

Appendix C

Air Quality and Greenhouse Gas Emissions Technical Memorandum

MEMORANDUM

To: Cathy Hwang, Sandpiper Golf Trust, LLC
From: Adam Poll
Subject: Air Quality and Greenhouse Gas Emissions Technical Memorandum for the Sandpiper Golf Course Redevelopment Project
Date: April 9, 2025
cc: John Davis, Dudek
Attachment: A, CalEEMod Emissions Outputs

Dudek is pleased to submit this air quality and greenhouse gas (GHG) emissions assessment to assist Sandpiper Golf Trust, LLC (applicant) with initial environmental planning requirements for the Sandpiper Golf Course Redevelopment Project (project).

This memorandum estimates criteria air pollutant and GHG emissions and evaluates potential impacts from construction and operation of the project in accordance with the California Environmental Quality Act (CEQA) Guidelines.

The contents and organization of this memorandum are as follows:

- Section 1, Project Description
- Section 2, General Analysis and Methodology
- Section 3, Air Quality Assessment
- Section 4, Greenhouse Gas Emissions Assessment
- Section 5, Conclusions
- Section 6, References Cited

1 Project Description

The Project involves a redesign and rerouting of the existing, 18-hole golf course including a new comfort station, demolition and replacement of the existing clubhouse with a new clubhouse and restaurant building, and renovations and enhancements to the existing historic Barnsdall Gas Station. The new clubhouse will replace the existing 9,305 square foot (sf), 27-foot-high clubhouse and golf cart storage facility which were built in the 1970s and have not been significantly updated since construction. The redevelopment project will bring the golf course up to date to continue serving the community.

- **Golf Course Redesign**
 - This project proposes renovations to the existing golf course including a new golf-course routing plan to re-orient the golf course. The redesign proposes minimal cut into native soils in order to minimize ground disturbance. The project also includes sand-capping, which will require sand to be imported to the project site.
 - The design is inspired by the natural landscape and site condition of the grassy rolling hills of the course, the bluff, and the ocean. The intent is to create a building which is directly related to its spectacular setting, honoring the contours of the land blending the architecture, landscape, and transparency of the sky in the composition.
 - There will be improvements to area roadways and project entrances, such as relocation of the main entrance to be aligned with Cathedral Oaks Road, as well as landscape enhancements on Hollister Avenue.
- **Clubhouse**
 - Existing Clubhouse - The existing clubhouse will be demolished and replaced with a new, two-story clubhouse building with a basement level.
 - Proposed Clubhouse – The proposed two-story clubhouse building will include a restaurant, cocktail lounge, changing rooms, offices, back of house, and a basement level used for a golf cart storage facility.
- **Barnsdall Gas Station**
 - The historic Barnsdall Gas Station is proposed to be repaired and reinvigorated into a quick stop café for golfers and community members. It will include ample bicycle parking to attract those cycling along Hollister Avenue. The entire remodel will be to the interior of the existing building, with the exception of any repairs, painting and finishing necessary on the exterior of the building.
- **Comfort Station and Maintenance**
 - Comfort Station – A new comfort station is proposed on the golf course adjacent to the 6th green. The comfort station will have men’s and women’s restroom facilities and will include a small kitchenette for grab and go snacks and for use during events.
 - Maintenance Building – The existing 7,555 sf maintenance facility would be replaced with a 7,476 sf maintenance facility consisting of two structures. The new maintenance facility would include offices, employee restrooms, lockers, and small equipment storage in a new 4,316 sf structure, as well as vehicle and golf course equipment storage in the renovated and expanded 3,160 sf storage structure.
- **Parking**
 - The parking lot will be updated and restriped to provide ample parking and access for the Golf Course.

2 General Analysis and Methodology

2.1 Construction

Emissions from the construction phase of the proposed project were estimated using the California Emissions Estimator Model (CalEEMod), Version 2022 (CAPCOA 2023).

For the purposes of modeling, it was assumed that construction of the proposed project would commence in July 2026¹ and would last approximately 18 months, ending in December 2027. The analysis contained herein is based on the following subset area schedule assumptions (duration of phases is approximate):

- Demolition – 5 months
- Site Preparation – 2 months
- Grading – 6 months
- Building Construction – 6 months
- Paving – 2 months
- Architectural Coating – 2 months

The majority of the phases listed above would occur concurrently and would not occur sequentially in isolation. The estimated construction duration was provided by the applicant. Detailed construction equipment modeling assumptions are provided in Attachment A, CalEEMod Emissions Outputs.

The construction equipment mix used for estimating the construction emissions of the proposed project is based on information provided by the project applicant and is shown in Table 1.

Table 1. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Demolition	16	4	62	Excavators	3	8
				Rubber Tired Dozers	2	8
				Concrete/Industrial Saws	1	8
Site preparation	18	4	0	Rubber Tired Dozers	3	8
				Tractors/Loaders/Backhoes	4	8
Grading	20	4	46	Excavators	2	8

¹ The analysis assumes a construction start date of July 2026, which represents the earliest date construction would initiate. Assuming the earliest start date for construction represents the worst-case scenario for criteria air pollutant emissions because equipment and vehicle emission factors for later years would be slightly less due to more stringent standards for in-use off-road equipment and heavy-duty trucks, as well as fleet turnover replacing older equipment and vehicles in later years.

Table 1. Construction Scenario Assumptions

Construction Phase	One-Way Vehicle Trips			Equipment		
	Average Daily Worker Trips	Average Daily Vendor Truck Trips	Average Daily Haul Truck Trips	Equipment Type	Quantity	Usage Hours
Building construction	14	6	0	Graders	1	8
				Rubber Tired Dozers	1	8
				Scrapers	2	8
				Tractors/Loaders/Backhoes	2	8
				Cranes	1	8
Paving	16	4	0	Forklifts	3	8
				Generator Sets	1	8
				Tractors/Loaders/Backhoes	3	8
				Welders	1	8
				Pavers	2	8
Architectural coating	4	2	0	Paving Equipment	2	8
				Rollers	2	8
				Air Compressors	1	8

Note: See Attachment A for details.

For the analysis, it was assumed that heavy construction equipment would be operating 5 days per week (22 days per month) during proposed project construction. Construction worker and vendor trips were based on CalEEMod default assumptions and rounded up to the nearest whole number to account for whole round trips.

During demolition, the project would remove the existing structures and hardscape onsite estimated to be 23,200 tons. It was also assumed that 3,150 tons of contaminated soil may be disposed of during the demolition phase. It was assumed that the contaminated soil would be disposed of at the Simi Valley Landfill. During the grading phase, project construction would be balanced onsite. However, 60,000 tons of sand would be brought in as part of the sand-capping. It is anticipated that earth movement would be primarily, if not completely, accomplished using off-road equipment (e.g., scrapers and excavators). The CalEEMod default equipment type, quantity, and daily usage was utilized during construction.

The project would be required to comply with Santa Barbara County Air Pollution Control District (SBCAPCD) Rule 345 to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas two times per day, with additional watering depending on weather conditions. The project would be required to comply with SBCAPCD Rule 323.1 for use of architectural coatings.

A detailed depiction of the construction schedule—including information regarding phases and equipment used during each phase—is included in Attachment A of this report. The information contained in Attachment A was used as CalEEMod model inputs.

Carbon Sequestration (Loss)

This GHG analysis estimates the loss of sequestered carbon that would result from removal of trees on site during construction. The calculation methodology and default values provided in i-Tree Planting were used to estimate the one-time carbon-stock change from planting new trees based on the trees provided in the landscaping plan for the Project (i-Tree 2022). Trees sequester CO₂ while they are actively growing and the amount of CO₂ sequestered depends on the type of tree. Thereafter, the accumulation of carbon in biomass slows with age, and is assumed to be offset by losses from clipping, pruning, and occasional death. Active growing periods are subject to, among other things, species, climate regime, and planting density; however, for modeling purposes, it was assumed an active growing period of 30 years consistent with the Project lifetime. The trees to be removed were taken from the Arborist Report: Course Grading and Reconfiguration, dated July 31, 2023 (McPherson 2023) which reported a total of 51 trees to be removed during construction.

2.2 Operation

Emissions from the operational phase of the proposed project were estimated using CalEEMod. Operational year 2027 was assumed following completion of proposed construction. Emissions of the existing golf course were also estimated to present a net change analysis for GHG emissions as discussed in Section 4.1. To be consistent with the notice of preparation, the operational year for the golf course was assumed to be 2024.

Existing Golf Course

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2023). Consumer product volatile organic compound (VOC) emissions for the building is estimated in CalEEMod based on the floor area of building and on the default factor of pounds of VOC per building square foot per day. Consumer products associated with the parking lot and other asphalt surfaces include degreasers, which were estimated based on the square footage of the parking lot and the default factor of pounds of VOC per square foot per day. The CalEEMod default values for consumer products were assumed.

VOC off-gassing emissions result from evaporation of solvents contained in surface coatings such as in paints and primers used during building maintenance. CalEEMod calculates the VOC evaporative emissions from the application of surface coatings based on the VOC emission factor, building square footage, assumed fraction of surface area, and reapplication rate. The VOC emissions factor is based on the VOC content of the surface coatings, and SBCAPCD's Rule 323.1 (Architectural Coatings) governs the VOC content for interior and exterior coatings. This

rule requires manufacturers, distributors, and end users of architectural and industrial maintenance coatings to reduce VOC emissions from the use of these coatings, primarily by placing limits on the VOC content of various coating categories (SBCAPCD 2014). The proposed project would use architectural coatings that would not exceed 50 grams per liter for interior applications and 100 grams per liter for exterior applications consistent with SBCAPCD Rule 323.1. The model default reapplication rate of 10% of area per year is assumed. Consistent with CalEEMod defaults, it is assumed that the surface area for painting equals 2.7 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2023).

