and restaurant uses was not necessary as the Project's trips and VMT were calculated using the Los Angeles Department of Transportation (LADOT) Vehicle Miles Traveled (VMT) Calculator model.

(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:

$$\text{Emissions Consumer Products (lbs)} = \text{EF}_{\text{CP}} \times \text{Building Area}$$

Where:

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

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

Building Area = the total square footage of all buildings including residential square footage (where applicable)

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:

$$\text{Landscaping Equipment Emissions [lbs]} = (\sum_i (\text{Units} \times \text{EF}_{\text{LE}} \times \text{A}_{\text{LE}})_i)$$

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

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

i = Summation index

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

(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.

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.

(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 global warming potential (GWP) values for the GHGs emitted. Annual electricity GHG emissions in units of metric tons of CO₂ equivalent (MTCO_{2e}) are calculated as follows:

Electricity:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_E \times EF_E \times \text{GWP})_i) \div 2,204.62$$

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 [CO₂ = 1, CH₄ = 21, N₂O = 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 (where applicable).

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 2022 Power Content

Label, which provides a CO₂ intensity of 567 pounds of CO₂ per MWh for 2022. By 2030, at least 60 percent of electricity shall be obtained from renewable sources. As year-by-year data is currently not available, the CO₂ 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:

$$\text{Natural Gas Emissions (lbs)} = (\sum_i (\text{Units} \times D_{\text{NG}} \times EF_{\text{NG}})_i)$$

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]
/ = Summation index

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

In order to account for the Project's implementation of Project Design Feature GHG-PDF-1, calculations were performed to convert appliances which are typically powered by natural gas, to electricity powered. By default, CalEEMod 2022.1 assumes appliances such as water heating, clothes dryers and space heating are powered by natural gas. The CalEEMod 2022.1 model contains adjustments to take into account the increased electricity usage and decrease in GHG emissions as a result of all-electric development for residential uses. However, these adjustments are not yet available in CalEEMod 2022.1 for commercial uses (e.g., the Project). The CAPCOA GHG Handbook provides a methodology to calculate the equivalent electricity usage of an appliance that is normally powered by natural gas, such as clothes dryers, water heaters and space heating.⁵ In order to account for the Project's compliance with the new all-electric ordinance,

⁵ *California Air Pollution Control Officers Association (CAPCOA) Handbook for Analyzing Greenhouse Gas Emissions Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity. Appendix C. Table E-15. December 2021.*

calculations were performed to convert appliances which are typically powered by natural gas, to electricity powered. Conservatively, the CAPCOA GHG Handbook also assumes some appliances that are typically powered by electricity to be powered by natural gas by default (e.g., refrigeration and air conditioning). As CalEEMod 2022.1 categorizes electricity usage as either Title 24 (e.g., space heating and water heating) versus non-Title 24 (e.g., appliances), a specific conversion for each category provided in the CAPCOA GHG Handbook was not available. Thus, some natural gas categories within the CAPCOA GHG Handbook (e.g., refrigeration) are likely already included as electric within CalEEMod. Thus, the conversion between natural gas to electricity for these categories within the CAPCOA GHG Handbook would be conservative and overstate the total electricity usage. The calculations are provided in Appendix A of this Draft EIR.

(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 VMT. The Traffic Study prepared by Gibson Transportations Consulting 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 EMFAC2021.

Mobile source emissions were generally calculated in CalEEMod as follows:

Mobile:

$$\text{Mobile Emissions [lbs]} = (\sum_i (\text{Units} \times \text{ADT} \times D_{\text{TRIP}} \times EF_i))$$

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 (where applicable).

Mobile source operational emissions were calculated based on the Project VMT estimates provided by 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-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 GHG 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, High Quality Transit Area (HQTa) and SCAG-designated Priority Development Area (i.e Neighborhood Mobility Area, Livable Corridor, and Transit Priority Area) as well as a High Quality Transit Corridor (HQTC) 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:

⁶ Fehr & Peers., *Wilshire and Cloverdale Project Transportation Assessment*. 2023. (See Appendix X of this Draft EIR)

⁷ Environmental Protection Agency, *Mixed-Use Trip Generation Model*. www.epa.gov/smartgrowth/mixed-use-trip-generation-model. Accessed August 2, 2024.

Emergency Generator:

$$\text{Emissions [lbs]} = (\text{Total HP} \times \text{LF} \times \text{HR} \times \text{EF})$$

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 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 CO₂ and CH₄ 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 MTCO₂e were calculated in CalEEMod as follows:

Solid Waste:

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_{\text{MSW}} \times EF_{\text{MSW}} \times \text{GWP})_i) \div 1.1023$$

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 [CO₂ = 1, CH₄ = 21, N₂O = 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 (where applicable).

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 annual solid waste disposal rates used. The GHG emission factors, particularly for CH₄, 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

(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:

⁸ City of Los Angeles, *Sustainable City pLAN, Waste & Landfills*, <http://plan.lamayor.org/portfolio/waste-landfills-3rd>, accessed August 2, 2024.

Water Supply, Treatment, and Distribution; Wastewater Treatment (electricity):

$$\text{Annual Emissions [MTCO}_2\text{e]} = (\sum_i (\text{Units} \times D_W \times (EI_W \div 1,000) \times EF_W \times GWP)_i) \div 2,204.62$$

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 [$\text{CO}_2 = 1$, $\text{CH}_4 = 21$, $\text{N}_2\text{O} = 310$]
	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 (where applicable).

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 B-2-Air Quality Worksheets

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Wilshire Cloverdale
Air Quality Emissions Summary

AQ SUMMARY OF EMISSIONS WINTER Construction Emissions (Unmitigated)						
Regional (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
2026	4	64	55	<1	13	5
2027	4	86	53	<1	13	5
2028	3	19	44	<1	7	2
2029	30	18	43	<1	7	2
Offsite Improvements	<1	5	10	<1	<1	<1
MAX	30	86	55	<1	13	5
Threshold	75	100	550	150	150	55
Difference	(45)	(14)	(495)	(150)	(137)	(50)
Impact	No	No	No	No	No	No
Offsite improvements would not be expected to occur concurrently with grading operations or the mat pour. As such, combined maximum daily emissions would not change.						
Localized (Daily) Unmitigated	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
2026		32	39		4.5	2.1
2027		30	39		4.4	2.0
2028		16	20		<1	<1
2029		16	20		<1	<1
Offsite Improvements		5	8		0.19	0.18
MAX		32	39		4.5	2.1
Threshold		54	680		5	3
Difference		(22)	(641)		(0.5)	(0.9)
Impact		No	No		No	No
Offsite improvements would not be expected to occur concurrently with grading operations or the mat pour. As such, combined maximum daily emissions would not change.						

Operation Emissions (Consistent with GHG-PDF-1)

Existing Regional Emissions (Existing Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	1	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	6	5	46	<1	8	2
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	8	6	46	<1	8	2
Existing Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	1	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	5	3	33	<1	8	2
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	6	4	34	<1	8	2
Buildout Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	10	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	11	7	71	<1	17	4
Emergency Generator	4	16	9	<1	<1	<1
Total	24	24	81	<1	17	5
Project (Buildout less Existing) for Buildout Year	ROG	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Area	9	<1	<1	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	6	4	38	<1	9	2
Emergency Generator	4	16	9	<1	<1	<1
Total	18	20	47	<1	9	2
Threshold	55	55	550	150	150	55
Difference	(37)	(35)	(503)	(150)	(141)	(53)
Impact	No	No	No	No	No	No
Project Localized (Buildout Year)						
Onsite Total		16	9		<1	<1
Threshold		54	680		2	1
Difference		(38)	(671)		(2)	(1)
Impact		No	No		No	No

Wilshire and Cloverdale
Air Quality Emissions Summary

AQ SUMMARY OF EMISSIONS SUMMER						
Construction Emissions (Unmitigated)						
Regional (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
2026	4	62	55	<1	13	5
2027	2	17	24	<1	4	1
2028	3	19	49	<1	7	2
2029	28	7	12	<1	1	<1
MAX	28	62	55	<1	13	5
Threshold	75	100	550	150	150	55
Difference	(47)	(38)	(495)	(150)	(137)	(50)
Impact	No	No	No	No	No	No
Offsite improvements would not be expected to occur concurrently with grading operations or the mat pour. As such, combined maximum daily emissions would not change.						
Localized (Daily) Unmitigated	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
2026		32	39		4.5	2.1
2027		10	11		<1	<1
2028		16	20		<1	<1
2029		6	9		<1	<1
MAX		32	39		4.5	2.1
Threshold		54	680		5	3
Difference		(22)	(641)		(0.51)	(0.9)
Impact		No	No		No	No
Offsite improvements would not be expected to occur concurrently with grading operations or the mat pour. As such, combined maximum daily emissions would not change.						
Operation Emissions (Consistent with GHG-PDF-1)						
Existing Regional Emissions (Existing Year)	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
Area	2	<1	2	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	7	5	49	<1	8	2
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	8	5	51	<1	8	2
Existing Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
Area	2	<1	2	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	5	3	35	<1	8	2
Emergency Generator	<1	<1	<1	<1	<1	<1
Total	6	3	38	<1	8	2
Buildout Regional Emissions (Buildout Year)	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
Area	13	<1	33	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	11	6	75	<1	17	4
Emergency Generator	4	16	9	<1	<1	<1
Total	28	23	118	<1	17	5
Project (Buildout less Existing) for Buildout Year	ROG	NO _x	CO	SO2	PM ₁₀	PM _{2.5}
Area	12	<1	31	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Mobile	6	4	40	<1	9	2
Emergency Generator	4	16	9	<1	<1	<1
Total	21	20	81	<1	9	2
Threshold	55	55	550	150	150	55
Difference	(34)	(35)	(469)	(150)	(141)	(53)
Impact	No	No	No	No	No	No
Project Localized (Buildout Year)						
Onsite Total		16	41		<1	<1
Threshold		54	680		2	1
Difference		(38)	(639)		(2)	(1)
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	98th percentile, ppb		
		2020-2022	2020	2021	2022
1	Central LA	56	55	57	57
SRA	City	Design Value	Max Hourly, ppb		
		2006-2008	2020	2021	2022
1	Central LA	120	62	78	75

Threshold (ppb) Allowable Increase (ppb)

100 44

Threshold (ppb) Allowable Increase (ppb)

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

5350 Wilshire
Air Quality Analysis Assumptions

									Onsite Truck Activity					
Construction Details		Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Hauls	Total Hauls	Max Daily Deliveries	Daily Truck Hauls	Paved Distance (one way) (ft)	Unpaved Distance (one way) (ft)	Paved Speed (mph)	Unpaved Speed (mph)
Overall Duration		6/5/2026	5/28/2029	36	933									
Demolition		6/5/2026	7/2/2026	1	20	50	20	400	-	20	400	250	10	10
Grading/Excavation		7/3/2026	3/17/2027	8	184	50	130	8,271		130	400	250	10	10
Mat Foundation		3/18/2027	3/31/2027	0	10	50	-	-	600	600	400		10	10
Building Foundation		4/1/2027	10/4/2027	6	133	175	-	-	100	100	400		10	10
Building Construction		10/5/2027	2/16/2029	16	359	500	-	-	15	15	400		10	10
Paving/Landscape		2/17/2029	5/28/2029	3	71	50	-	-	15	15	400		10	10
Building Renovation		6/5/2026	1/31/2027	8	171	20			15	15	400		10	10
Site Acreage														
		1,360	Note: Maximum daily hauls are conservative since actual hauling on any given day is likely to be much less given the total number of required haul trips.											
Demolition Quantities														
Building Square Footage (SF)		6,137												
Parking (SF)		28,253												
Parking (spaces)		82												
Import/Export Quantities during Grading		(CY)												
Import														
Export		115,796												

Note: Maximum daily hauls are conservative since actual hauling on any given day is likely to be much less given the total number of required haul trips.