Energy Sources

As represented in CalEEMod, energy sources include GHG emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to GHGs, since GHG emissions occur at the site of the power plant, which is typically off site. Emissions were calculated by multiplying the energy use by the utility's carbon intensity (pounds of GHGs per megawatt-hour for electricity or 1,000 British thermal units for natural gas) for carbon dioxide (CO₂) and other GHGs. Annual electricity emissions were estimated in CalEEMod using the emissions factors for Central Coast Community Energy, which was the electricity provider for the project.

Mobile Sources

The existing golf course generates criteria pollutant and GHG emissions from mobile sources (vehicular traffic) as a result of employees and customers. The existing golf course has 35 employees and accommodates 35,368 rounds of golf per year. The estimated trip modes were based on CalEEMod defaults. CalEEMod was used to estimate emissions from proposed vehicular sources (refer to Attachment A). CalEEMod default data, including temperature, trip characteristics, variable start information, emissions factors, and trip distances, were conservatively used for the model inputs. Project-related traffic was assumed to include a mixture of vehicles in accordance with the associated use, as modeled within CalEEMod, which is based on the California Air Resources Board (CARB) EMFAC2021 model. Emission factors representing the vehicle mix and emissions for 2024 were used to estimate emissions associated with vehicular sources.

Refrigerants

Refrigerants are substances used in equipment for air conditioning (A/C) and refrigeration. Most of the refrigerants used today are HFCs or blends thereof, which can have high GWP values. All equipment that uses refrigerants has a charge size (i.e., quantity of refrigerant the equipment contains), and an operational refrigerant leak rate, and each refrigerant has a GWP that is specific to that refrigerant. 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.

Solid Waste

The proposed project would generate solid waste and would, therefore, result in CO₂ and methane (CH₄) emissions associated with landfill off-gassing. Solid waste generation was derived from the CalEEMod default rates for each residential land use type. Emission estimates associated with solid waste were estimated using CalEEMod.

Water Supply and Wastewater

Water supplied to the proposed project would require the use of electricity. Accordingly, the supply, conveyance, treatment, and distribution of water would indirectly result in GHG emissions through use of electricity. Annual water use for the proposed project and GHG emissions associated with the electricity used for water supply were calculated based upon default water use estimates for each land use type, as estimated by CalEEMod and Central Southern California Edison factors. The water use for each land type was estimated based on CalEEMod defaults. The water use for the golf course irrigation was estimated based on the landscaping plan demand and assumption that the Proposed Project would result in a 50% reduction in irrigation demand.

Proposed Project

Area Sources

CalEEMod was used to estimate operational emissions from area sources, including emissions from consumer product use, architectural coatings, and landscape maintenance equipment. Emissions associated with natural gas usage in space heating and water heating are calculated in the building energy use module of CalEEMod, as described in the following text.

Consumer products are chemically formulated products used by household and institutional consumers, including detergents; cleaning compounds; polishes; floor finishes; cosmetics; personal care products; home, lawn, and garden products; disinfectants; sanitizers; aerosol paints; and automotive specialty products. Other paint products, furniture coatings, or architectural coatings are not considered consumer products (CAPCOA 2023). Consumer product VOC emissions for the building is estimated in CalEEMod based on the floor area of building and on the default factor of pounds of VOC per building square foot per day. Consumer products associated with the parking lot and other asphalt surfaces include degreasers, which were estimated based on the square footage of the parking lot and the default factor of pounds of VOC per square foot per day. The CalEEMod default values for consumer products were assumed.

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defaults, it is assumed that the surface area for painting equals 2.7 times the floor square footage, with 75% assumed for interior coating and 25% assumed for exterior surface coating (CAPCOA 2023).

Energy Sources

As represented in CalEEMod, energy sources include GHG emissions associated with building electricity and natural gas usage (non-hearth). Electricity use would contribute indirectly to GHGs, since GHG emissions occur at the site of the power plant, which is typically off site. Emissions were calculated by multiplying the energy use by the utility's carbon intensity (pounds of GHGs per megawatt-hour for electricity or 1,000 British thermal units for natural gas) for CO₂ and other GHGs. Annual electricity emissions were estimated in CalEEMod using the emissions factors for Central Coast Community Energy, which would be the energy source provider for the proposed project.

The proposed project would be subject to the 2022 Title 24 standards, at a minimum, which went into effect on January 1, 2023. However, the CalEEMod 2022 assumes compliance with the 2019 Title 24 standards. As such, the energy use calculations would be considered conservative.

The proposed project would include electric vehicle charging stations in accordance with the California Green Building Standards Code (CALGreen) and 2022 Title 24 standards. The Project also proposed to include solar photovoltaic panels. The kilowatt-hours (kWh) from the proposed solar were estimated using the National Renewable Energy Laboratory PVWatts calculator (NREL 2025) using the estimated square footage of the system 6,272 square feet. The GHG emission benefits from installation of the 18 electric vehicle charging stations was estimated using the methodology from the County of Santa Barbara's 2030 Climate Action Plan Final Environmental Impact Report (County of Santa Barbara 2024c).

Mobile Sources

The proposed project would generate criteria pollutant and GHG emissions from mobile sources (vehicular traffic) as a result of employees and customers. The proposed project would have 56 employees and accommodates 32,000 rounds of golf per year. The estimated trip modes were based on CalEEMod defaults. CalEEMod was used to estimate emissions from proposed vehicular sources (refer to Attachment A). CalEEMod default data, including temperature, trip characteristics, variable start information, emissions factors, and trip distances, were conservatively used for the model inputs. Project-related traffic was assumed to include a mixture of vehicles in accordance with the associated use, as modeled within CalEEMod, which is based on the CARB EMFAC2021 model. Emission factors representing the vehicle mix and emissions for 2027 were used to estimate emissions associated with vehicular sources.

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Water Supply and Wastewater

Water supplied to the proposed project would require the use of electricity. Accordingly, the supply, conveyance, treatment, and distribution of water would indirectly result in GHG emissions through use of electricity. Annual water use for the proposed project and GHG emissions associated with the electricity used for water supply were calculated based upon default water use estimates for each land use type, as estimated by CalEEMod and Central Coast Community Energy factors. The water use for the Proposed Project irrigation was estimated based on the landscaping plan demand. The CalEEMod default water demand estimates for other land uses were assumed.

Carbon Sequestration (Gain)

This GHG analysis estimates the gain of sequestered carbon that would result from planting and growth of trees on site. The calculation methodology and default values provided in i-Tree Planting were used to estimate the one-time carbon-stock change from planting new trees based on the trees provided in the landscaping plan for the Project (i-Tree 2022). Trees sequester CO₂ while they are actively growing, and the amount of CO₂ sequestered depends on the type of tree. Thereafter, the accumulation of carbon in biomass slows with age, and is assumed to be offset by losses from clipping, pruning, and occasional death. Active growing periods are subject to, among other things, species, climate regime, and planting density; however, for modeling purposes, it was assumed an active growing period of 30 years consistent with the Project lifetime. The model also assumes a tree mortality of 3% over a project's lifetime. The number and type of trees to be planted was taken from the project's landscaping plan.

The sequestered carbon from new trees modeling does not include CO₂ emissions estimates associated with planting, care, and maintenance activities (e.g., tree planting and care vehicle travel and maintenance equipment operation). Landscape maintenance equipment emissions were included in the area source emission estimates included in the operational GHG emissions calculations. In addition, operational GHG emissions associated with these maintenance activities are anticipated to be minimal.

3 Air Quality Assessment

The project is located within the South Central Coast Air Basin (SCCAB) and is within the jurisdictional boundaries of the SBCAPCD, which has jurisdiction over Santa Barbara County where the project is located. Criteria air pollutants are defined as pollutants for which the federal and state governments have established ambient air quality standards, or criteria, for outdoor concentrations to protect public health. Criteria air pollutants that are evaluated include VOCs (also referred to as ROCs), oxides of nitrogen (NO_x), carbon monoxide (CO), sulfur oxides (SO_x), particulate matter with an aerodynamic diameter less than or equal to 10 microns in size (coarse particulate matter, or PM₁₀), and particulate matter with an aerodynamic diameter less than or equal to 2.5 microns in size (fine particulate matter, or PM_{2.5}). ROCs and NO_x are important because they are precursors to ozone (O₃).