Landfill Location	Distance (miles)
Sunshine Canyon, Sylmar CA	25
Vulcan Irwindale	29

Equipment		Eiupment assumed to operate 8 hrs/day.					
		Demo	Grading/Excavation	Mat Foundation	Foundation	Building Construction	Paving/Landscape
Air Compressor	1	-	-	-	-	4	-
Aerial Lift	-	-	-	-	-	4	-
Bore/Drill Rig	-	1	-	-	-	-	-
Cement and Mortar Mixers	-	-	2	2	2	1	1
Concrete/Industrial Saws	1	-	-	1	1	1	-
Cranes (Tower)	-	-	-	2	2	2	-
Cranes (Mobile)	-	1					-
Crawler Tractors	-	-	-	-	-	-	-
Crushing/Proc. Equipment	-	-	-	-	-	-	-
Excavators	2	2	-	-	-	-	-
Forklifts	-	1	-	2	2	2	-
Generator Sets	1	1	-	-	-	-	-
Graders	-	-	-	-	-	-	-
Off-Highway Tractors	-	-	-	-	-	-	-
Water Truck	1	1	-	-	-	-	-
Pavers	-	-	-	-	-	1	-
Paving Equipment	-	-	-	-	-	1	-
Pumps	-	4	6	2	2	-	-
Plate Compactors	-	-	6	4	4	2	-
Rollers	-	-	-	-	-	1	-
Rough Terrain Forklifts	-	-	-	-	-	-	-
Rubber Tired Dozers		1	-	-	-	-	-
Rubber Tired Loaders	1	1	-	-	-	-	-
Scrapers	-	-	-	-	-	-	-
Signal Boards	-	-	-	-	-	-	-
Skid Steer Loaders	-	-	-	-	1	1	-
Surfacing Equipment	-	-	-	-	-	-	-
Tractors/Loaders/Backhoes		-	-	-	-	1	1
Trenchers	-	-	-	-	-	-	-
Welders	-	2	-	2	2	-	1
Other ()	-	-	-	-	-	-	-
Total Pieces	7	15	14	15	23	8	5

Offsite Improvements

Air Quality Analysis Assumptions

<u>Construction Details</u>	Start Date	End Date	Duration (Months)	Work Days	Max Daily Employee Trips	Max Daily Haul Trips (includes two trips per haul)	Max Daily Delivery Trips		Construction Notes
Overall Duration	4/1/2027	7/15/2027	4	90					No specific start date. Assumed overlap would not occur with Project mat pour.
Excavation	4/1/2027	4/30/2027	1.0	22	20	6	6		
Drainage Installation	5/1/2027	6/30/2027	2.0	43	20	-	6		
Paving	7/1/2027	7/15/2027	0.5	11	20	-	6		

Equipment						
	Excavation	Drainage	Paving			
Air Compressor						
Cement and Mortar Mixers						
Concrete/Industrial Saws						
Crawler Tractors						
Crushing/Proc. Equipment						
Excavators	1	1				
Forklifts						
Generator Sets						
Graders						
Off-Highway Tractors						
Water Truck	1	1				
Pavers			1			
Paving Equipment			1			
Pumps						
Plate Compactors						
Rollers			1			
Rough Terrain Forklifts						
Rubber Tired Dozers						
Rubber Tired Loaders	1	1				
Scrapers						
Signal Boards						
Skid Steer Loaders						
Surfacing Equipment						
Tractors/Loaders/Backhoes	1	1	1			
Trenchers						
Welders						
Other ()						
Total Pieces	4	4	4			

Wilshire and Cloverdale

CO Hotspots

CO Hotspots Analysis - Maximum Impacted Intersection

Direction	Wilshire Boulevard and Cloverdale	
	Future with Project	
	AM	PM
Total Intersection Volume	2,639	2,564
Max Daily Trips ^a	45,034	43,092
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 annual average daily trips (AADT) in both directions during the peak hour. The K factor is the percentage of AADT during the peak hour for both directions of travel.

^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>

Wilshire & Cloverdale Project

Operational Truck Trips

Truck Trips (Existing)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Retail	38.871	0.324	12.6
Office	9.358	0.039	0.4
Commerical (Automotive Dealership)	0	0.324	0.0
Total			13

Truck Trips (Buildout)

Land Use	TSF	Truck Trips/TSF	Truck Trips
Retail	36.737	0.324	11.9
Office	8	0.039	0.3
Residential	375.464	0.011	4.1
Total			17

TSF--Thousand Square Feet

A conservative estimate of the number of daily truck trips is provided based on the National Cooperative Highway Research Program Truck Trip Generation Data (Table D-2a through e).

For purposes of this discussion, all trucks would be considered diesel even though many truck deliveries are from smaller gasoline or alternative energy source trucks (e.g., UPS or FedEx). The NCHRP data did not provide the percentage of trucks that would be equipped with a transportation refrigeration unit (TRU). For the purposes of this analysis, it was estimated that one of the trucks per day would be equipped with a TRU related to restaurant use.

National Cooperative Highway Research Program (NCHRP) Synthesis 298 Truck Trip Generation Data, 2001, http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_298.pdf.

Wilshire & Cloverdale Project

Appendix B-3-Greenhouse Gas Emissions Worksheets

- Appendix B-3: Greenhouse Gas Worksheets
 - Appendix B-3.1: GHG Modeling Parameters and Summary of Emissions
 - GHG Emissions Summary
 - GHG Parameters
 - Carbon Intensity
 - VMT
 - EVs

Wilshire & Cloverdale

Construction Emissions Summary (GHG)

CalEEMod Output Summary

Year	CO ₂ e
2026	2,209
2027	1,969
2028	1,210
2029	250
Total	5,709
Atomized	190

Operational Emissions Summary (GHG)

Existing (Baseline Year) ^a	CO ₂ e
Area	1
Energy	338
Mobile	1610
Emergency Generators	0
Solid Waste	19
Water/Wastewater	26
Refrig.	5
Total	1999
Existing (Buildout Year) ^a	CO ₂ e
Area	1
Energy	280
Mobile	1,408
Emergency Generators	0
Solid Waste	19
Water/Wastewater	22
Refrig.	5
Total	1,736
Buildout (Buildout Year) ^b	CO ₂ e
Area	12
Energy	1,005
Mobile ^c	2,988
Electric Vehicle Charging Credit	(47)
Emergency Generators	164
Solid Waste	52
Water/Wastewater	57
Refrig.	10
Operations Subtotal	4,241
Construction	190
Total	4,431
Project (Buildout less Existing (Buildout Year))	
Area	11
Energy	725
Mobile ^c	1,580
Electric Vehicle Charging Credit	(47)
Emergency Generators	164
Solid Waste	33
Water/Wastewater	35
Refrig.	5
Operations Subtotal	2,506
Construction	190
Total	2,696

^a Existing Uses

^b Please refer to CalEEMod outputs for Future uses

^c Mobile source emissions include reductions included in the LADOT VMT Calculator based EPA MXD Methodology

Wilshire & Cloverdale

SB100 - Renewable Portfolio Standards

Year	% RPS	RPS Reduction (%)	Carbon Intensity (lbs/MWh)
2022	35		567
2024	44	-20%	451
2027	52	-15%	382
2030	60	-13%	331
2036	65	-8%	305
2045	100	-35%	0

Build Out Year	Carbon Intensity (lbs/MWh)
2023	504
2029	375

Wilshire & Cloverdale**LADOT VMT Calculator Data****VMT Summary**

	Existing	Proposed Project	With Mitigation	Project Weekday Trips	Weekend Trips	Weekend Vs. Weekday Ratio
Daily Trips	1,841	3,936	3,936	1	1	1.00
Daily VMT	11,649	24,274	24,274			

Project without TDM (MXD Data)

	Unadjusted Trips	MXD Adjustment	MXD Trips	Average Trip Length	Unadjusted VMT	MXD VMT
Home Based Work Production	373	-26.0%	276	6.6	2,462	1,822
Home Based Other Production	1,033	-46.7%	551	4.9	5,062	2,700
Non-Home Based Other Production	1,173	-7.1%	1090	6.9	8,094	7,521
Home-Based Work Attraction	259	-37.1%	163	7.4	1,917	1,206
Home-Based Other Attraction	2,074	-46.4%	1112	5.9	12,237	6,561
Non-Home Based Other Attraction	807	-7.8%	744	6.0	4,842	4,464
Total	5,719				34,614	24,274

Reduction vs.
Unadjusted MXD (%)**30%****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	0.0%	276	1,822	0.0%	276	1,822
Home Based Other Production	0.0%	551	2,700	0.0%	551	2,700
Non-Home Based Other Production	0.0%	1,090	7,521	0.0%	1,090	7,521
Home-Based Work Attraction	0.0%	163	1,206	0.0%	163	1,206
Home-Based Other Attraction	0.0%	1,112	6,561	0.0%	1,112	6,561
Non-Home Based Other Attraction	0.0%	744	4,464	0.0%	744	4,464
Total		3,936	24,274		3,936	24,274
Resident and Employee VMT			4,522			5,728
Resident and Employee VMT (percent of total)						0.235972646

30%

Source: Fehr & Peers, Transportation Assessment for Wilshire & Cloverdale Project, 2023.

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

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

LADWP Electricity Emission Factor ¹	0.17 MTCO ₂ E/MWh
Fuel Economy of Electric Vehicle ²	0.41 kWh/mile
Electric Vehicle GHG Emissions	69.6 grams/mile
GHG Emissions from Residential Miles Traveled (CalEEMod) ³	293.5 grams/mile
GHG Emissions Reduction from Additional Electric Vehicles, per mile	223.9 grams/mile

Step 2: Estimating Project Residential-Related VMT GHG Emissions

Residential Average Yearly VMT with TDM and PDFs ⁴	2,090,720 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	209,072 miles/year
GHG Emissions Reduction from Residential Electric Vehicles	47 MTCO₂E/MWh

Energy Usage **85,520**

Notes:

- 1) CO₂ intensity factor reflects a 2029 RPS for LADWP (375 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 utilized 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/>).

Wilshire & Cloverdale Project

Appendix B-4-Modeling Output Files

- Appendix B-4: Modeling Output Files
 - Appendix B-4.1: CalEEMod Outputs
 - Existing Baseline
 - Existing Buildout
 - Project Construction Onsite
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5350 Wilshire - Existing Baseline Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Existing Baseline
Operational Year	2023
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Strip Mall	20.0	1000sqft	0.46	20,000	0.00	0.00	—	—

High Turnover (Sit Down Restaurant)	18.9	1000sqft	0.43	18,900	0.00	0.00	—	—
General Office Building	9.40	1000sqft	0.22	9,400	0.00	0.00	—	—
Parking Lot	28.3	1000sqft	0.65	0.00	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.	8.14	5.09	51.2	0.10	0.11	8.26	8.37	0.11	2.10	2.21	12,764
Mit.	8.14	5.09	51.2	0.10	0.11	8.26	8.37	0.11	2.10	2.21	12,397
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.68	5.51	46.1	0.10	0.11	8.26	8.37	0.11	2.10	2.20	12,307
Mit.	7.68	5.51	46.1	0.10	0.11	8.26	8.37	0.11	2.10	2.20	11,940
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	7.87	5.56	48.5	0.10	0.11	8.16	8.27	0.11	2.07	2.18	12,442

Mit.	7.87	5.56	48.5	0.10	0.11	8.16	8.27	0.11	2.07	2.18	12,075
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.44	1.01	8.86	0.02	0.02	1.49	1.51	0.02	0.38	0.40	2,060
Mit.	1.44	1.01	8.86	0.02	0.02	1.49	1.51	0.02	0.38	0.40	1,999
% 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	6.60	4.51	48.6	0.10	0.07	8.26	8.33	0.06	2.10	2.16	10,045
Area	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	8.14	5.09	51.2	0.10	0.11	8.26	8.37	0.11	2.10	2.21	12,764
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.49	4.95	45.6	0.09	0.07	8.26	8.33	0.06	2.10	2.16	9,597
Area	1.16	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	7.68	5.51	46.1	0.10	0.11	8.26	8.37	0.11	2.10	2.20	12,307

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.44	4.99	46.6	0.09	0.07	8.16	8.23	0.06	2.07	2.14	9,726
Area	1.40	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.94
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	7.87	5.56	48.5	0.10	0.11	8.16	8.27	0.11	2.07	2.18	12,442
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.18	0.91	8.51	0.02	0.01	1.49	1.50	0.01	0.38	0.39	1,610
Area	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Energy	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	338
Water	—	—	—	—	—	—	—	—	—	—	26.0
Waste	—	—	—	—	—	—	—	—	—	—	79.5
Refrig.	—	—	—	—	—	—	—	—	—	—	4.92
Total	1.44	1.01	8.86	0.02	0.02	1.49	1.51	0.02	0.38	0.40	2,060

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	6.60	4.51	48.6	0.10	0.07	8.26	8.33	0.06	2.10	2.16	10,045
Area	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	113

Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	8.14	5.09	51.2	0.10	0.11	8.26	8.37	0.11	2.10	2.21	12,397
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.49	4.95	45.6	0.09	0.07	8.26	8.33	0.06	2.10	2.16	9,597
Area	1.16	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	7.68	5.51	46.1	0.10	0.11	8.26	8.37	0.11	2.10	2.20	11,940
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	6.44	4.99	46.6	0.09	0.07	8.16	8.23	0.06	2.07	2.14	9,726
Area	1.40	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.94
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	2,043
Water	—	—	—	—	—	—	—	—	—	—	157
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	7.87	5.56	48.5	0.10	0.11	8.16	8.27	0.11	2.07	2.18	12,075
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.18	0.91	8.51	0.02	0.01	1.49	1.50	0.01	0.38	0.39	1,610
Area	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Energy	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	338
Water	—	—	—	—	—	—	—	—	—	—	26.0
Waste	—	—	—	—	—	—	—	—	—	—	18.8
Refrig.	—	—	—	—	—	—	—	—	—	—	4.92
Total	1.44	1.01	8.86	0.02	0.02	1.49	1.51	0.02	0.38	0.40	1,999

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	277
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	856
General Office Building	—	—	—	—	—	—	—	—	—	—	208
Parking Lot	—	—	—	—	—	—	—	—	—	—	34.4
Total	—	—	—	—	—	—	—	—	—	—	1,375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	277
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	856

General Office Building	—	—	—	—	—	—	—	—	—	—	208
Parking Lot	—	—	—	—	—	—	—	—	—	—	34.4
Total	—	—	—	—	—	—	—	—	—	—	1,375
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	45.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	142
General Office Building	—	—	—	—	—	—	—	—	—	—	34.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.69
Total	—	—	—	—	—	—	—	—	—	—	228

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	277
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	856
General Office Building	—	—	—	—	—	—	—	—	—	—	208
Parking Lot	—	—	—	—	—	—	—	—	—	—	34.4
Total	—	—	—	—	—	—	—	—	—	—	1,375
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	277

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	856
General Office Building	—	—	—	—	—	—	—	—	—	—	208
Parking Lot	—	—	—	—	—	—	—	—	—	—	34.4
Total	—	—	—	—	—	—	—	—	—	—	1,375
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	45.8
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	142
General Office Building	—	—	—	—	—	—	—	—	—	—	34.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	5.69
Total	—	—	—	—	—	—	—	—	—	—	228

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.24
High Turnover (Sit Down Restaurant)	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	95.3
General Office Building	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	111

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.24
High Turnover (Sit Down Restaurant)	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	95.3
General Office Building	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	111

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.34	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Total	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Total	1.16	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.19	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Total	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.34	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67

Total	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Total	1.16	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.19	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Total	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	101
General Office Building	—	—	—	—	—	—	—	—	—	—	29.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	157
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	101
General Office Building	—	—	—	—	—	—	—	—	—	—	29.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	157
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	16.8
General Office Building	—	—	—	—	—	—	—	—	—	—	4.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	26.0

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	101

General Office Building	—	—	—	—	—	—	—	—	—	—	29.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	157
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	26.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	101
General Office Building	—	—	—	—	—	—	—	—	—	—	29.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	157
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	4.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	16.8
General Office Building	—	—	—	—	—	—	—	—	—	—	4.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	26.0

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Strip Mall	—	—	—	—	—	—	—	—	—	—	39.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	424
General Office Building	—	—	—	—	—	—	—	—	—	—	16.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	480
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	39.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	424
General Office Building	—	—	—	—	—	—	—	—	—	—	16.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	480
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	70.2
General Office Building	—	—	—	—	—	—	—	—	—	—	2.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	79.5

4.5.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	9.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	100
General Office Building	—	—	—	—	—	—	—	—	—	—	3.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	9.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	100
General Office Building	—	—	—	—	—	—	—	—	—	—	3.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.55
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	16.6
General Office Building	—	—	—	—	—	—	—	—	—	—	0.64
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	18.8

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.89
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.92

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.89
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.92

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	1,841	1,841	1,841	671,965	11,649	11,649	11,649	4,251,885

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	1,841	1,841	1,841	671,965	11,649	11,649	11,649	4,251,885

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)
0	0.00	72,450	24,150	1,695

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)
Strip Mall	199,131	504	0.0489	0.0069	98,483
High Turnover (Sit Down Restaurant)	615,575	504	0.0489	0.0069	1,790,390
General Office Building	149,730	504	0.0489	0.0069	188,863
Parking Lot	24,750	504	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)
Strip Mall	199,131	504	0.0489	0.0069	98,483
High Turnover (Sit Down Restaurant)	615,575	504	0.0489	0.0069	1,790,390
General Office Building	149,730	504	0.0489	0.0069	188,863
Parking Lot	24,750	504	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)
Strip Mall	1,481,450	0.00
High Turnover (Sit Down Restaurant)	5,736,787	0.00
General Office Building	1,670,697	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	1,481,450	0.00
High Turnover (Sit Down Restaurant)	5,736,787	0.00
General Office Building	1,670,697	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	21.0	—
High Turnover (Sit Down Restaurant)	225	—
General Office Building	8.74	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	4.96	—
High Turnover (Sit Down Restaurant)	53.1	—
General Office Building	2.06	—
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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	5.47	annual days of extreme heat
Extreme Precipitation	5.55	annual days with precipitation above 20 mm
Sea Level Rise	—	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 $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	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
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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	53.7
AQ-PM	71.5
AQ-DPM	83.4
Drinking Water	92.5
Lead Risk Housing	40.0
Pesticides	0.00
Toxic Releases	75.7
Traffic	75.9
Effect Indicators	—
CleanUp Sites	21.1
Groundwater	47.4
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	28.0
Cardio-vascular	49.2
Low Birth Weights	28.4
Socioeconomic Factor Indicators	—
Education	1.77
Housing	85.5
Linguistic	17.3
Poverty	33.2
Unemployment	28.2

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	67.90709611
Employed	98.33183626
Median HI	33.87655588
Education	—
Bachelor's or higher	90.33748236
High school enrollment	100
Preschool enrollment	87.73258052
Transportation	—
Auto Access	8.494803028
Active commuting	87.92506095
Social	—
2-parent households	68.36904915
Voting	69.48543565
Neighborhood	—
Alcohol availability	4.516874118
Park access	36.45579366
Retail density	48.82586937
Supermarket access	94.25125112
Tree canopy	58.62953933
Housing	—
Homeownership	0.436288977
Housing habitability	44.02669062
Low-inc homeowner severe housing cost burden	99.12742205
Low-inc renter severe housing cost burden	49.35198255
Uncrowded housing	70.98678301

Health Outcomes	—
Insured adults	43.44924933
Arthritis	98.7
Asthma ER Admissions	78.2
High Blood Pressure	98.8
Cancer (excluding skin)	91.6
Asthma	65.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	97.7
Diagnosed Diabetes	98.9
Life Expectancy at Birth	52.3
Cognitively Disabled	99.5
Physically Disabled	96.9
Heart Attack ER Admissions	63.3
Mental Health Not Good	71.0
Chronic Kidney Disease	99.0
Obesity	79.9
Pedestrian Injuries	63.8
Physical Health Not Good	96.7
Stroke	98.4
Health Risk Behaviors	—
Binge Drinking	2.2
Current Smoker	66.4
No Leisure Time for Physical Activity	96.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	92.2
Elderly	92.9
English Speaking	43.8
Foreign-born	59.2
Outdoor Workers	74.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	81.1
Traffic Access	87.4
Other Indices	—
Hardship	6.2
Other Decision Support	—
2016 Voting	43.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	42.0
Healthy Places Index Score for Project Location (b)	74.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2023

5350 Wilshire - Existing Buildout Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Existing Buildout
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.20

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Strip Mall	20.0	1000sqft	0.46	20,000	0.00	0.00	—	—

High Turnover (Sit Down Restaurant)	18.9	1000sqft	0.43	18,900	0.00	0.00	—	—
General Office Building	9.40	1000sqft	0.22	9,400	0.00	0.00	—	—
Parking Lot	28.3	1000sqft	0.65	0.00	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.	6.48	3.49	37.8	0.09	0.10	8.25	8.35	0.09	2.09	2.19	11,122
Mit.	6.48	3.49	37.8	0.09	0.10	8.25	8.35	0.09	2.09	2.19	10,755
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.08	3.75	33.5	0.08	0.09	8.25	8.34	0.09	2.09	2.18	10,738
Mit.	6.08	3.75	33.5	0.08	0.09	8.25	8.34	0.09	2.09	2.18	10,371
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.27	3.78	35.7	0.09	0.09	8.15	8.25	0.09	2.07	2.16	10,850

Mit.	6.27	3.78	35.7	0.09	0.09	8.15	8.25	0.09	2.07	2.16	10,483
% Reduced	—	—	—	—	—	—	—	—	—	—	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.14	0.69	6.51	0.02	0.02	1.49	1.51	0.02	0.38	0.39	1,796
Mit.	1.14	0.69	6.51	0.02	0.02	1.49	1.51	0.02	0.38	0.39	1,736
% 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	4.94	2.92	35.2	0.08	0.05	8.25	8.30	0.05	2.09	2.14	8,775
Area	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.48	3.49	37.8	0.09	0.10	8.25	8.35	0.09	2.09	2.19	11,122
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.89	3.19	33.1	0.08	0.05	8.25	8.30	0.05	2.09	2.14	8,400
Area	1.16	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.08	3.75	33.5	0.08	0.09	8.25	8.34	0.09	2.09	2.18	10,738

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.85	3.21	33.8	0.08	0.05	8.15	8.20	0.05	2.07	2.12	8,505
Area	1.40	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.94
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	480
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.27	3.78	35.7	0.09	0.09	8.15	8.25	0.09	2.07	2.16	10,850
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.59	6.16	0.01	0.01	1.49	1.50	0.01	0.38	0.39	1,408
Area	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Energy	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	280
Water	—	—	—	—	—	—	—	—	—	—	22.5
Waste	—	—	—	—	—	—	—	—	—	—	79.5
Refrig.	—	—	—	—	—	—	—	—	—	—	4.92
Total	1.14	0.69	6.51	0.02	0.02	1.49	1.51	0.02	0.38	0.39	1,796

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	2.92	35.2	0.08	0.05	8.25	8.30	0.05	2.09	2.14	8,775
Area	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	113

Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.48	3.49	37.8	0.09	0.10	8.25	8.35	0.09	2.09	2.19	10,755
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.89	3.19	33.1	0.08	0.05	8.25	8.30	0.05	2.09	2.14	8,400
Area	1.16	—	—	—	—	—	—	—	—	—	—
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.08	3.75	33.5	0.08	0.09	8.25	8.34	0.09	2.09	2.18	10,371
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.85	3.21	33.8	0.08	0.05	8.15	8.20	0.05	2.07	2.12	8,505
Area	1.40	0.01	1.44	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.94
Energy	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	1,693
Water	—	—	—	—	—	—	—	—	—	—	136
Waste	—	—	—	—	—	—	—	—	—	—	113
Refrig.	—	—	—	—	—	—	—	—	—	—	29.7
Total	6.27	3.78	35.7	0.09	0.09	8.15	8.25	0.09	2.07	2.16	10,483
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.88	0.59	6.16	0.01	0.01	1.49	1.50	0.01	0.38	0.39	1,408
Area	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Energy	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	280
Water	—	—	—	—	—	—	—	—	—	—	22.5
Waste	—	—	—	—	—	—	—	—	—	—	18.8
Refrig.	—	—	—	—	—	—	—	—	—	—	4.92
Total	1.14	0.69	6.51	0.02	0.02	1.49	1.51	0.02	0.38	0.39	1,736