3.1 Thresholds of Significance

The State of California has developed guidelines to address the significance of air quality impacts based on Appendix G of the CEQA Guidelines (14 CCR 15000 et seq.), which provides guidance that a project would have a significant environmental impact if it would:

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

In addition, Appendix G of the CEQA Guidelines indicates that where available, the significance criteria established by the applicable air district may be relied upon to determine whether the project would have a significant impact on air quality. The County has prepared criteria and thresholds for determining significance under CEQA. According to the Santa Barbara County *Environmental Thresholds and Guidelines Manual* (County of Santa Barbara 2021), a project would have a significant air quality effect on the environment if operation of the project would:

- Emit (from all project sources, both stationary and mobile) more than the daily trigger for offsets or air quality impact analysis set in the SBCAPCD New Source Review Rule, for any pollutant (i.e., 55 pounds per day for ROC or NO_x; and 80 pounds per day for PM₁₀);
- Emit 25 pounds per day or more of NO_x or ROC from motor vehicle trips only;
- Cause or contribute to a violation of any California or National Ambient Air Quality Standard (except ozone);
- Exceed the SBCAPCD health risk public notification thresholds adopted by the SBCAPCD Board for non-cancer risk; and
- Be inconsistent with the latest adopted federal and state air quality plans for Santa Barbara County.

A project will have a significant air quality impact if it causes, by adding to the existing background CO levels, a carbon monoxide "hot spot" where the California one-hour standard of 20 parts per million carbon monoxide is exceeded. This typically occurs at severely congested intersections. Project screening for CO impacts is required if projects contribute more than 800 peak hour trips to an existing congested intersection at level of service (LOS) D or below, or will cause an intersection to reach LOS D or below.

The County does not have established thresholds for construction emissions. As stated in the SBCAPCD's *Scope and Content of Air Quality Sections in Environmental Documents*, the SBCAPCD does not currently have quantitative thresholds of significance in place for short-term or construction emissions; however, the SBCAPCD uses 25 tons per year for ROC or NO_x as a guideline for determining the significance of construction impacts (SBCAPCD 2022a).

3.2 Impact Analysis

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

A project is non-conforming with an air quality plan if it conflicts with or delays implementation of any applicable attainment or maintenance plan. A project is conforming if it complies with all applicable SBCAPCD rules and regulations, complies with all proposed control measures that are not yet adopted from the applicable plan(s), and is consistent with the growth forecasts in the applicable plan(s) (or is directly included in the applicable plan). Zoning changes, specific plans, general plan amendments, and similar land use plan changes that do not increase dwelling unit density, do not increase vehicle trips, and do not increase vehicle miles traveled are also deemed to comply with the applicable air quality plan (SBCAPCD 2022a).

Consistency with land use and population forecasts in local and regional plans, including the Clean Air Plan, is required under CEQA for all projects. SBCAPCD further describes consistency with the Clean Air Plan for projects subject to these guidelines, which means that direct and indirect emissions associated with the project are accounted for in the Clean Air Plan's emissions growth assumptions, and the project is consistent with policies adopted in the Clean Air Plan. The 2022 Ozone Plan was adopted by the District Board on December 15, 2022, and is the most recent applicable air quality plan. The 2022 Ozone Plan is the 3-year update required by the state to show how the SBCAPCD plans to meet the state 1-hour and 8-hour O₃ standard (SBCAPCD 2022b). In February 2021, the CARB designated Santa Barbara County as nonattainment for the state 8-hour O₃ standards. In February 2022, the California Air Resources Board took action at a public hearing to change Santa Barbara County's designation from "unclassified" to "attainment" for the State PM_{2.5} standard, based on data measured in the County for the 3-year period from 2018 to 2020. The designation change became effective on October 10, 2022 when the California Office of Administrative Law (OAL) reviewed and approved the CARB rulemaking action. The SCCAB remains nonattainment for the state annual and 24-hour PM₁₀ standard.

The Ozone Plan relies primarily on the land use and population projections provided by the Santa Barbara County Association of Governments and CARB on-road emissions forecast as a basis for vehicle emission forecasting. The Project does not proposed any change to the existing land use on site. There also would be no increase in vehicle trips or other growth inducing factors.

The project would not conflict with or propose to substantially change existing land use or applicable land use policies as designated in the City's General Plan; therefore, the project was included in the 2022 Ozone Plan. Similarly, the project does not have any growth inducing features. As such, the project would not conflict with the applicable air quality plan. Therefore, this impact would be **less than significant**.

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

Air pollution is largely a cumulative impact. The nonattainment status of regional pollutants is a result of past and present development, and SBCAPCD develops and implements plans for future attainment of ambient air quality standards. Based on these considerations, project-level thresholds of significance for criteria pollutants

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are relevant in the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality.

Construction Emissions

Proposed construction activities would result in the temporary addition of pollutants to the local airshed caused by on-site sources (i.e., off-road construction equipment, soil disturbance, and ROC off-gassing) and off-site sources (i.e., on-road haul trucks, vendor trucks, and worker vehicle trips). Construction emissions can vary substantially from day to day, depending on the level of activity; the specific type of operation; and, for particulate matter, the prevailing weather conditions. Therefore, such emission levels can only be approximately estimated.

The CalEEMod Version 2022 was used to estimate emissions from construction of the project. Internal combustion engines used by construction equipment, trucks, and worker vehicles would result in emissions of ROCs, NO_x, CO, PM₁₀, and PM_{2.5}. PM₁₀ and PM_{2.5} emissions would also be generated by entrained dust, which results from the exposure of earth surfaces to wind from the direct disturbance and movement of soil. The project would be required to comply with SBCAPCD Rule 345 to control dust emissions generated during any dust-generating activities. Standard construction practices that would be employed to reduce fugitive dust emissions include watering of the active dust areas two times per day, with additional watering depending on weather conditions. The project would not involve application of architectural coating (e.g., paint and other finishes) during construction. Table 2 presents the estimated annual emissions generated during construction of the project. Details of the emission calculations are provided in Attachment A.

Table 2 Estimated Annual Construction Criteria Air Pollutant Emissions

Year	ROC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Tons per year					
2026	0.17	1.85	1.56	0.00	0.70	0.28
2027	0.98	3.04	3.36	0.01	0.92	0.43
Maximum	0.98	3.04	3.36	0.01	0.92	0.43
SBCAPCD Threshold	25	25	—	—	—	—
Threshold Exceeded?	No	No	—	—	—	—

Notes: ROC = reactive organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.
See Attachment A for complete results.

As shown in Table 2, the project construction would not exceed the SBCAPCD's thresholds. Therefore, construction impacts associated with criteria air pollutant emissions would be **less than significant**.

Operational Emissions

Table 3 presents the maximum daily emissions associated with the operation of the project after all phases of construction have been completed. Emissions were calculated in accordance with the methodology presented in Section 2.2, Operation. Complete details of the emissions calculations are provided in Attachment A of this document. Emissions represent maximum of summer and winter. "Summer" emissions are representative of the conditions that may occur

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during the O₃ season (May 1 to October 31), and “winter” emissions are representative of the conditions that may occur during the balance of the year (November 1 to April 30).

Table 3 Estimated Maximum Daily Operational Criteria Air Pollutant Emissions

Emission Source	ROC	NO _x	CO	SO _x	PM ₁₀	PM _{2.5}
	Pounds per Day					
Area	1.87	0.02	2.27	0.00	0.00	0.00
Energy	0.04	0.69	0.58	0.00	0.05	0.05
Mobile	0.71	0.59	4.67	0.01	0.95	0.25
Total	2.62	1.30	7.52	0.01	1.00	0.30
<i>Vehicle source emission threshold</i>	25	25	—	—	—	—
Vehicle source emissions threshold exceeded?	No	No	—	—	—	—
<i>Area + vehicle source emissions threshold</i>	55	55	—	—	80	—
Area + vehicle source emissions threshold exceeded?	No	No	—	—	No	—

Notes: VOC = volatile organic compound; NO_x = oxides of nitrogen; CO = carbon monoxide; SO_x = sulfur oxides; PM₁₀ = coarse particulate matter; PM_{2.5} = fine particulate matter.
See Attachment A for complete results.

As shown in Table 3, the project would not exceed any of the SBCAPCD operational criteria pollutant emissions thresholds. Therefore, the project would have a **less than significant** impact during operation.

Cumulative Analysis

In considering cumulative impacts from the project, the analysis must specifically evaluate a project’s contribution to the cumulative increase in pollutants for which the SCCAB is designated as nonattainment for the CAAQS and National Ambient Air Quality Standard (NAAQS). If a project’s emissions would exceed SBCAPCD’s significance thresholds, it would be considered to have a cumulatively considerable contribution to nonattainment status in the SCCAB. If a project does not exceed thresholds and is determined to have less than significant project-specific impacts, it may still contribute to a significant cumulative impact on air quality. The basis for analyzing the project’s cumulatively considerable contribution is if the project’s contribution accounts for a significant proportion of the cumulative total emissions (i.e., it represents a “cumulatively considerable contribution” to the cumulative air quality impact) and consistency with SBCAPCD’s 2022 Ozone Plan, which addresses cumulative emissions in the SCCAB.

The SCCAB has been designated as a state nonattainment area for O₃ and PM₁₀. The nonattainment status is the result of CARBs review of monitoring station data from 2018 to 2020. Construction of the project would generate ROC and NO_x emissions (which are precursors to O₃). As indicated in Table 2, project-generated construction emissions would not exceed the City’s emission-based significance thresholds for ROC, NO_x, CO, SO₂, PM₁₀, or PM_{2.5}. The project would also not exceed the SBCAPCD criteria air pollutant emissions during operations.

Cumulative localized impacts would potentially occur if a construction project were to occur concurrently with another off-site project. Construction schedules for potential future projects near the project site are currently unknown; therefore, potential construction impacts associated with two or more simultaneous projects would be speculative.² However, future projects would be subject to CEQA and would require an air quality analysis and, where necessary, mitigation if the project would exceed SBCAPCD's significance thresholds. Criteria air pollutant emissions associated with construction activity of future proposed projects would be reduced through implementation of control measures required by SBCAPCD. Cumulative PM₁₀ and PM_{2.5} emissions would be reduced because all future projects would be subject to SBCAPCD Rule 345, which sets forth general and specific requirements for all construction sites in the SBCAPCD.

Based on the previous considerations, the project would not result in a cumulatively considerable increase in emissions of nonattainment pollutants, and cumulative impacts would be **less than significant**.

3.2.3 Would the project expose sensitive receptors to substantial pollutant concentrations?

Health Impacts of Toxic Air Contaminants

A substance is considered toxic if it has the potential to cause adverse health effects in humans, including increasing the risk of cancer upon exposure, or acute (immediate) and/or chronic (cumulative) non-cancer health effects. A toxic substance released into the air is considered a TAC. Adverse health effects associated with exposure to TACs may include carcinogenic (i.e., cancer-causing) and noncarcinogenic effects. Noncarcinogenic effects typically affect one or more target organ systems and may be experienced on either short-term (acute) or long-term (chronic) exposure to a given TAC. There are existing residences across the street from the project on Santa Barbara and Cota Streets. A childcare center is also located across the street from the project site on Cota Street.

TACs are identified by federal and state agencies based on a review of available scientific evidence. In the State of California, TACs are identified through a two-step process that was established in 1983 under the Toxic Air Contaminant Identification and Control Act. This two-step process of risk identification and risk management and reduction was designed to protect residents from the health effects of toxic substances in the air. In addition, the California Air Toxics "Hot Spots" Information and Assessment Act, AB 2588, was enacted by the legislature in 1987 to address public concern over the release of TACs into the atmosphere.

Examples include certain aromatic and chlorinated hydrocarbons, certain metals, and asbestos. TACs are generated by a number of sources, including stationary sources such as dry cleaners, gas stations, combustion sources, and laboratories; mobile sources such as automobiles; and area sources such as landfills.

Project construction would result in emissions of DPM from heavy construction equipment and trucks accessing the site. DPM is characterized as a TAC by the State of California. The OEHHA has identified carcinogenic and chronic noncarcinogenic effects from long-term exposure, but has not identified health effects due to short-term exposure to diesel exhaust. According to OEHHA, HRAs, which determine the exposure of sensitive receptors to toxic

² The CEQA Guidelines state that if a particular impact is too speculative for evaluation, the agency should note its conclusion and terminate discussion of the impact (14 CCR 15145). This discussion is nonetheless provided in an effort to show good-faith analysis and to comply with CEQA's information disclosure requirements.

emissions, should be based on a 30-year exposure period for the maximally exposed individual resident (MEIR); however, such assessments should be limited to the period/duration of activities associated with the project (18 months). The project is bounded by industrial uses to the west, Hollister Avenue to the north, the Pacific Ocean to the south, and residential to the east. The closest sensitive receptor is 60 feet north of the property boundary, nearest to the Barnsdall/Maintenance area. The closest sensitive receptor to the clubhouse is residential 630 feet to the east. The golf course contouring would occur between 210 and 1,800 feet away from existing residential areas. While the construction schedule is not granular at this point for each component of the project, based on the building square footage it is reasonable to assume the clubhouse would consist of approximately 80% (14 months) of the construction duration with the Barnsdall/Maintenance area consisting of approximately 20% (4 months). Grading would consist of 6 months duration. Emissions during construction would not be concentrated in one area of the site, but would be spread over the entirety of the disturbed areas. Emissions would not be continuous and would cease once construction is complete. Furthermore, the Ellwood meteorological station shows predominant winds blowing from northeast to southwest, away from the closest sensitive receptors (SBCAPCD 2018). Therefore, the project would not expose sensitive receptors to substantial quantities of TACs during construction. Impacts would be **less than significant**.

During operation, the project would not result in an increase in TAC emissions. The impact to sensitive receptors would be **less than significant** during operation.

Health Impacts of Carbon Monoxide

Mobile-source impacts occur on two basic scales of motion. Regionally, project-related travel would add to regional trip generation and increase the VMT within the local airshed and the SCCAB. Locally, project-related traffic would be added to the City's roadway system. If such traffic occurs during periods of poor atmospheric ventilation, consists of a large number of vehicles "cold-started" and operating at pollution-inefficient speeds, and operates on roadways already crowded with non-project traffic, there is a potential for the formation of microscale CO hotspots in the area immediately around points of congested traffic. Because of continued improvement in mobile emissions at a rate faster than the rate of vehicle growth and/or congestion, the potential for CO hotspots in the SCCAB is steadily decreasing.

Projects contributing to adverse traffic impacts may result in the formation of CO hotspots. Projects contributing more than 800 peak hour trips to an existing congested intersection at level of service (LOS) D or below, or will cause an intersection to reach LOS D or below, may be required to model for CO impacts. As discussed in Section 2.2, there would be no change in mobile sources beyond the existing conditions for the Project. Therefore, a CO hotspot analysis is not needed and the proposed project would have a **less than significant** impact.

Health Impacts of Other Criteria Air Pollutants

Construction and operation of the proposed project would not result in emissions that exceed the SBCAPCD's emission thresholds for any criteria air pollutants. Regarding VOCs, some VOCs are associated with motor vehicles and construction equipment, while others are associated with architectural coatings, the emissions of which would not result in the exceedances of the SBCAPCD's thresholds. Generally, the VOCs in architectural coatings are of relatively low toxicity. Additionally, SBCAPCD Rule 323.1 restricts the VOC content of coatings for both construction and operational applications.

In addition, VOCs and NO_x are precursors to O₃, for which the SCCAB is designated as attainment with respect to the NAAQS and nonattainment for the CAAQS. The health effects associated with O₃ are generally associated with reduced

lung function. The contribution of VOCs and NO_x to regional ambient O₃ concentrations is the result of complex photochemistry. The increases in O₃ concentrations in the SCCAB due to O₃ precursor emissions tend to be found downwind from the source location to allow time for the photochemical reactions to occur. However, the potential for exacerbating excessive O₃ concentrations would also depend on the time of year that the VOC emissions would occur, because exceedances of the O₃ ambient air quality standards tend to occur between April and October when solar radiation is highest.

Regarding NO₂, according to the construction emissions analysis, construction of the proposed project would not contribute to exceedances of the NAAQS and CAAQS for NO₂. Health impacts from exposure to NO₂ and NO_x are associated with respiratory irritation, which may be experienced by nearby receptors during the periods of heaviest use of off-road construction equipment. However, these operations would be relatively short term. Additionally, off-road construction equipment would operate at various portions of the site and would not be concentrated in one portion of the site at any one time. Construction of the proposed project would not require any stationary emission sources that would create substantial, localized NO_x impacts. Therefore, health impacts would be considered **less than significant**.

The VOC and NO_x emissions, as described previously, would minimally contribute to regional O₃ concentrations and its associated health effects. In addition to O₃, NO_x emissions would not contribute to potential exceedances of the NAAQS and CAAQS for NO₂. Thus, it is not expected that the proposed project's operational NO_x emissions would result in exceedances of the NO₂ standards or contribute to the associated health effects. CO tends to be a localized impact associated with congested intersections. The associated CO hotspots were discussed previously as a less than significant impact. Thus, the proposed project's CO emissions would not contribute to significant health effects associated with this pollutant. Likewise, PM₁₀ and PM_{2.5} would not contribute to potential exceedances of the NAAQS and CAAQS for particulate matter, would not obstruct the SCCAB from coming into attainment for these pollutants, and would not contribute to significant health effects associated with particulates.

Based on the preceding considerations, health impacts associated with criteria air pollutants would be **less than significant**.

3.2.4 Would the project create objectionable odors affecting a substantial number of people?

The occurrence and severity of potential odor impacts depends on numerous factors. The nature, frequency, and intensity of the source; the wind speeds and direction; and the sensitivity of receiving location each contribute to the intensity of the impact. Although offensive odors seldom cause physical harm, they can be annoying and cause distress among the public and generate citizen complaints.

Odors would be potentially generated from vehicles and equipment exhaust emissions during construction of the project. Potential odors produced during construction would be attributable to concentrations of unburned hydrocarbons from tailpipes of construction equipment and asphalt pavement application. Such odors would disperse rapidly from the project site and generally occur at magnitudes that would not affect substantial numbers of people. Therefore, impacts associated with odors during construction would be **less than significant**.

Land uses and industrial operations associated with odor complaints include fast food restaurants, bakeries, coffee roasting facilities, agricultural uses, wastewater treatment plants, food-processing plants, chemical plants, composting operations, refineries, landfills, dairies, and fiberglass molding facilities (SBCAPCD 2022a). The project

would include food preparation at the Barnsdall Gas Station. However, odors are anticipated to be similar to a café, not a fast-food restaurant. Therefore, project operations would result in an odor impact that is **less than significant**.