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	206
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	638
General Office Building	—	—	—	—	—	—	—	—	—	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	25.7
Total	—	—	—	—	—	—	—	—	—	—	1,025
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	206
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	638

General Office Building	—	—	—	—	—	—	—	—	—	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	25.7
Total	—	—	—	—	—	—	—	—	—	—	1,025
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	34.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	106
General Office Building	—	—	—	—	—	—	—	—	—	—	25.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.25
Total	—	—	—	—	—	—	—	—	—	—	170

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	206
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	638
General Office Building	—	—	—	—	—	—	—	—	—	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	25.7
Total	—	—	—	—	—	—	—	—	—	—	1,025
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	206

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	638
General Office Building	—	—	—	—	—	—	—	—	—	—	155
Parking Lot	—	—	—	—	—	—	—	—	—	—	25.7
Total	—	—	—	—	—	—	—	—	—	—	1,025
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	34.2
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	106
General Office Building	—	—	—	—	—	—	—	—	—	—	25.7
Parking Lot	—	—	—	—	—	—	—	—	—	—	4.25
Total	—	—	—	—	—	—	—	—	—	—	170

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.24
High Turnover (Sit Down Restaurant)	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	95.3
General Office Building	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	111

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7

Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	0.03	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	31.6
High Turnover (Sit Down Restaurant)	0.03	0.48	0.40	< 0.005	0.04	—	0.04	0.04	—	0.04	575
General Office Building	< 0.005	0.05	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	60.7
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.03	0.56	0.47	< 0.005	0.04	—	0.04	0.04	—	0.04	668
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.24
High Turnover (Sit Down Restaurant)	< 0.005	0.09	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	95.3
General Office Building	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	10.0
Parking Lot	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.10	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	111

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Total	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Total	1.16	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.19	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Total	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.35	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67

Total	1.51	0.02	2.10	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	8.67
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.04	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.12	—	—	—	—	—	—	—	—	—	—
Total	1.16	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.19	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98
Total	0.25	< 0.005	0.26	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.98

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	22.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	87.6
General Office Building	—	—	—	—	—	—	—	—	—	—	25.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	136
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	22.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	87.6
General Office Building	—	—	—	—	—	—	—	—	—	—	25.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	136
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	3.75
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.5
General Office Building	—	—	—	—	—	—	—	—	—	—	4.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	22.5

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	22.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	87.6

General Office Building	—	—	—	—	—	—	—	—	—	—	25.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	136
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	22.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	87.6
General Office Building	—	—	—	—	—	—	—	—	—	—	25.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	136
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	3.75
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	14.5
General Office Building	—	—	—	—	—	—	—	—	—	—	4.23
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	22.5

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

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

Strip Mall	—	—	—	—	—	—	—	—	—	—	39.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	424
General Office Building	—	—	—	—	—	—	—	—	—	—	16.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	480
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	39.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	424
General Office Building	—	—	—	—	—	—	—	—	—	—	16.5
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	480
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	6.56
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	70.2
General Office Building	—	—	—	—	—	—	—	—	—	—	2.73
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	79.5

4.5.2. Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	9.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	100
General Office Building	—	—	—	—	—	—	—	—	—	—	3.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	9.34
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	100
General Office Building	—	—	—	—	—	—	—	—	—	—	3.89
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	113
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	1.55
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	16.6
General Office Building	—	—	—	—	—	—	—	—	—	—	0.64
Parking Lot	—	—	—	—	—	—	—	—	—	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	18.8

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.89
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.92

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)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.12
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	29.5
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	29.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Strip Mall	—	—	—	—	—	—	—	—	—	—	0.02
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	4.89
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	4.92

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	1,841	1,841	1,841	671,965	11,649	11,649	11,649	4,251,885

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	1,841	1,841	1,841	671,965	11,649	11,649	11,649	4,251,885

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)
0	0.00	72,450	24,150	1,695

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)
Strip Mall	199,131	375	0.0489	0.0069	98,483
High Turnover (Sit Down Restaurant)	615,575	375	0.0489	0.0069	1,790,390
General Office Building	149,730	375	0.0489	0.0069	188,863
Parking Lot	24,750	375	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)
Strip Mall	199,131	375	0.0489	0.0069	98,483
High Turnover (Sit Down Restaurant)	615,575	375	0.0489	0.0069	1,790,390
General Office Building	149,730	375	0.0489	0.0069	188,863
Parking Lot	24,750	375	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)
Strip Mall	1,481,450	0.00
High Turnover (Sit Down Restaurant)	5,736,787	0.00
General Office Building	1,670,697	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Strip Mall	1,481,450	0.00
High Turnover (Sit Down Restaurant)	5,736,787	0.00
General Office Building	1,670,697	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	21.0	—
High Turnover (Sit Down Restaurant)	225	—
General Office Building	8.74	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Strip Mall	4.96	—
High Turnover (Sit Down Restaurant)	53.1	—
General Office Building	2.06	—
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
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	5.47	annual days of extreme heat
Extreme Precipitation	5.55	annual days with precipitation above 20 mm
Sea Level Rise	—	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 $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	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	53.7
AQ-PM	71.5
AQ-DPM	83.4
Drinking Water	92.5
Lead Risk Housing	40.0
Pesticides	0.00
Toxic Releases	75.7
Traffic	75.9
Effect Indicators	—
CleanUp Sites	21.1
Groundwater	47.4
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	28.0
Cardio-vascular	49.2
Low Birth Weights	28.4
Socioeconomic Factor Indicators	—
Education	1.77
Housing	85.5
Linguistic	17.3
Poverty	33.2
Unemployment	28.2

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	67.90709611
Employed	98.33183626
Median HI	33.87655588
Education	—
Bachelor's or higher	90.33748236
High school enrollment	100
Preschool enrollment	87.73258052
Transportation	—
Auto Access	8.494803028
Active commuting	87.92506095
Social	—
2-parent households	68.36904915
Voting	69.48543565
Neighborhood	—
Alcohol availability	4.516874118
Park access	36.45579366
Retail density	48.82586937
Supermarket access	94.25125112
Tree canopy	58.62953933
Housing	—
Homeownership	0.436288977
Housing habitability	44.02669062
Low-inc homeowner severe housing cost burden	99.12742205
Low-inc renter severe housing cost burden	49.35198255
Uncrowded housing	70.98678301

Health Outcomes	—
Insured adults	43.44924933
Arthritis	98.7
Asthma ER Admissions	78.2
High Blood Pressure	98.8
Cancer (excluding skin)	91.6
Asthma	65.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	97.7
Diagnosed Diabetes	98.9
Life Expectancy at Birth	52.3
Cognitively Disabled	99.5
Physically Disabled	96.9
Heart Attack ER Admissions	63.3
Mental Health Not Good	71.0
Chronic Kidney Disease	99.0
Obesity	79.9
Pedestrian Injuries	63.8
Physical Health Not Good	96.7
Stroke	98.4
Health Risk Behaviors	—
Binge Drinking	2.2
Current Smoker	66.4
No Leisure Time for Physical Activity	96.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0

Children	92.2
Elderly	92.9
English Speaking	43.8
Foreign-born	59.2
Outdoor Workers	74.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	81.1
Traffic Access	87.4
Other Indices	—
Hardship	6.2
Other Decision Support	—
2016 Voting	43.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	42.0
Healthy Places Index Score for Project Location (b)	74.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Carbon Intensity for 2029

5350 Wilshire - Construction Onsite v2 Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Construction Onsite v2
Construction Start Date	6/5/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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 High Rise	419	Dwelling Unit	1.74	375,464	5,755	—	986	—

High Turnover (Sit Down Restaurant)	36.7	1000sqft	0.00	36,737	0.00	—	—	—
Enclosed Parking with Elevator	443	Space	3.99	177,200	0.00	—	—	—
Other Non-Asphalt Surfaces	35.7	1000sqft	0.82	0.00	0.00	—	—	—
Recreational Swimming Pool	2.46	1000sqft	0.00	2,455	0.00	—	—	—
General Office Building	8.00	1000sqft	0.00	8,000	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.8	31.6	39.3	0.07	1.18	3.31	4.49	1.09	1.04	2.12	7,005
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.7	31.7	39.3	0.07	1.18	3.31	4.49	1.09	1.04	2.12	7,010
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.15	12.0	15.2	0.03	0.45	1.22	1.67	0.41	0.38	0.79	2,689
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.49	2.20	2.78	< 0.005	0.08	0.22	0.30	0.08	0.07	0.14	445

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)	—	—	—	—	—	—	—	—	—	—	—
2026	3.53	31.6	39.3	0.07	1.18	3.31	4.49	1.09	1.04	2.12	7,005
2027	1.08	9.70	10.6	0.02	0.26	0.01	0.27	0.24	< 0.005	0.24	1,588
2028	1.72	15.9	19.9	0.03	0.34	< 0.005	0.34	0.32	< 0.005	0.32	2,910
2029	27.8	6.07	9.29	0.01	0.20	< 0.005	0.20	0.18	< 0.005	0.18	1,452
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	3.52	31.7	39.3	0.07	1.18	3.31	4.49	1.09	1.04	2.12	7,010
2027	3.39	30.4	39.1	0.07	1.08	3.31	4.39	0.99	1.04	2.03	7,008
2028	1.72	15.9	19.9	0.03	0.34	< 0.005	0.34	0.32	< 0.005	0.32	2,911
2029	28.7	15.7	19.8	0.03	0.31	< 0.005	0.31	0.29	< 0.005	0.29	2,911
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	1.35	12.0	15.2	0.03	0.45	1.22	1.67	0.41	0.38	0.79	2,689
2027	1.24	11.1	13.0	0.02	0.33	0.48	0.82	0.31	0.15	0.46	2,134
2028	1.23	11.4	14.2	0.02	0.25	< 0.005	0.25	0.23	< 0.005	0.23	2,085
2029	8.15	2.62	3.63	0.01	0.07	< 0.005	0.07	0.06	< 0.005	0.06	551
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.25	2.20	2.78	< 0.005	0.08	0.22	0.30	0.08	0.07	0.14	445
2027	0.23	2.03	2.38	< 0.005	0.06	0.09	0.15	0.06	0.03	0.08	353
2028	0.23	2.08	2.60	< 0.005	0.04	< 0.005	0.04	0.04	< 0.005	0.04	345
2029	1.49	0.48	0.66	< 0.005	0.01	< 0.005	0.01	0.01	< 0.005	0.01	91.2

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	8.56	15.6	0.02	0.37	—	0.37	0.34	—	0.34	2,474
Demolition	—	—	—	—	—	1.04	1.04	—	0.16	0.16	—
Onsite truck	0.01	0.29	0.21	< 0.005	< 0.005	0.25	0.25	< 0.005	0.02	0.02	43.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.47	0.86	< 0.005	0.02	—	0.02	0.02	—	0.02	136
Demolition	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	22.4
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.40
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

3.3. Grading (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	2.90	24.7	30.8	0.06	1.04	—	1.04	0.96	—	0.96	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—
Onsite truck	0.08	1.86	1.40	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	24.7	30.8	0.06	1.04	—	1.04	0.96	—	0.96	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—

Onsite truck	0.07	1.95	1.44	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	289
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	8.79	11.0	0.02	0.37	—	0.37	0.34	—	0.34	2,034
Dust From Material Movement	—	—	—	—	—	0.61	0.61	—	0.31	0.31	—
Onsite truck	0.03	0.68	0.50	< 0.005	< 0.005	0.54	0.54	< 0.005	0.05	0.05	102
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.60	2.00	< 0.005	0.07	—	0.07	0.06	—	0.06	337
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—
Onsite truck	0.01	0.12	0.09	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	16.9
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. Grading (2027) - 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	2.80	23.5	30.6	0.06	0.96	—	0.96	0.89	—	0.89	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—
Onsite truck	0.07	1.93	1.44	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	285
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.50	4.56	0.01	0.14	—	0.14	0.13	—	0.13	849
Dust From Material Movement	—	—	—	—	—	0.25	0.25	—	0.13	0.13	—
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	41.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.64	0.83	< 0.005	0.03	—	0.03	0.02	—	0.02	141

Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	6.94
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

3.7. Mat Foundation (2027) - 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	2.38	18.1	13.4	0.04	0.72	—	0.72	0.66	—	0.66	2,436
Onsite truck	0.33	8.83	6.62	0.01	< 0.005	0.04	0.05	< 0.005	0.01	0.01	1,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.50	0.37	< 0.005	0.02	—	0.02	0.02	—	0.02	66.7
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	33.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.0
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.53
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 Foundation (2027) - 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	1.02	8.30	9.49	0.02	0.26	—	0.26	0.24	—	0.24	1,382
Onsite truck	0.06	1.40	1.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	8.30	9.49	0.02	0.26	—	0.26	0.24	—	0.24	1,382
Onsite truck	0.06	1.47	1.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	205
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.02	3.46	0.01	0.10	—	0.10	0.09	—	0.09	504
Onsite truck	0.02	0.52	0.40	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	74.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.63	< 0.005	0.02	—	0.02	0.02	—	0.02	83.4
Onsite truck	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2
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

3.11. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.78	16.0	19.8	0.03	0.39	—	0.39	0.36	—	0.36	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.76	3.40	0.01	0.07	—	0.07	0.06	—	0.06	496
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.24
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.50	0.62	< 0.005	0.01	—	0.01	0.01	—	0.01	82.1
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.87

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

3.13. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.71	15.7	19.7	0.03	0.34	—	0.34	0.32	—	0.32	2,879
Onsite truck	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.71	15.7	19.7	0.03	0.34	—	0.34	0.32	—	0.32	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	11.2	14.1	0.02	0.25	—	0.25	0.23	—	0.23	2,062
Onsite truck	0.01	0.15	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	21.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.05	2.57	< 0.005	0.04	—	0.04	0.04	—	0.04	341
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.56
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
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3.15. Building Construction (2029) - 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	1.66	15.5	19.6	0.03	0.31	—	0.31	0.29	—	0.29	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.42	1.81	< 0.005	0.03	—	0.03	0.03	—	0.03	265
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.72
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.33	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	43.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45
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

3.17. Building Renovation (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	0.54	4.88	6.87	0.01	0.14	—	0.14	0.13	—	0.13	979
Onsite truck	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	4.88	6.87	0.01	0.14	—	0.14	0.13	—	0.13	979
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	31.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.00	2.82	< 0.005	0.06	—	0.06	0.05	—	0.05	402
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	66.6

Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.11
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

3.19. Building Renovation (2027) - 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	0.51	4.71	6.84	0.01	0.12	—	0.12	0.11	—	0.11	979
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	59.4
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.85
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.84
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31
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

3.21. Paving (2029) - 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	0.61	5.86	9.12	0.01	0.20	—	0.20	0.18	—	0.18	1,421
Paving	0.15	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.86	9.12	0.01	0.20	—	0.20	0.18	—	0.18	1,421
Paving	0.15	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.14	1.77	< 0.005	0.04	—	0.04	0.04	—	0.04	276
Paving	0.03	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.76
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.95
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

3.23. Architectural Coating (2029) - 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	27.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.84	—	—	—	—	—	—	—	—	—	—
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	1.43	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
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

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	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—
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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	6/5/2026	7/2/2026	5.00	20.0	—
Grading	Grading	7/3/2026	3/17/2027	5.00	184	—
Mat Foundation	Building Construction	3/18/2027	3/31/2027	5.00	10.0	—
Building Foundation	Building Construction	4/1/2027	10/4/2027	5.00	133	—
Building Construction	Building Construction	10/5/2027	2/16/2029	5.00	359	—
Building Renovation	Building Construction	6/5/2026	1/31/2027	5.00	171	—
Paving	Paving	2/17/2029	5/28/2029	5.00	71.0	—
Architectural Coating	Architectural Coating	1/1/2029	5/28/2029	5.00	106	—

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	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	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Cranes	Diesel	Average	1.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	24.0	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	6.00	24.0	11.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	24.0	8.00	0.43
Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Foundation	Plate Compactors	Diesel	Average	4.00	8.00	8.00	0.43
Building Construction	Air Compressors	Diesel	Average	4.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Average	4.00	8.00	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Plate Compactors	Diesel	Average	4.00	8.00	8.00	0.43
Building Construction	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Renovation	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
Building Renovation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Building Renovation	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Building Renovation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Building Renovation	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	2.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	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	29.4	HHDT
Demolition	Onsite truck	20.0	0.12	HHDT
Grading	—	—	—	—
Grading	Worker	0.00	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	0.00	29.4	HHDT
Grading	Onsite truck	130	0.12	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	0.00	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	600	0.08	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	15.0	0.08	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 Foundation	—	—	—	—
Building Foundation	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	0.00	10.2	HHDT,MHDT
Building Foundation	Hauling	0.00	20.0	HHDT

Building Foundation	Onsite truck	100	0.08	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	15.0	0.08	HHDT
Building Renovation	—	—	—	—
Building Renovation	Worker	0.00	18.5	LDA,LDT1,LDT2
Building Renovation	Vendor	0.00	10.2	HHDT,MHDT
Building Renovation	Hauling	0.00	20.0	HHDT
Building Renovation	Onsite truck	15.0	0.08	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%

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	760,315	253,438	74,921	23,237	12,560

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	34,390	—
Grading	0.00	115,796	92.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.81

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 High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Enclosed Parking with Elevator	3.99	100%
Other Non-Asphalt Surfaces	0.82	0%
Recreational Swimming Pool	0.00	0%
General Office Building	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
2026	0.00	440	0.05	0.01
2027	2,540	418	0.05	0.01
2028	1,270	397	0.05	0.01

2029	1,270	375	0.05	0.01
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8. User Changes to Default Data

Screen	Justification
Land Use	Site Specific - see project description
Construction: Construction Phases	Site Specific - see construction assumptions
Construction: Off-Road Equipment	Site Specific - see construction assumptions
Construction: Trips and VMT	Site Specific - see construction assumptions
Construction: Electricity	Carbon Intensity
Construction: On-Road Fugitive Dust	Site Specific - see construction assumptions

5350 Wilshire - Construction Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Construction
Construction Start Date	6/5/2026
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.21

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 High Rise	419	Dwelling Unit	1.74	375,464	5,755	—	986	—

High Turnover (Sit Down Restaurant)	36.7	1000sqft	0.00	36,737	0.00	—	—	—
Enclosed Parking with Elevator	443	Space	3.99	177,200	0.00	—	—	—
Other Non-Asphalt Surfaces	35.7	1000sqft	0.82	0.00	0.00	—	—	—
Recreational Swimming Pool	2.46	1000sqft	0.00	2,455	0.00	—	—	—
General Office Building	8.00	1000sqft	0.00	8,000	—	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	28.0	62.5	55.3	0.25	1.53	11.6	13.1	1.43	3.26	4.69	36,060
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	30.3	86.0	54.8	0.35	1.53	12.0	13.3	1.43	3.27	4.69	48,212
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	8.33	24.0	32.5	0.09	0.58	4.81	5.06	0.54	1.20	1.73	13,345
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.52	4.38	5.93	0.02	0.11	0.88	0.92	0.10	0.22	0.32	2,209

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)	—	—	—	—	—	—	—	—	—	—	—
2026	4.15	62.5	55.3	0.25	1.53	11.6	13.1	1.43	3.26	4.69	36,060
2027	1.89	16.9	24.2	0.06	0.31	4.01	4.31	0.29	1.01	1.30	10,337
2028	3.45	18.5	48.5	0.04	0.35	6.79	7.14	0.32	1.60	1.93	10,463
2029	28.0	7.11	12.4	0.02	0.20	0.91	1.12	0.19	0.22	0.41	3,015
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
2026	4.12	63.9	54.8	0.25	1.53	11.6	13.1	1.43	3.26	4.69	35,960
2027	3.97	86.0	53.9	0.35	1.42	12.0	13.3	1.34	3.27	4.60	48,212
2028	3.44	18.8	44.3	0.04	0.35	6.79	7.14	0.32	1.60	1.93	10,106
2029	30.3	18.4	42.6	0.04	0.32	6.79	7.11	0.29	1.60	1.90	9,978
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	1.58	24.0	21.1	0.09	0.58	4.26	4.83	0.54	1.19	1.73	13,345
2027	1.94	20.7	25.1	0.08	0.42	4.58	4.99	0.39	1.20	1.58	11,906
2028	2.46	13.5	32.5	0.03	0.25	4.81	5.06	0.23	1.13	1.36	7,309
2029	8.33	3.09	6.36	0.01	0.07	0.79	0.86	0.06	0.19	0.25	1,509
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	0.29	4.38	3.86	0.02	0.11	0.78	0.88	0.10	0.22	0.32	2,209
2027	0.35	3.78	4.59	0.01	0.08	0.84	0.91	0.07	0.22	0.29	1,971
2028	0.45	2.46	5.93	0.01	0.05	0.88	0.92	0.04	0.21	0.25	1,210
2029	1.52	0.56	1.16	< 0.005	0.01	0.14	0.16	0.01	0.03	0.05	250

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.12	8.56	15.6	0.02	0.37	—	0.37	0.34	—	0.34	2,474
Demolition	—	—	—	—	—	1.04	1.04	—	0.16	0.16	—
Onsite truck	0.01	0.29	0.21	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	43.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.47	0.86	< 0.005	0.02	—	0.02	0.02	—	0.02	136
Demolition	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—
Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	2.42
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	22.4
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.40
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	4.55	1.69	0.03	0.05	1.09	1.14	0.05	0.30	0.35	4,171

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.16	0.00	0.00	0.04	0.04	0.00	0.01	0.01	36.2
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	0.26	0.09	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	228
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.99
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	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	37.8

3.3. Grading (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	2.90	24.7	30.8	0.06	1.04	—	1.04	0.96	—	0.96	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—
Onsite truck	0.08	1.86	1.40	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	285
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.90	24.7	30.8	0.06	1.04	—	1.04	0.96	—	0.96	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—

Onsite truck	0.07	1.95	1.44	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	289
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.03	8.79	11.0	0.02	0.37	—	0.37	0.34	—	0.34	2,034
Dust From Material Movement	—	—	—	—	—	0.61	0.61	—	0.31	0.31	—
Onsite truck	0.03	0.68	0.50	< 0.005	< 0.005	0.54	0.54	< 0.005	0.05	0.05	102
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.19	1.60	2.00	< 0.005	0.07	—	0.07	0.06	—	0.06	337
Dust From Material Movement	—	—	—	—	—	0.11	0.11	—	0.06	0.06	—
Onsite truck	0.01	0.12	0.09	< 0.005	< 0.005	0.10	0.10	< 0.005	0.01	0.01	16.9
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.33	29.6	11.0	0.17	0.34	7.09	7.42	0.34	1.94	2.28	27,113
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.18	0.22	2.76	0.00	0.00	0.65	0.65	0.00	0.15	0.15	650
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.32	30.8	11.1	0.17	0.34	7.09	7.42	0.34	1.94	2.28	27,064
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.08	1.03	0.00	0.00	0.23	0.23	0.00	0.05	0.05	235
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.12	11.1	3.94	0.06	0.12	2.50	2.62	0.12	0.69	0.81	9,646

Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.02	0.19	0.00	0.00	0.04	0.04	0.00	0.01	0.01	38.9
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	2.03	0.72	0.01	0.02	0.46	0.48	0.02	0.13	0.15	1,597

3.5. Grading (2027) - 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	2.80	23.5	30.6	0.06	0.96	—	0.96	0.89	—	0.89	5,710
Dust From Material Movement	—	—	—	—	—	1.70	1.70	—	0.88	0.88	—
Onsite truck	0.07	1.93	1.44	< 0.005	< 0.005	1.60	1.60	< 0.005	0.16	0.16	285
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.42	3.50	4.56	0.01	0.14	—	0.14	0.13	—	0.13	849
Dust From Material Movement	—	—	—	—	—	0.25	0.25	—	0.13	0.13	—
Onsite truck	0.01	0.28	0.21	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	41.9
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.64	0.83	< 0.005	0.03	—	0.03	0.02	—	0.02	141