4 Greenhouse Gas Emissions Assessment

GHGs are gases that absorb infrared radiation in the atmosphere. The greenhouse effect is a natural process that contributes to regulating the Earth's temperature. Global climate change concerns are focused on whether human activities are leading to an enhancement of the greenhouse effect. Principal GHGs include CO₂, CH₄, nitrous oxide (N₂O), O₃, and water vapor. If the atmospheric concentrations of GHGs rise, the average temperature of the lower atmosphere will gradually increase. Globally, climate change has the potential to impact numerous environmental resources through uncertain impacts related to future air temperatures and precipitation patterns. Although climate change is driven by global atmospheric conditions, climate change impacts are felt locally. Climate change is already affecting California. Average temperatures have increased, leading to more extreme hot days and fewer cold nights; shifts in the water cycle have been observed, with less winter precipitation falling as snow, and both snowmelt and rainwater running off earlier in the year; sea levels have risen; and wildland fires are becoming more frequent and intense due to dry seasons that start earlier and end later (CAT 2010).

The effect each GHG has on climate change is measured as a combination of the mass of its emissions and the potential of a gas or aerosol to trap heat in the atmosphere, known as its global warming potential (GWP), which varies among GHGs. Total GHG emissions are expressed as a function of how much warming would be caused by the same mass of CO₂. Thus, GHG emissions are typically measured in terms of pounds or tons of CO₂ equivalent (CO₂e). The CO₂e for a gas is derived by multiplying the mass of the gas by the associated GWP, such that metric tons (MT) of CO₂e = (MT of a GHG) × (GWP of the GHG). CalEEMod assumes that the GWP for CH₄ is 25, which means that emissions of 1 MT of CH₄ are equivalent to emissions of 25 MT of CO₂, and the GWP for N₂O is 298, based on the Intergovernmental Panel on Climate Change's Fourth Assessment Report (IPCC 2007).

4.1 Thresholds of Significance

The significance criteria used to evaluate the project's GHG emissions impacts are based on the recommendations provided in Appendix G of the CEQA Guidelines. For the purposes of this GHG emissions analysis, the project would have a significant environmental impact if it would (14 CCR 15000 et seq.):

1. Generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment; or
2. Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of GHGs.

As stated in CEQA Guidelines Section 15064.4(b)(1)-(3),

a lead agency should consider the following factors, among others, when assessing the significance of impacts from GHG emissions on the environment: (1) the extent to which a project may increase or reduce GHG emissions as compared to the existing environmental setting; (2) whether project emissions exceed a threshold of significance that the lead agency determines applies to the project; and, (3) the extent to which the project complies with regulations or

requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of greenhouse gas emissions.

Section 15064(h)(3) of the CEQA Guidelines also states that

[a] lead agency may determine that a project's incremental contribution to a cumulative effect is not cumulatively considerable if the project will comply with the requirements in a previously approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area in which the project is located.

The CEQA Guidelines do not prescribe specific methodologies for performing an assessment, do not establish specific quantitative thresholds of significance, and do not mandate specific mitigation measures. Rather, the CEQA Guidelines emphasize the lead agency's discretion to determine the appropriate methodologies and thresholds of significance consistent with the manner in which other impact areas are handled in CEQA (CNRA 2009).

The OPR Technical Advisory titled *CEQA and Climate Change: Addressing Climate Change through California Environmental Quality Act Review* states that

public agencies are encouraged but not required to adopt thresholds of significance for environmental impacts. Even in the absence of clearly defined thresholds for GHG emissions, the law requires that such emissions from CEQA projects must be disclosed and mitigated to the extent feasible whenever the lead agency determines that the project contributes to a significant, cumulative climate change impact. (OPR 2008)

Furthermore, the advisory document indicates that "in the absence of regulatory standards for GHG emissions or other scientific data to clearly define what constitutes a 'significant impact,' individual lead agencies may undertake a project-by-project analysis, consistent with available guidance and current CEQA practice."

Global climate change is a cumulative impact; a project participates in this potential impact through its incremental contribution combined with the cumulative increase of all other sources of GHGs. There are currently no established quantitative thresholds for assessing whether the GHG emissions of a project, such as the project, would be considered a cumulatively considerable contribution to global climate change; however, all reasonable efforts should be made to minimize a project's contribution to global climate change. In addition, while GHG impacts are recognized exclusively as cumulative impacts (CAPCOA 2008), GHG emissions impacts must also be evaluated on a project-level under CEQA.

County of Santa Barbara

The County adopted the 2030 Climate Action Plan (CAP) on August 27, 2024 (County of Santa Barbara 2024a). The County also adopted an updated GHG significance threshold guideline that provides thresholds for different types of projects needing discretionary approval through CEQA (County of Santa Barbara 2024b). Thresholds of significance supplement provisions in the Guidelines for Implementation of the California Environmental Quality Act (CEQA Guidelines) for the determination of significant environmental effects, including Sections 15064, 15065, 15382, and Appendix G incorporated herein.

For CEQA Checklist question 1, the thresholds that apply to land use development projects, which include both project level residential and non-residential development and plans (e.g., specific plans and community plans). These thresholds would not apply to GHG-emitting power plants, oil and gas facilities, or other industrial stationary sources as the County has an adopted bright line threshold of 1,000 MT CO₂e per year for industrial stationary sources. The thresholds will only apply to non-exempt discretionary projects under CEQA. Applicants first compare non-exempt project applications using the County's CAP Consistency Checklist. If the Project is consistent with all CAP Checklist items it would result in a less than significant GHG impact. If the provided answers and explanations do not demonstrate consistency with the 2030 CAP (i.e., the project or plan is not complying with the 2030 CAP measures) the project or plan cannot be tiered off of the 2030 CAP PEIR, and it must be reviewed subject to the quantitative thresholds that follows: residential projects shall not exceed 2.68 MT CO₂e per resident; non-residential projects that are not subject to SBCAPCD stationary source permitting shall not exceed 2.63 MT CO₂e per employee; and mixed-use projects shall not exceed 2.67 MT CO₂e per service person (residents plus employees). Projects with GHG emissions less than the Significance Threshold would normally result in an insignificant impact and, therefore, would not require further analyses or studies. The Guidelines also state that the County shall request other CEQA lead agencies and NEPA lead agencies to use the thresholds when the County is a CEQA responsible agency for a project.

For CEQA Checklist 2, The Board adopted the 2030 CAP in 2024 as the County's GHG emission reduction plan. The County will implement the 2030 CAP including all measures and actions included in the 2030 CAP, in an effort to achieve the goal of a 50 percent reduction from 2018 levels by 2030, and the long-term aspirational goal of carbon neutrality by 2045. The GHG emissions thresholds are part of the 2030 CAP GHG emissions reduction strategy, and are informed by the County's 2030 emissions reduction target. The GHG emissions thresholds provide a pathway for projects and plans to show compliance with County goals. The 2030 CAP GHG emission reduction goal (50 percent reduction from 2018 levels by the year 2030) is consistent with the State's direction under Senate Bill 32 as codified in the California Health and Safety Code, Division 25.5, Part 4, Section 38566 (40 percent reduction below 1990 levels by 2030). CARB's 2017 Scoping Plan and 2022 update (CARB, 2017 and 2022) describes the State's strategy for achieving California's 2030 GHG emission reduction target. The Scoping Plan does not prescribe or require specific actions by local government agencies; rather, the Scoping Plan provides guidance to local agencies and CARB supports programs that assist local agencies. Local government efforts to reduce emissions within their jurisdiction are critical to achieving the State's long term GHG goals, and can also provide important co-benefits, such as improved air quality, local economic benefits, more sustainable communities, and an improved quality of life.

CARB recommends statewide targets of no more than 6 MT CO₂e per capita by 2030, and no more than 2 MT CO₂e per capita by 2050. The statewide per capita targets account for all emissions sectors in the State, statewide population forecasts, and the statewide reductions necessary to achieve the 2030 statewide target under SB 32 and the longer term State emissions reduction goal of 80 percent below 1990 levels by 2050. This limit represents California's and these other governments' recognition of their "fair share" to reduce GHG emissions to the scientifically based levels to limit global warming below two degrees Celsius. CARB recommends that local governments evaluate and adopt robust and quantitative locally- appropriate goals that align with the statewide per capita targets and the State's sustainable development objectives and develop plans to achieve the local goals.

The County’s GHG emission efficiency threshold is considerably lower than the State’s 2030 per capita target. Therefore, analysts can apply the County’s threshold with confidence that it aids the State in achieving its target, as well.

City of Goleta

The City does not have an adopted GHG threshold or qualified GHG reduction plan for the project to tier off. Therefore, the County of Santa Barbara’s GHG Threshold of 2.63 MT CO₂e per employee will be applied to the project. In addition, the Project is evaluated based on consistency with the 2022 Scoping Plan, SBCAG 2050 Regional Transportation Plan/Sustainable Community Strategy (RTP/SCS), City of Goleta General Plan/Coastal Land Use Plan, and City of Goleta CAP for the purposes of reducing GHG emissions and mitigating the effects of climate change.

4.2 Impact Analysis

4.2.1 Would the project generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Construction Emissions

Construction of the project would result in GHG emissions, which are primarily associated with use of off-road construction equipment, on-road vendor and haul trucks, and worker vehicles. In accordance with the County’s Guidelines, construction emissions are to be amortized over the life of the project, which is assumed to be 30 years (County of Santa Barbara 2024).

CalEEMod was used to estimate GHG emissions during construction. Construction of the project is anticipated to last up to 18 months. On-site sources of GHG emissions include off-road equipment and off-site sources include on-road vehicles (haul trucks, vendor trucks, and worker vehicles). Table 4 presents construction GHG emissions for the project from on-site and off-site emission sources.