Dust From Material Movement	—	—	—	—	—	0.05	0.05	—	0.02	0.02	—
Onsite truck	< 0.005	0.05	0.04	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	< 0.005	6.94
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.22	2.54	0.00	0.00	0.65	0.65	0.00	0.15	0.15	637
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.31	29.7	10.8	0.17	0.34	7.09	7.42	0.34	1.94	2.28	26,547
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.40	0.00	0.00	0.10	0.10	0.00	0.02	0.02	96.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.05	4.48	1.59	0.03	0.05	1.04	1.09	0.05	0.29	0.34	3,951
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.9
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	0.82	0.29	< 0.005	0.01	0.19	0.20	0.01	0.05	0.06	654

3.7. Mat Foundation (2027) - 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	2.38	18.1	13.4	0.04	0.72	—	0.72	0.66	—	0.66	2,436
Onsite truck	0.33	8.83	6.62	0.01	< 0.005	0.04	0.05	< 0.005	0.01	0.01	1,232
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.50	0.37	< 0.005	0.02	—	0.02	0.02	—	0.02	66.7
Onsite truck	0.01	0.24	0.18	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	33.4
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.09	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.0
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.53
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.17	0.22	2.54	0.00	0.00	0.65	0.65	0.00	0.15	0.15	637
Vendor	0.93	58.9	25.8	0.30	0.54	11.3	11.9	0.54	3.11	3.65	43,904
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	< 0.005	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	17.7
Vendor	0.03	1.62	0.70	0.01	0.01	0.31	0.32	0.01	0.08	0.10	1,203
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	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.94
Vendor	< 0.005	0.30	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	199
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 Foundation (2027) - 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	1.02	8.30	9.49	0.02	0.26	—	0.26	0.24	—	0.24	1,382
Onsite truck	0.06	1.40	1.07	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	202
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.02	8.30	9.49	0.02	0.26	—	0.26	0.24	—	0.24	1,382
Onsite truck	0.06	1.47	1.10	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	205
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	3.02	3.46	0.01	0.10	—	0.10	0.09	—	0.09	504
Onsite truck	0.02	0.52	0.40	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	74.0
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.07	0.55	0.63	< 0.005	0.02	—	0.02	0.02	—	0.02	83.4
Onsite truck	< 0.005	0.10	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.2
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.62	0.60	10.5	0.00	0.00	2.29	2.29	0.00	0.54	0.54	2,360
Vendor	0.19	6.58	3.13	0.04	0.04	1.71	1.76	0.04	0.47	0.52	6,389
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	0.61	0.75	8.91	0.00	0.00	2.29	2.29	0.00	0.54	0.54	2,231
Vendor	0.18	6.85	3.21	0.04	0.04	1.71	1.76	0.04	0.47	0.52	6,377

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	0.22	0.27	3.41	0.00	0.00	0.82	0.82	0.00	0.19	0.19	826
Vendor	0.07	2.51	1.16	0.02	0.02	0.62	0.63	0.02	0.17	0.19	2,325
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	0.62	0.00	0.00	0.15	0.15	0.00	0.04	0.04	137
Vendor	0.01	0.46	0.21	< 0.005	< 0.005	0.11	0.12	< 0.005	0.03	0.03	385
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 (2027) - 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	1.78	16.0	19.8	0.03	0.39	—	0.39	0.36	—	0.36	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.31	2.76	3.40	0.01	0.07	—	0.07	0.06	—	0.06	496
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.24
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.50	0.62	< 0.005	0.01	—	0.01	0.01	—	0.01	82.1
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.87

Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.74	2.16	25.4	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,373
Vendor	0.03	1.03	0.48	0.01	0.01	0.26	0.26	0.01	0.07	0.08	957
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	0.30	0.37	4.61	0.00	0.00	1.11	1.11	0.00	0.26	0.26	1,115
Vendor	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	165
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	0.05	0.07	0.84	0.00	0.00	0.20	0.20	0.00	0.05	0.05	185
Vendor	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	27.3
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.71	15.7	19.7	0.03	0.34	—	0.34	0.32	—	0.32	2,879
Onsite truck	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.71	15.7	19.7	0.03	0.34	—	0.34	0.32	—	0.32	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.3
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	11.2	14.1	0.02	0.25	—	0.25	0.23	—	0.23	2,062
Onsite truck	0.01	0.15	0.12	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	21.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.05	2.57	< 0.005	0.04	—	0.04	0.04	—	0.04	341
Onsite truck	< 0.005	0.03	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	3.56
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.71	1.70	28.2	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,617
Vendor	0.02	0.94	0.45	0.01	0.01	0.26	0.26	0.01	0.07	0.08	936
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	1.70	1.94	24.0	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,260
Vendor	0.02	0.98	0.46	0.01	0.01	0.26	0.26	0.01	0.07	0.08	935
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	1.21	1.38	18.0	0.00	0.00	4.63	4.63	0.00	1.08	1.08	4,555
Vendor	0.01	0.71	0.32	< 0.005	< 0.005	0.18	0.19	< 0.005	0.05	0.06	670
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	0.22	0.25	3.28	0.00	0.00	0.84	0.84	0.00	0.20	0.20	754
Vendor	< 0.005	0.13	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	111

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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3.15. Building Construction (2029) - 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	1.66	15.5	19.6	0.03	0.31	—	0.31	0.29	—	0.29	2,879
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	1.42	1.81	< 0.005	0.03	—	0.03	0.03	—	0.03	265
Onsite truck	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.72
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.26	0.33	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	43.8
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.45
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	1.62	1.71	22.3	0.00	0.00	6.54	6.54	0.00	1.53	1.53	6,156
Vendor	0.02	0.94	0.44	0.01	0.01	0.26	0.26	0.01	0.07	0.08	911
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	0.15	0.16	2.15	0.00	0.00	0.59	0.59	0.00	0.14	0.14	575
Vendor	< 0.005	0.09	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	83.8
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	0.03	0.03	0.39	0.00	0.00	0.11	0.11	0.00	0.03	0.03	95.2
Vendor	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	13.9
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.17. Building Renovation (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	0.54	4.88	6.87	0.01	0.14	—	0.14	0.13	—	0.13	979
Onsite truck	0.01	0.21	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.54	4.88	6.87	0.01	0.14	—	0.14	0.13	—	0.13	979
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	31.2
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.22	2.00	2.82	< 0.005	0.06	—	0.06	0.05	—	0.05	402
Onsite truck	< 0.005	0.09	0.07	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	12.7
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.37	0.52	< 0.005	0.01	—	0.01	0.01	—	0.01	66.6

Onsite truck	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	2.11
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.08	1.29	0.00	0.00	0.26	0.26	0.00	0.06	0.06	275
Vendor	0.03	1.03	0.50	0.01	0.01	0.26	0.27	0.01	0.07	0.08	979
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	0.07	0.09	1.10	0.00	0.00	0.26	0.26	0.00	0.06	0.06	260
Vendor	0.03	1.08	0.51	0.01	0.01	0.26	0.27	0.01	0.07	0.08	977
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	0.03	0.04	0.47	0.00	0.00	0.11	0.11	0.00	0.02	0.02	109
Vendor	0.01	0.45	0.21	< 0.005	0.01	0.10	0.11	< 0.005	0.03	0.03	402
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	18.0
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	66.5
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.19. Building Renovation (2027) - 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	0.51	4.71	6.84	0.01	0.12	—	0.12	0.11	—	0.11	979
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	30.8
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.29	0.42	< 0.005	0.01	—	0.01	0.01	—	0.01	59.4
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.85
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	9.84
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.31
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.09	1.02	0.00	0.00	0.26	0.26	0.00	0.06	0.06	255
Vendor	0.03	1.03	0.48	0.01	0.01	0.26	0.26	0.01	0.07	0.08	957
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	< 0.005	0.01	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.7
Vendor	< 0.005	0.06	0.03	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	< 0.005	58.1
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	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.60
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	9.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.21. Paving (2029) - 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	0.61	5.86	9.12	0.01	0.20	—	0.20	0.18	—	0.18	1,421
Paving	0.15	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.20	0.16	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.61	5.86	9.12	0.01	0.20	—	0.20	0.18	—	0.18	1,421
Paving	0.15	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.01	0.22	0.17	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	29.9
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.12	1.14	1.77	< 0.005	0.04	—	0.04	0.04	—	0.04	276
Paving	0.03	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.04	0.03	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.76
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.21	0.32	< 0.005	0.01	—	0.01	0.01	—	0.01	45.8
Paving	0.01	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.95
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.16	0.15	2.64	0.00	0.00	0.65	0.65	0.00	0.15	0.15	650
Vendor	0.02	0.90	0.43	0.01	0.01	0.26	0.26	0.01	0.07	0.08	913

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	0.16	0.17	2.23	0.00	0.00	0.65	0.65	0.00	0.15	0.15	616
Vendor	0.02	0.94	0.44	0.01	0.01	0.26	0.26	0.01	0.07	0.08	911
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	0.03	0.03	0.46	0.00	0.00	0.13	0.13	0.00	0.03	0.03	122
Vendor	< 0.005	0.18	0.08	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	177
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	0.08	0.00	0.00	0.02	0.02	0.00	0.01	0.01	20.1
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	29.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.23. Architectural Coating (2029) - 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	27.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	27.0	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	7.84	—	—	—	—	—	—	—	—	—	—
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	1.43	—	—	—	—	—	—	—	—	—	—
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)	—	—	—	—	—	—	—	—	—	—	—
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

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	—	—	—	—	—	—	—	—	—	—	—

—	—	—	—	—	—	—	—	—	—	—	—
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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	6/5/2026	7/2/2026	5.00	20.0	—
Grading	Grading	7/3/2026	3/17/2027	5.00	184	—
Mat Foundation	Building Construction	3/18/2027	3/31/2027	5.00	10.0	—
Building Foundation	Building Construction	4/1/2027	10/4/2027	5.00	133	—
Building Construction	Building Construction	10/5/2027	2/16/2029	5.00	359	—
Building Renovation	Building Construction	6/5/2026	1/31/2027	5.00	171	—
Paving	Paving	2/17/2029	5/28/2029	5.00	71.0	—
Architectural Coating	Architectural Coating	1/1/2029	5/28/2029	5.00	106	—

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	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	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74

Grading	Bore/Drill Rigs	Diesel	Average	1.00	8.00	83.0	0.50
Grading	Cranes	Diesel	Average	1.00	8.00	367	0.29
Grading	Excavators	Diesel	Average	2.00	8.00	158	0.38
Grading	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Grading	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Grading	Pumps	Diesel	Average	4.00	8.00	11.0	0.74
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Grading	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Grading	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Mat Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	24.0	10.0	0.56
Mat Foundation	Pumps	Diesel	Average	6.00	24.0	11.0	0.74
Mat Foundation	Plate Compactors	Diesel	Average	6.00	24.0	8.00	0.43
Building Foundation	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Building Foundation	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Building Foundation	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Foundation	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Foundation	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Foundation	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Foundation	Plate Compactors	Diesel	Average	4.00	8.00	8.00	0.43
Building Construction	Air Compressors	Diesel	Average	4.00	8.00	37.0	0.48
Building Construction	Aerial Lifts	Diesel	Average	4.00	8.00	46.0	0.31
Building Construction	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Building Construction	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73

Building Construction	Cranes	Electric	Average	2.00	8.00	367	0.29
Building Construction	Forklifts	Diesel	Average	2.00	8.00	82.0	0.20
Building Construction	Pumps	Diesel	Average	2.00	8.00	11.0	0.74
Building Construction	Plate Compactors	Diesel	Average	4.00	8.00	8.00	0.43
Building Construction	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Building Construction	Welders	Diesel	Average	2.00	8.00	46.0	0.45
Building Renovation	Aerial Lifts	Diesel	Average	1.00	8.00	46.0	0.31
Building Renovation	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48
Building Renovation	Forklifts	Diesel	Average	1.00	8.00	82.0	0.20
Building Renovation	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	0.37
Building Renovation	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Paving	Cement and Mortar Mixers	Diesel	Average	1.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Plate Compactors	Diesel	Average	2.00	8.00	8.00	0.43
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Skid Steer Loaders	Diesel	Average	1.00	8.00	71.0	0.37
Paving	Tractors/Loaders/Backhoes	Diesel	Average	1.00	8.00	84.0	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	50.0	18.5	LDA,LDT1,LDT2