Table 4 Estimated Annual Construction Greenhouse Gas Emissions

Year	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons			
2026	471.56	0.02	0.04	483.83
2027	839.55	0.04	0.18	852.16
Total				1,335.99

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent.
See Attachment A for complete results.

As shown in Table 4, the estimated total GHG emissions during construction of the project would be approximately 1,336 MT CO₂e. Amortized over 30 years, the construction GHG emissions would be 44.53 MT CO₂e per year. This will be added to the operational emissions to compare to the significance threshold.

Memorandum

Subject: Air Quality and Greenhouse Gas Emissions Technical Memorandum for the Sandpiper Golf Course Redevelopment Project

Operational Emissions

CalEEMod was used to estimate potential project-generated operational GHG emissions from area, energy, mobile, refrigerants, solid waste, and water and wastewater sources (electricity). Operational year 2027 was assumed upon completion of construction for the proposed project and year 2024 for the existing golf course. The estimation of operational energy emissions was based on the methodology presented in Section 2.2. Table 5 presents the GHG emissions of the project during operation, the existing golf course, and the net change in GHG emissions.

Table 5 Estimated Annual Operation Greenhouse Gas Emissions

Emissions Source	CO ₂	CH ₄	N ₂ O	CO ₂ e
	Metric Tons per Year			
Proposed Project				
Area	0.76	0.00	0.00	0.76
Energy	212.73	0.02	0.00	213.76
Mobile ^a	146.44	0.01	0.01	149.52
Refrigerants	0.00	0.00	0.00	1.95
Solid Waste	33.07	3.31	0.00	115.71
Water and Wastewater	38.78	0.01	0.01	40.71
Vegetation	-14.97	0.00	0.0	-14.97
Total				507.44
Amortized Construction Emissions				44.53
Total with Amortized Construction Emissions				551.97
Existing Golf Course				
Area	0.28	0.00	0.00	0.28
Energy	88.83	0.01	0.00	89.16
Mobile	201.14	0.01	0.01	205.06
Refrigerants	0.00	0.00	0.00	0.52
Solid Waste	21.83	2.18	0.00	76.38
Water and Wastewater	130.65	0.01	0.00	132.00
Total				503.39
Net GHG Emissions (Proposed Project minus Existing Golf Course)				48.58
Net Employees (Proposed Project minus Existing Golf Course)				21
GHG Efficiency (MT CO ₂ e per employee per year)				2.31
GHG Threshold (MT CO ₂ e per employee per year)				2.63
Exceeds Threshold				No

Notes: CO₂ = carbon dioxide; CH₄ = methane; N₂O = nitrous oxide; CO₂e = carbon dioxide equivalent.

^a Includes emissions reductions from installation of 18 electric vehicle chargers.

Parentheses represents a net negative value.

See Attachment A for complete results.

As shown in Table 5, the proposed project would result in a net GHG efficiency of 2.31 MT CO₂e per employee per year which would be below the significance threshold. As such, impacts associated with directly or indirectly generating a significant quantity of GHG emissions would be **less than significant**.

4.2.2 Would the project conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases?

2022 CARB Scoping Plan

The 2022 Scoping Plan reflects the statewide 2030 target of a 40% reduction below 1990 emissions levels codified by SB 32 and the statewide 2045 target of an 85% reduction below 1990 emissions levels and carbon neutrality codified by AB 1279. Table 6 evaluates the Proposed Project's potential to conflict with the 2022 Scoping Plan, and specifically the project attributes identified by CARB to reduce operational GHG emissions identified in Appendix D of the 2022 Scoping Plan (CARB 2022). Per the Scoping Plan, empirical evidence shows that residential development projects that are consistent with the Appendix D project attributes to reduce GHG emissions will accommodate growth in a manner that aligns with the GHG and equity goals of SB 32. Additionally, consistency with the Appendix D project attributes will ensure that projects are addressing the largest sources of their operational emissions, are in alignment with the priority areas defined by CARB for Local Climate Action, and are in alignment with the state's climate goals.

Table 6 Project Potential to Conflict with Appendix D of the 2022 Scoping Plan

Project Attributes	Potential to Conflict Prior to Mitigation
Transportation Electrification	
Provide EV charging infrastructure at least in accordance with CALGreen Tier 2 standards	No conflict. The Project would include 18 electric vehicle charging spaces.
VMT Reduction	
Is located on infill sites that are surrounded by existing urban uses and reuses or redevelop previously undeveloped or underutilized land presently served by existing utilities and essential public services (e.g., transit, streets, water, sewer)	No conflict. The Project would be sited on the existing developed golf course. The Proposed Project would not convert existing natural or working lands.
Do not result in the loss or conversion of the State's natural and working lands	No conflict. The Project would not convert existing natural or working lands.
Consists of transit-supportive densities (minimum of 20 residential dwelling units/acre), or In in proximity to existing transit (within ½ mile), or Satisfies more detailed and stringent criteria specified in the region's Sustainable Communities Strategy (SCS)	No conflict. The Project does not include residential but is less than 300 feet from an existing MTD bus stop at Hollister and Cathedral Oaks.
Relax parking requirements by: Eliminating parking requirements or including maximum allowable parking ratios.	No conflict. The Project would add 26 parking spaces above existing conditions consisting of 18 electric vehicle charging spaces and 8 accessible parking spaces.

Table 6 Project Potential to Conflict with Appendix D of the 2022 Scoping Plan

Project Attributes	Potential to Conflict Prior to Mitigation
- Providing residential parking supply at a ratio of <1 parking space per unit. - Unbundling residential parking costs from costs to rent or lease.	
At least 20 percent of the units are affordable to lower-income residents	No conflict. The Project does not include residential.
Result in no net loss of existing affordable units	No conflict. The Project would not result in a net loss of existing affordable residential units.
Building Decarbonization	
Use all electric appliances, without any natural gas connections, and would not use propane or other fossil fuels for space heating, water heating, or indoor cooking	No conflict. The Project is currently provided with natural gas and this would not change with the updates. The Project would include electric appliances to the extent feasible and consistent with requirements within the Title 24 building codes.

Source: CARB 2022.

Notes: EV = electric vehicle; CALGreen = California Green Building Standards; VMT = vehicle miles traveled.

As shown in Table 6, the Project is consistent with the project attributes that reduce GHG emissions identified by the 2022 Scoping Plan. According to the 2022 Plan, these attributes are a guide to determine projects that are clearly consistent with the state's climate strategy for CEQA purposes and are not necessarily required, and a project that incorporates some but not all of the key project attributes may still be consistent with the state's climate goals.

SBCAG 2050 RTP/SCS

SBCAG has incorporated a sustainable community strategy into its RTP/SCS, which is designed to help the region achieve its SB 375 GHG emissions reduction target. The SBCAG 2050 RTP/SCS demonstrates that the SBCAG region would achieve its regional emissions reduction targets for the 2020 and 2035 target years. The Environment Objective 1 of the RTP/SCS is to "promote better balance of jobs and housing to reduce long-distance commuting" (SBCAG 2021). The project would site new jobs within close proximity to residents within the urban boundary of Goleta and therefore would be consistent with Objective 1. Furthermore, in support of Environment Objective 5 of "reduce vehicle miles traveled," the Project would reduce the number of golf rounds per year from 35,368 to 32,000 and would not result in an increase in special events per year. Therefore, this would result in a reduction in VMT at the site and would be consistent with Objective 5.

City of Goleta General Plan

In October 2006, the City of Goleta adopted the Goleta General Plan/Coastal Land Use Plan (General Plan) to provide the City with a consistent framework for land use decisions. The General Plan includes the State-required elements, and a conservation element that promotes energy efficiency strategies to reduce GHG emissions. The General Plan addresses recently emerging topics of climate change and alternative energy. The general plan lists several policies as part of its Transportation and Conservation Element that support GHG emission reductions. The proposed project would be consistent with Policy CE-15.3 of the Conservation Element by incorporating water efficient fixtures to reduce water consumption for landscaping, plumbing, and irrigation consistent with the latest

Title 24 Green Building Code and Building Energy Efficiency Standards as well as a water recycling system for the cart wash. The aging irrigation system would be removed and replaced, which would reduce water footprint and maximize water use efficiency and water conservation. Similar to the existing irrigation system, the new irrigation system would continue to use reclaimed water and would consist of a combination of drip, rotor, or drip/rotor irrigation. Additionally, a smart irrigation controller system would be implemented to manage irrigation usage, supported by an on-site weather station. In addition, the project would be consistent with the City's Policy TE-1.1, Alternative Modes, by incorporating 52 bicycle parking spaces to the Barnsdall site. Therefore, the project would be consistent with the goals and policies in the City of Goleta General plan to increase water efficiency, and potentially reduce the amount of motor trips with connectivity to surrounding neighboring residents.

City of Goleta CAP

The City's CAP is a long-range plan to reduce GHG emissions from city government operations and community activities within Goleta. In addition, contains policies and programs targeting energy efficiency policy. The CAP ensures that Goleta does its part to contribute to the goals of California's AB 32 and its successor legislation, SB 32. The project building would be designed and equipped with features that conserve and reduce energy consumption. The project would be consistent with the latest Title 24 Building Energy Efficiency Standards for solar readiness for nonresidential land uses, which would align with Policy RE-1. In addition, the project would construct 52 bicycle parking spaces, which could promote alternative modes of transportation with several residential uses within half a mile of the project site. The addition of bicycle parking spaces on the project site is aligned with Policy T-8 of City's Climate Action Plan. The proposed project would be consistent with the goals outlined in the CAP.