Demolition	Vendor	0.00	10.2	HHDT,MHDT
Demolition	Hauling	40.0	29.4	HHDT
Demolition	Onsite truck	20.0	0.12	HHDT
Grading	—	—	—	—
Grading	Worker	50.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	0.00	10.2	HHDT,MHDT
Grading	Hauling	260	29.4	HHDT
Grading	Onsite truck	130	0.12	HHDT
Mat Foundation	—	—	—	—
Mat Foundation	Worker	50.0	18.5	LDA,LDT1,LDT2
Mat Foundation	Vendor	1,200	10.2	HHDT
Mat Foundation	Hauling	0.00	20.0	HHDT
Mat Foundation	Onsite truck	600	0.08	HHDT
Paving	—	—	—	—
Paving	Worker	50.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	30.0	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	15.0	0.08	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 Foundation	—	—	—	—
Building Foundation	Worker	175	18.5	LDA,LDT1,LDT2
Building Foundation	Vendor	200	10.2	HHDT,MHDT
Building Foundation	Hauling	0.00	20.0	HHDT

Building Foundation	Onsite truck	100	0.08	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	500	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	30.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	15.0	0.08	HHDT
Building Renovation	—	—	—	—
Building Renovation	Worker	20.0	18.5	LDA,LDT1,LDT2
Building Renovation	Vendor	30.0	10.2	HHDT,MHDT
Building Renovation	Hauling	0.00	20.0	HHDT
Building Renovation	Onsite truck	15.0	0.08	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%

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	760,315	253,438	74,921	23,237	12,560

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	34,390	—
Grading	0.00	115,796	92.0	0.00	—
Paving	0.00	0.00	0.00	0.00	4.81

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 High Rise	—	0%
High Turnover (Sit Down Restaurant)	0.00	0%
Enclosed Parking with Elevator	3.99	100%
Other Non-Asphalt Surfaces	0.82	0%
Recreational Swimming Pool	0.00	0%
General Office Building	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
2026	0.00	440	0.05	0.01
2027	2,540	418	0.05	0.01
2028	1,270	397	0.05	0.01

2029	1,270	375	0.05	0.01
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8. User Changes to Default Data

Screen	Justification
Land Use	Site Specific - see project description
Construction: Construction Phases	Site Specific - see construction assumptions
Construction: Off-Road Equipment	Site Specific - see construction assumptions
Construction: Trips and VMT	Site Specific - see construction assumptions
Construction: Electricity	Carbon Intensity
Construction: On-Road Fugitive Dust	Site Specific - see construction assumptions

5350 Wilshire - Construction Offsite Improvements Custom Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Construction Offsite Improvements
Construction Start Date	4/1/2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.23

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
User Defined Linear	0.50	Mile	1.00	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.62	5.33	9.71	0.02	0.20	0.43	0.63	0.18	0.11	0.29	2,183
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.13	1.10	1.95	< 0.005	0.04	0.08	0.13	0.04	0.02	0.06	431
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.02	0.20	0.36	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	71.3

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)	—	—	—	—	—	—	—	—	—	—	—
2027	0.62	5.33	9.71	0.02	0.20	0.43	0.63	0.18	0.11	0.29	2,183
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
2026	—	—	—	—	—	—	—	—	—	—	NaN
2027	0.13	1.10	1.95	< 0.005	0.04	0.08	0.13	0.04	0.02	0.06	431
2028	—	—	—	—	—	—	—	—	—	—	NaN

2029	—	—	—	—	—	—	—	—	—	—	NaN
Annual	—	—	—	—	—	—	—	—	—	—	—
2026	—	—	—	—	—	—	—	—	—	—	NaN
2027	0.02	0.20	0.36	< 0.005	0.01	0.02	0.02	0.01	< 0.005	0.01	71.3
2028	—	—	—	—	—	—	—	—	—	—	NaN
2029	—	—	—	—	—	—	—	—	—	—	NaN

3. Construction Emissions Details

3.1. Drainage Installation (2027) - 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	0.53	4.50	8.19	0.01	0.19	—	0.19	0.18	—	0.18	1,258
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.53	0.97	< 0.005	0.02	—	0.02	0.02	—	0.02	148
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.10	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.5
Dust From Material Movement	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.20	0.00	0.00	0.26	0.26	0.00	0.06	0.06	270
Vendor	0.01	0.28	0.13	< 0.005	< 0.005	0.06	0.06	< 0.005	0.02	0.02	220
Hauling	0.01	0.47	0.19	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	30.5
Vendor	< 0.005	0.03	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.9
Hauling	< 0.005	0.06	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	49.5
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	5.05
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.28
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	8.20

3.3. Paving (2027) - 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	0.47	4.46	6.89	0.01	0.18	—	0.18	0.16	—	0.16	1,049
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	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.13	0.21	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	31.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.02	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	5.24
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	0.07	0.07	1.20	0.00	0.00	0.26	0.26	0.00	0.06	0.06	270
Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	192
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	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	7.80
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	5.77
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	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	1.29
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.96

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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3.5. Excavation (2027) - 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	0.53	4.50	8.19	0.01	0.19	—	0.19	0.18	—	0.18	1,258
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	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.27	0.49	< 0.005	0.01	—	0.01	0.01	—	0.01	75.8
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	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.05	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	12.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	1.20	0.00	0.00	0.26	0.26	0.00	0.06	0.06	270
Vendor	0.01	0.20	0.09	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	192
Hauling	0.01	0.47	0.19	< 0.005	0.01	0.11	0.12	0.01	0.03	0.04	421
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	0.01	0.06	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	15.6
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	11.5
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	25.3
Annual	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	2.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	1.91
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	4.19

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Drainage Installation	Linear, Drainage, Utilities, & Sub-Grade	5/4/2027	6/30/2027	5.00	43.0	—
Paving	Linear, Paving	7/1/2027	7/15/2027	5.00	11.0	—
Excavation	Linear, Trenching	4/1/2027	4/30/2027	5.00	22.0	—

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
Drainage Installation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Drainage Installation	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Drainage Installation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36

Drainage Installation	Tractors/Loaders/Backh	Diesel	Average	1.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	1.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	1.00	8.00	36.0	0.38
Paving	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37
Excavation	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Excavation	Other Construction Equipment	Diesel	Average	1.00	8.00	82.0	0.42
Excavation	Rubber Tired Loaders	Diesel	Average	1.00	8.00	150	0.36
Excavation	Tractors/Loaders/Backh oes	Diesel	Average	1.00	8.00	84.0	0.37

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Drainage Installation	—	—	—	—
Drainage Installation	Worker	20.0	18.5	LDA,LDT1,LDT2
Drainage Installation	Vendor	6.00	10.2	HHDT
Drainage Installation	Hauling	6.00	20.0	HHDT
Drainage Installation	Onsite truck	—	—	HHDT
Excavation	—	—	—	—
Excavation	Worker	20.0	18.5	LDA,LDT1,LDT2
Excavation	Vendor	6.00	10.2	HHDT,MHDT
Excavation	Hauling	6.00	20.0	HHDT
Excavation	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	6.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

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)
------------	--	--	--	--	-----------------------------

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 (sq. ft.)	Acres Paved (acres)
Drainage Installation	200	200	1.00	0.00	—

5.6.2. Construction Earthmoving Control Strategies

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

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
User Defined Linear	1.00	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	440	0.05	0.01
2027	2,540	418	0.05	0.01
2028	1,270	397	0.05	0.01
2029	1,270	375	0.05	0.01

8. User Changes to Default Data

Screen	Justification
Land Use	Site Specific - see project description
Construction: Construction Phases	Site Specific - see construction assumptions
Construction: Off-Road Equipment	Site Specific - see construction assumptions
Construction: Trips and VMT	Site Specific - see construction assumptions
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5350 Wilshire - Operations Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	5350 Wilshire - Operations
Operational Year	2029
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	0.50
Precipitation (days)	18.4
Location	5350 Wilshire Blvd, Los Angeles, CA 90036, USA
County	Los Angeles-South Coast
City	Los Angeles
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	4316
EDFZ	16
Electric Utility	Los Angeles Department of Water & Power
Gas Utility	Southern California Gas
App Version	2022.1.1.23

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 High Rise	419	Dwelling Unit	1.74	375,464	5,755	0.00	986	—

High Turnover (Sit Down Restaurant)	36.7	1000sqft	0.00	36,737	0.00	0.00	—	—
Enclosed Parking with Elevator	443	Space	3.99	177,200	0.00	0.00	—	—
Other Non-Asphalt Surfaces	35.7	1000sqft	0.82	0.00	0.00	0.00	—	—
Recreational Swimming Pool	2.46	1000sqft	0.00	2,455	0.00	0.00	—	—
General Office Building	8.00	1000sqft	0.00	8,000	0.00	0.00	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-5	Use Advanced Engine Tiers
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.	26.9	19.9	116	0.20	0.22	17.2	17.4	0.21	4.37	4.58	28,015
Mit.	26.9	19.9	116	0.20	0.22	17.2	17.4	0.21	4.37	4.58	26,913
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Unmit.	23.2	20.1	78.6	0.19	0.20	17.2	17.4	0.19	4.37	4.56	27,134
Mit.	23.2	20.1	78.6	0.19	0.20	17.2	17.4	0.19	4.37	4.56	26,032
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.3	14.8	99.8	0.19	0.20	17.0	17.2	0.19	4.32	4.51	26,786
Mit.	24.3	14.8	99.8	0.19	0.20	17.0	17.2	0.19	4.32	4.51	25,684
% Reduced	—	—	—	—	—	—	—	—	—	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.44	2.71	18.2	0.03	0.04	3.10	3.14	0.03	0.79	0.82	4,435
Mit.	4.44	2.71	18.2	0.03	0.04	3.10	3.14	0.03	0.79	0.82	4,252
% 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	10.7	6.43	75.3	0.18	0.11	17.2	17.3	0.10	4.37	4.47	18,607
Area	13.4	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	433
Waste	—	—	—	—	—	—	—	—	—	—	1,329
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	26.9	19.9	116	0.20	0.22	17.2	17.4	0.21	4.37	4.58	28,015
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Mobile	10.6	7.02	70.9	0.17	0.11	17.2	17.3	0.10	4.37	4.47	17,830
Area	9.79	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	433
Waste	—	—	—	—	—	—	—	—	—	—	1,329
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	23.2	20.1	78.6	0.19	0.20	17.2	17.4	0.19	4.37	4.56	27,134
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.5	7.06	72.3	0.17	0.11	17.0	17.1	0.10	4.32	4.42	18,049
Area	12.3	0.21	22.9	< 0.005	0.02	—	0.02	0.01	—	0.01	71.0
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	433
Waste	—	—	—	—	—	—	—	—	—	—	1,329
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	1.51	6.74	3.84	0.01	0.01	0.00	0.01	0.01	0.00	0.01	774
Total	24.3	14.8	99.8	0.19	0.20	17.0	17.2	0.19	4.32	4.51	26,786
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.92	1.29	13.2	0.03	0.02	3.10	3.12	0.02	0.79	0.81	2,988
Area	2.24	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7
Energy	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	1,005
Water	—	—	—	—	—	—	—	—	—	—	71.7
Waste	—	—	—	—	—	—	—	—	—	—	220
Refrig.	—	—	—	—	—	—	—	—	—	—	9.96
Stationary	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128
Total	4.44	2.71	18.2	0.03	0.04	3.10	3.14	0.03	0.79	0.82	4,435

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	10.7	6.43	75.3	0.18	0.11	17.2	17.3	0.10	4.37	4.47	18,607
Area	13.4	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	347
Waste	—	—	—	—	—	—	—	—	—	—	314
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	26.9	19.9	116	0.20	0.22	17.2	17.4	0.21	4.37	4.58	26,913
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.6	7.02	70.9	0.17	0.11	17.2	17.3	0.10	4.37	4.47	17,830
Area	9.79	—	—	—	—	—	—	—	—	—	—
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	347
Waste	—	—	—	—	—	—	—	—	—	—	314
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	23.2	20.1	78.6	0.19	0.20	17.2	17.4	0.19	4.37	4.56	26,032
Average Daily	—	—	—	—	—	—	—	—	—	—	—
Mobile	10.5	7.06	72.3	0.17	0.11	17.0	17.1	0.10	4.32	4.42	18,049
Area	12.3	0.21	22.9	< 0.005	0.02	—	0.02	0.01	—	0.01	71.0
Energy	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	6,069
Water	—	—	—	—	—	—	—	—	—	—	347

Waste	—	—	—	—	—	—	—	—	—	—	314
Refrig.	—	—	—	—	—	—	—	—	—	—	60.1
Stationary	1.51	6.74	3.84	0.01	0.01	0.00	0.01	0.01	0.00	0.01	774
Total	24.3	14.8	99.8	0.19	0.20	17.0	17.2	0.19	4.32	4.51	25,684
Annual	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.92	1.29	13.2	0.03	0.02	3.10	3.12	0.02	0.79	0.81	2,988
Area	2.24	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7
Energy	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	1,005
Water	—	—	—	—	—	—	—	—	—	—	57.4
Waste	—	—	—	—	—	—	—	—	—	—	51.9
Refrig.	—	—	—	—	—	—	—	—	—	—	9.96
Stationary	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128
Total	4.44	2.71	18.2	0.03	0.04	3.10	3.14	0.03	0.79	0.82	4,252

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 High Rise	—	—	—	—	—	—	—	—	—	—	1,713
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1,954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	678
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	563
General Office Building	—	—	—	—	—	—	—	—	—	—	184
Total	—	—	—	—	—	—	—	—	—	—	5,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,713
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1,954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	678
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	563
General Office Building	—	—	—	—	—	—	—	—	—	—	184

Total	—	—	—	—	—	—	—	—	—	—	5,093
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	284
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	324
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	112
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	93.3
General Office Building	—	—	—	—	—	—	—	—	—	—	30.5
Total	—	—	—	—	—	—	—	—	—	—	843

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 High Rise	—	—	—	—	—	—	—	—	—	—	1,713
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1,954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	678

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	563
General Office Building	—	—	—	—	—	—	—	—	—	—	184
Total	—	—	—	—	—	—	—	—	—	—	5,093
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	1,713
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	1,954
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	678
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	563
General Office Building	—	—	—	—	—	—	—	—	—	—	184
Total	—	—	—	—	—	—	—	—	—	—	5,093
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	284
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	324
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	112

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	93.3
General Office Building	—	—	—	—	—	—	—	—	—	—	30.5
Total	—	—	—	—	—	—	—	—	—	—	843

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 High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	829
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	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	148
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	976
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	829
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	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	148
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	976
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	137
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	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.4
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	162

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 High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	829
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	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	148
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	976
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	829
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	0.01	0.12	0.10	< 0.005	0.01	—	0.01	0.01	—	0.01	148
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.04	0.82	0.69	< 0.005	0.06	—	0.06	0.06	—	0.06	976
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
High Turnover (Sit Down Restaurant)	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	137
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	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	24.4
General Office Building	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00
Total	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	162

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.01	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.78	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.65	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104
Total	13.4	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.01	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.78	—	—	—	—	—	—	—	—	—	—
Total	9.79	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.64	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.46	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7
Total	2.24	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7

4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.01	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.78	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.65	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104

Total	13.4	0.30	33.5	< 0.005	0.03	—	0.03	0.02	—	0.02	104
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	9.01	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.78	—	—	—	—	—	—	—	—	—	—
Total	9.79	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.64	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.14	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.46	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7
Total	2.24	0.04	4.19	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	11.7

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	239
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	170
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.22
General Office Building	—	—	—	—	—	—	—	—	—	—	21.7
Total	—	—	—	—	—	—	—	—	—	—	433
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	239
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	170
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	2.22
General Office Building	—	—	—	—	—	—	—	—	—	—	21.7
Total	—	—	—	—	—	—	—	—	—	—	433
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	39.6
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	28.2
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.37
General Office Building	—	—	—	—	—	—	—	—	—	—	3.60
Total	—	—	—	—	—	—	—	—	—	—	71.7

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	136
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.77
General Office Building	—	—	—	—	—	—	—	—	—	—	17.4
Total	—	—	—	—	—	—	—	—	—	—	347
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—

Apartments High Rise	—	—	—	—	—	—	—	—	—	—	191
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	136
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.77
General Office Building	—	—	—	—	—	—	—	—	—	—	17.4
Total	—	—	—	—	—	—	—	—	—	—	347
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	31.7
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	22.6
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.29
General Office Building	—	—	—	—	—	—	—	—	—	—	2.88
Total	—	—	—	—	—	—	—	—	—	—	57.4

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	464
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	824
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	26.4
General Office Building	—	—	—	—	—	—	—	—	—	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	1,329
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	464
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	824
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	26.4
General Office Building	—	—	—	—	—	—	—	—	—	—	14.0
Total	—	—	—	—	—	—	—	—	—	—	1,329
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	76.9
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	136
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	4.37
General Office Building	—	—	—	—	—	—	—	—	—	—	2.32
Total	—	—	—	—	—	—	—	—	—	—	220

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	110

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	195
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.23
General Office Building	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	314
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	110
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	195
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	6.23
General Office Building	—	—	—	—	—	—	—	—	—	—	3.31
Total	—	—	—	—	—	—	—	—	—	—	314
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	18.1

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	32.2
Enclosed Parking with Elevator	—	—	—	—	—	—	—	—	—	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	0.00
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	1.03
General Office Building	—	—	—	—	—	—	—	—	—	—	0.55
Total	—	—	—	—	—	—	—	—	—	—	51.9

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 High Rise	—	—	—	—	—	—	—	—	—	—	2.69
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	57.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	60.1

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2.69
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	57.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	60.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.45
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	9.51
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	9.96

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 High Rise	—	—	—	—	—	—	—	—	—	—	2.69

High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	57.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	60.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	2.69
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	57.4
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	0.01
General Office Building	—	—	—	—	—	—	—	—	—	—	0.02
Total	—	—	—	—	—	—	—	—	—	—	60.1
Annual	—	—	—	—	—	—	—	—	—	—	—
Apartments High Rise	—	—	—	—	—	—	—	—	—	—	0.45
High Turnover (Sit Down Restaurant)	—	—	—	—	—	—	—	—	—	—	9.51
Recreational Swimming Pool	—	—	—	—	—	—	—	—	—	—	< 0.005
General Office Building	—	—	—	—	—	—	—	—	—	—	< 0.005
Total	—	—	—	—	—	—	—	—	—	—	9.96

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	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128
Total	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128

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	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Total	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412

Total	2.75	12.3	7.01	0.01	0.03	0.00	0.03	0.03	0.00	0.03	1,412
Annual	—	—	—	—	—	—	—	—	—	—	—
Emergency Generator	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128
Total	0.28	1.23	0.70	< 0.005	< 0.005	0.00	< 0.005	< 0.005	0.00	< 0.005	128

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	—	—	—	—	—	—	—	—	—	—	—

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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	3,936	3,936	3,936	1,436,640	24,274	24,274	24,274	8,860,010

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	3,936	3,936	3,936	1,436,640	24,274	24,274	24,274	8,860,010

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)
760314.6	253,438	74,921	23,237	12,560

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00

Summer Days	day/yr	250
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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 High Rise	1,653,099	375	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	1,885,640	375	0.0489	0.0069	2,578,937
Enclosed Parking with Elevator	654,122	375	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	375	0.0489	0.0069	0.00
Recreational Swimming Pool	543,505	375	0.0489	0.0069	459,264
General Office Building	177,662	375	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 High Rise	1,653,099	375	0.0489	0.0069	0.00
High Turnover (Sit Down Restaurant)	1,885,640	375	0.0489	0.0069	2,578,937
Enclosed Parking with Elevator	654,122	375	0.0489	0.0069	0.00
Other Non-Asphalt Surfaces	0.00	375	0.0489	0.0069	0.00

Recreational Swimming Pool	543,505	375	0.0489	0.0069	459,264
General Office Building	177,662	375	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 High Rise	15,617,722	98,647
High Turnover (Sit Down Restaurant)	11,150,918	0.00
Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	145,196	0.00
General Office Building	1,421,870	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments High Rise	12,494,178	78,918
High Turnover (Sit Down Restaurant)	8,920,734	0.00
Enclosed Parking with Elevator	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Recreational Swimming Pool	116,157	0.00
General Office Building	1,137,496	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
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Apartments High Rise	246	—
High Turnover (Sit Down Restaurant)	437	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	14.0	—
General Office Building	7.44	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments High Rise	58.1	—
High Turnover (Sit Down Restaurant)	103	—
Enclosed Parking with Elevator	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Recreational Swimming Pool	3.30	—
General Office Building	1.76	—

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 High 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 High 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
General Office Building	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
General Office Building	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

5.14.2. Mitigated

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

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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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	1,676	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)
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5.17. User Defined

Equipment Type	Fuel Type
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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
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5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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5.18.2. Sequestration

5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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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	5.47	annual days of extreme heat
Extreme Precipitation	5.55	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 $\frac{3}{4}$ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	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	53.7
AQ-PM	71.5
AQ-DPM	83.4

Drinking Water	92.5
Lead Risk Housing	40.0
Pesticides	0.00
Toxic Releases	75.7
Traffic	75.9
Effect Indicators	—
CleanUp Sites	21.1
Groundwater	47.4
Haz Waste Facilities/Generators	72.6
Impaired Water Bodies	0.00
Solid Waste	0.00
Sensitive Population	—
Asthma	28.0
Cardio-vascular	49.2
Low Birth Weights	28.4
Socioeconomic Factor Indicators	—
Education	1.77
Housing	85.5
Linguistic	17.3
Poverty	33.2
Unemployment	28.2

7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	67.90709611

Employed	98.33183626
Median HI	33.87655588
Education	—
Bachelor's or higher	90.33748236
High school enrollment	100
Preschool enrollment	87.73258052
Transportation	—
Auto Access	8.494803028
Active commuting	87.92506095
Social	—
2-parent households	68.36904915
Voting	69.48543565
Neighborhood	—
Alcohol availability	4.516874118
Park access	36.45579366
Retail density	48.82586937
Supermarket access	94.25125112
Tree canopy	58.62953933
Housing	—
Homeownership	0.436288977
Housing habitability	44.02669062
Low-inc homeowner severe housing cost burden	99.12742205
Low-inc renter severe housing cost burden	49.35198255
Uncrowded housing	70.98678301
Health Outcomes	—
Insured adults	43.44924933
Arthritis	98.7

Asthma ER Admissions	78.2
High Blood Pressure	98.8
Cancer (excluding skin)	91.6
Asthma	65.7
Coronary Heart Disease	98.7
Chronic Obstructive Pulmonary Disease	97.7
Diagnosed Diabetes	98.9
Life Expectancy at Birth	52.3
Cognitively Disabled	99.5
Physically Disabled	96.9
Heart Attack ER Admissions	63.3
Mental Health Not Good	71.0
Chronic Kidney Disease	99.0
Obesity	79.9
Pedestrian Injuries	63.8
Physical Health Not Good	96.7
Stroke	98.4
Health Risk Behaviors	—
Binge Drinking	2.2
Current Smoker	66.4
No Leisure Time for Physical Activity	96.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	92.2
Elderly	92.9
English Speaking	43.8

Foreign-born	59.2
Outdoor Workers	74.0
Climate Change Adaptive Capacity	—
Impervious Surface Cover	1.0
Traffic Density	81.1
Traffic Access	87.4
Other Indices	—
Hardship	6.2
Other Decision Support	—
2016 Voting	43.7

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	42.0
Healthy Places Index Score for Project Location (b)	74.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	Yes
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Site Specific - see project description
Construction: Construction Phases	Site Specific - see construction assumptions
Construction: Off-Road Equipment	Site Specific - see construction assumptions
Construction: Trips and VMT	Site Specific - see construction assumptions
Construction: Electricity	Carbon Intensity
Characteristics: Utility Information	Carbon Intensity for 2029
Operations: Hearths	No Hearths
Operations: Generators + Pumps EF	SCAQMD Rule 1470
Operations: Energy Use	All Electric Building except restaurant cooking uses and propane use for grills and firepits