As shown, the Project was shown to be consist with the 2022 Scoping Plan, SBCAG 2050 RTP/SCS, City of Goleta General Plan/Coastal Land Use Plan, and City of Goleta CAP . Therefore, the project would have a **less than significant** impact with respect to conflicting with an applicable plan, policy, or regulation adopted for the purpose of reducing the GHG emissions.

5 Conclusions

The project would not conflict with the SBCAPCD 2022 Ozone Plan or existing zoning designations. Emissions generated during construction of the project would not exceed the SBCAPCD's significance thresholds. The project would not generate criteria air pollutants during long-term operations that would exceed the SBCAPCD's significance thresholds. The project would also not result in a cumulatively considerable impact or expose sensitive receptors to substantial pollutant concentrations. The project would also not be a significant source of odors. Therefore, the project would result in a less than significant impact in regards to air quality.

Estimated GHG emissions generated during construction and operation would be below the threshold of 2.63 MT CO₂e per employee per year. The Project was shown to be consist with the 2022 Scoping Plan, SBCAG 2050 RTP/SCS, City of Goleta General Plan/Coastal Land Use Plan, and City of Goleta CAP. Accordingly, potential cumulative GHG impacts would be less than significant.

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sandpiper Golf Course Existing
Operational Year	2024
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.40
Precipitation (days)	23.8
Location	34.42834873426439, -119.90548701177613
County	Santa Barbara
City	Goleta
Air District	Santa Barbara County APCD
Air Basin	South Central Coast
TAZ	3365
EDFZ	8
Electric Utility	Central Coast Community Energy
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Golf Course	174	Acre	174	0.00	0.00	0.00	—	—

Fast Food Restaurant w/o Drive Thru	1.97	1000sqft	0.05	1,971	0.00	0.00	—	—
Racquet Club	9.30	1000sqft	0.21	9,305	0.00	—	—	—
Parking Lot	139	Space	1.25	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	7.55	1000sqft	0.17	7,555	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Water	W-1	Use Reclaimed Non-Potable Water

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.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.68	1.59	0.97	6.96	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,714	2,852	13.4	0.09	8.60	3,221
Mit.	1.68	1.59	0.97	6.96	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,556	2,694	13.4	0.09	8.60	3,062
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	2%	—	5%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.55	1.46	1.04	6.43	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,692	2,830	13.4	0.09	3.27	3,196
Mit.	1.55	1.46	1.04	6.43	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,534	2,672	13.4	0.09	3.27	3,036
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	2%	—	5%

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.61	1.52	1.03	6.64	0.01	0.03	1.03	1.05	0.03	0.26	0.29	138	2,695	2,833	13.4	0.09	5.49	3,200
Mit.	1.61	1.52	1.03	6.64	0.01	0.03	1.03	1.05	0.03	0.26	0.29	138	2,536	2,674	13.4	0.09	5.49	3,041
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	2%	—	5%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.29	0.28	0.19	1.21	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	22.9	446	469	2.22	0.01	0.91	530
Mit.	0.29	0.28	0.19	1.21	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	22.9	420	443	2.21	0.01	0.91	503
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	6%	6%	< 0.5%	2%	—	5%

2.5. Operations Emissions by Sector, Unmitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.91	0.76	5.96	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,233	1,233	0.07	0.06	5.48	1,258
Area	0.68	0.67	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	942	948	0.09	0.02	—	957
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.68	1.59	0.97	6.96	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,714	2,852	13.4	0.09	8.60	3,221
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.99	0.91	0.83	6.26	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,214	1,214	0.08	0.07	0.14	1,236

Area	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	942	948	0.09	0.02	—	957
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.55	1.46	1.04	6.43	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,692	2,830	13.4	0.09	3.27	3,196
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.90	0.82	6.07	0.01	0.01	1.03	1.04	0.01	0.26	0.27	—	1,215	1,215	0.08	0.07	2.37	1,239
Area	0.61	0.61	< 0.005	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.66	1.66	< 0.005	< 0.005	—	1.67
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	942	948	0.09	0.02	—	957
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.61	1.52	1.03	6.64	0.01	0.03	1.03	1.05	0.03	0.26	0.29	138	2,695	2,833	13.4	0.09	5.49	3,200
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.18	0.16	0.15	1.11	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	201	201	0.01	0.01	0.39	205
Area	0.11	0.11	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28
Energy	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.8	88.8	0.01	< 0.005	—	89.2
Water	—	—	—	—	—	—	—	—	—	—	—	1.02	156	157	0.02	< 0.005	—	158
Waste	—	—	—	—	—	—	—	—	—	—	—	21.8	0.00	21.8	2.18	0.00	—	76.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
Total	0.29	0.28	0.19	1.21	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	22.9	446	469	2.22	0.01	0.91	530

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.98	0.91	0.76	5.96	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,233	1,233	0.07	0.06	5.48	1,258
Area	0.68	0.67	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	783	789	0.08	0.02	—	797
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.68	1.59	0.97	6.96	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,556	2,694	13.4	0.09	8.60	3,062
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.99	0.91	0.83	6.26	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,214	1,214	0.08	0.07	0.14	1,236
Area	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	783	789	0.08	0.02	—	797
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.55	1.46	1.04	6.43	0.01	0.03	1.04	1.07	0.03	0.26	0.29	138	2,534	2,672	13.4	0.09	3.27	3,036
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.90	0.82	6.07	0.01	0.01	1.03	1.04	0.01	0.26	0.27	—	1,215	1,215	0.08	0.07	2.37	1,239
Area	0.61	0.61	< 0.005	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.66	1.66	< 0.005	< 0.005	—	1.67
Energy	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	537	537	0.04	< 0.005	—	539
Water	—	—	—	—	—	—	—	—	—	—	—	6.19	783	789	0.08	0.02	—	797
Waste	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Total	1.61	1.52	1.03	6.64	0.01	0.03	1.03	1.05	0.03	0.26	0.29	138	2,536	2,674	13.4	0.09	5.49	3,041
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Mobile	0.18	0.16	0.15	1.11	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	—	201	201	0.01	0.01	0.39	205
Area	0.11	0.11	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28
Energy	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	88.8	88.8	0.01	< 0.005	—	89.2
Water	—	—	—	—	—	—	—	—	—	—	—	1.02	130	131	0.01	< 0.005	—	132
Waste	—	—	—	—	—	—	—	—	—	—	—	21.8	0.00	21.8	2.18	0.00	—	76.4
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52
Total	0.29	0.28	0.19	1.21	< 0.005	< 0.005	0.19	0.19	< 0.005	0.05	0.05	22.9	420	443	2.21	0.01	0.91	503

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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	82.5	82.5	0.01	< 0.005	—	82.9
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	106	106	0.01	< 0.005	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	< 0.005	< 0.005	—	58.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	43.1	43.1	< 0.005	< 0.005	—	43.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.02	< 0.005	—	291
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	82.5	82.5	0.01	< 0.005	—	82.9
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	106	106	0.01	< 0.005	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	< 0.005	< 0.005	—	58.7
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	43.1	43.1	< 0.005	< 0.005	—	43.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.02	< 0.005	—	291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	13.7	13.7	< 0.005	< 0.005	—	13.7
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.67	9.67	< 0.005	< 0.005	—	9.71
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	7.14	7.14	< 0.005	< 0.005	—	7.17
Total	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	< 0.005	< 0.005	—	48.2

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	82.5	82.5	0.01	< 0.005	—	82.9
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	106	106	0.01	< 0.005	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	< 0.005	< 0.005	—	58.7

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	43.1	43.1	< 0.005	< 0.005	—	43.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.02	< 0.005	—	291
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	82.5	82.5	0.01	< 0.005	—	82.9
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	106	106	0.01	< 0.005	—	106
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	58.4	58.4	< 0.005	< 0.005	—	58.7
Unrefrig erated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	43.1	43.1	< 0.005	< 0.005	—	43.3
Total	—	—	—	—	—	—	—	—	—	—	—	—	290	290	0.02	< 0.005	—	291
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	13.7	13.7	< 0.005	< 0.005	—	13.7
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	17.5	17.5	< 0.005	< 0.005	—	17.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	9.67	9.67	< 0.005	< 0.005	—	9.71

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	—	7.14	7.14	< 0.005	< 0.005	—	7.17
Total	—	—	—	—	—	—	—	—	—	—	—	—	48.0	48.0	< 0.005	< 0.005	—	48.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.6	72.6	0.01	< 0.005	—	72.8
Racquet Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.02	< 0.005	—	247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.6	72.6	0.01	< 0.005	—	72.8
Racquet Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.02	< 0.005	—	247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Racquet Club	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.76	7.76	< 0.005	< 0.005	—	7.79
Total	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.8	40.8	< 0.005	< 0.005	—	41.0

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.6	72.6	0.01	< 0.005	—	72.8
Racquet Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.02	< 0.005	—	247
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.6	72.6	0.01	< 0.005	—	72.8
Racquet Club	0.01	0.01	0.11	0.09	< 0.005	0.01	—	0.01	0.01	—	0.01	—	127	127	0.01	< 0.005	—	128
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrig erated	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.02	0.01	0.21	0.17	< 0.005	0.02	—	0.02	0.02	—	0.02	—	247	247	0.02	< 0.005	—	247
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.0	12.0	< 0.005	< 0.005	—	12.1
Racquet Club	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.1	21.1	< 0.005	< 0.005	—	21.1
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.76	7.76	< 0.005	< 0.005	—	7.79
Total	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	40.8	40.8	< 0.005	< 0.005	—	41.0

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consum er Product s	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.13	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Total	0.68	0.67	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.01	0.01	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28
Total	0.11	0.11	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.15	0.13	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Total	0.68	0.67	0.01	0.82	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.37	3.37	< 0.005	< 0.005	—	3.38
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.41	0.41	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.54	0.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.08	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.02	0.02	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipment	0.01	0.01	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28
Total	0.11	0.11	< 0.005	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.27	0.27	< 0.005	< 0.005	—	0.28

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	922	922	0.07	0.01	—	927
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.28	3.96	5.24	< 0.005	< 0.005	—	6.20
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	1.18	3.64	4.82	< 0.005	< 0.005	—	5.70
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	11.6	15.3	0.01	0.01	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.19	942	948	0.09	0.02	—	957
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	922	922	0.07	0.01	—	927

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.28	3.96	5.24	< 0.005	< 0.005	—	6.20
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	1.18	3.64	4.82	< 0.005	< 0.005	—	5.70
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	11.6	15.3	0.01	0.01	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.19	942	948	0.09	0.02	—	957
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	153	153	0.01	< 0.005	—	153
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.21	0.66	0.87	< 0.005	< 0.005	—	1.03
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	0.19	0.60	0.80	< 0.005	< 0.005	—	0.94
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.62	1.91	2.53	< 0.005	< 0.005	—	3.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.02	156	157	0.02	< 0.005	—	158

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	764	764	0.06	0.01	—	767
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.28	3.96	5.24	< 0.005	< 0.005	—	6.20
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	1.18	3.64	4.82	< 0.005	< 0.005	—	5.70
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	11.6	15.3	0.01	0.01	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.19	783	789	0.08	0.02	—	797
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	764	764	0.06	0.01	—	767
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	1.28	3.96	5.24	< 0.005	< 0.005	—	6.20
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	1.18	3.64	4.82	< 0.005	< 0.005	—	5.70
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig erated	—	—	—	—	—	—	—	—	—	—	—	3.73	11.6	15.3	0.01	0.01	—	18.1
Total	—	—	—	—	—	—	—	—	—	—	—	6.19	783	789	0.08	0.02	—	797
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	126	126	0.01	< 0.005	—	127
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.21	0.66	0.87	< 0.005	< 0.005	—	1.03
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	0.19	0.60	0.80	< 0.005	< 0.005	—	0.94
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.62	1.91	2.53	< 0.005	< 0.005	—	3.00
Total	—	—	—	—	—	—	—	—	—	—	—	1.02	130	131	0.01	< 0.005	—	132

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	87.2	0.00	87.2	8.72	0.00	—	305

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.8
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	87.2	0.00	87.2	8.72	0.00	—	305
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.8
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Golf Course	—	—	—	—	—	—	—	—	—	—	—	14.4	0.00	14.4	1.44	0.00	—	50.5
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.03	0.00	2.03	0.20	0.00	—	7.09
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.73	0.00	4.73	0.47	0.00	—	16.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.22
Total	—	—	—	—	—	—	—	—	—	—	—	21.8	0.00	21.8	2.18	0.00	—	76.4

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	87.2	0.00	87.2	8.72	0.00	—	305
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.8
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	87.2	0.00	87.2	8.72	0.00	—	305
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	12.2	0.00	12.2	1.22	0.00	—	42.8
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	28.6	0.00	28.6	2.86	0.00	—	100
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	132	0.00	132	13.2	0.00	—	461
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	14.4	0.00	14.4	1.44	0.00	—	50.5
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	2.03	0.00	2.03	0.20	0.00	—	7.09
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.73	0.00	4.73	0.47	0.00	—	16.6
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrigerated	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.22
Total	—	—	—	—	—	—	—	—	—	—	—	21.8	0.00	21.8	2.18	0.00	—	76.4

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.08	3.08
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.08	3.08
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.51	0.51
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.08	3.08
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.08	3.08
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.04	0.04
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3.13	3.13
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.51	0.51
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.52	0.52

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequest ered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Remove d	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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)

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.9. 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	194	194	194	70,806	1,474	1,474	1,474	538,126

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	194	194	194	70,806	1,474	1,474	1,474	538,126

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	28,682	9,561	3,270

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Golf Course	0.00	447	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	67,441	447	0.0330	0.0040	226,583
Racquet Club	86,526	447	0.0330	0.0040	396,856
Parking Lot	47,736	447	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	35,235	447	0.0330	0.0040	146,321

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)
Golf Course	0.00	447	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	67,441	447	0.0330	0.0040	226,583
Racquet Club	86,526	447	0.0330	0.0040	396,856

Parking Lot	47,736	447	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	35,235	447	0.0330	0.0040	146,321

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Golf Course	0.00	194,898,692
Fast Food Restaurant w/o Drive Thru	598,265	0.00
Racquet Club	550,327	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,747,094	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Golf Course	0.00	194,898,692
Fast Food Restaurant w/o Drive Thru	598,265	0.00
Racquet Club	550,327	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,747,094	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Golf Course	162	—
Fast Food Restaurant w/o Drive Thru	22.7	—

Racquet Club	53.0	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	7.10	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Golf Course	162	—
Fast Food Restaurant w/o Drive Thru	22.7	—
Racquet Club	53.0	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	7.10	—

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
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Racquet Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

Racquet Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
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5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Racquet Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Racquet Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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	10.1	annual days of extreme heat
Extreme Precipitation	6.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	16.8	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	20.8
AQ-PM	11.3
AQ-DPM	55.2
Drinking Water	35.6
Lead Risk Housing	23.5
Pesticides	0.00
Toxic Releases	17.2
Traffic	30.1
Effect Indicators	—
CleanUp Sites	37.6
Groundwater	89.9
Haz Waste Facilities/Generators	88.6
Impaired Water Bodies	51.2
Solid Waste	0.00
Sensitive Population	—
Asthma	25.9

Cardio-vascular	41.2
Low Birth Weights	31.3
Socioeconomic Factor Indicators	—
Education	42.3
Housing	52.6
Linguistic	42.8
Poverty	46.4
Unemployment	25.2

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	56.31977416
Employed	91.91582189
Median HI	62.41498781
Education	—
Bachelor's or higher	76.14525857
High school enrollment	27.3193892
Preschool enrollment	44.69395611
Transportation	—
Auto Access	68.11240857
Active commuting	82.66392917
Social	—
2-parent households	90.61978699
Voting	84.9095342
Neighborhood	—
Alcohol availability	35.64737585

Park access	59.32246888
Retail density	49.32631849
Supermarket access	65.25086616
Tree canopy	56.52508662
Housing	—
Homeownership	32.09290389
Housing habitability	59.43795714
Low-inc homeowner severe housing cost burden	60.95213653
Low-inc renter severe housing cost burden	67.23983062
Uncrowded housing	43.53907353
Health Outcomes	—
Insured adults	79.94353907
Arthritis	0.0
Asthma ER Admissions	68.6
High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	45.6
Cognitively Disabled	76.7
Physically Disabled	84.3
Heart Attack ER Admissions	80.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	40.1

Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	73.6
Children	58.1
Elderly	76.6
English Speaking	53.7
Foreign-born	41.6
Outdoor Workers	66.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	62.7
Traffic Density	30.8
Traffic Access	0.0
Other Indices	—
Hardship	33.1
Other Decision Support	—
2016 Voting	86.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	84.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No

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

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

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Characteristics: Utility Information	Central Coast Community Energy is default provider.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Construction: Paving	Parking lot restriping/paving.
Operations: Solid Waste	N
Operations: Energy Use	No additional electricity use for parking lot, just paving/restriping.
Operations: Water and Waste Water	Based on landscaping plan.

Sandpiper Golf Course Redevelopment Project Detailed Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Sandpiper Golf Course Redevelopment Project
Construction Start Date	7/1/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.40
Precipitation (days)	23.8
Location	34.42834873426439, -119.90548701177613
County	Santa Barbara
City	Goleta
Air District	Santa Barbara County APCD
Air Basin	South Central Coast
TAZ	3365
EDFZ	8
Electric Utility	Central Coast Community Energy
Gas Utility	Southern California Gas
App Version	2022.1.1.29

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
Golf Course	71.0	Acre	71.0	0.00	0.00	0.00	—	—

Fast Food Restaurant w/o Drive Thru	7.43	1000sqft	0.17	7,431	0.00	0.00	—	—
Racquet Club	37.2	1000sqft	0.85	37,179	0.00	—	—	—
Parking Lot	267	1000sqft	6.13	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	7.55	1000sqft	0.17	7,555	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Energy	E-10-B	Establish Onsite Renewable Energy Systems: Solar Power
Water	W-1	Use Reclaimed Non-Potable Water

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.5	29.5	40.4	44.0	0.11	1.45	10.3	11.8	1.34	3.96	5.29	—	12,856	12,856	0.56	0.83	10.0	13,064
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.5	29.5	40.6	44.1	0.11	1.45	19.8	21.0	1.34	10.1	11.3	—	12,853	12,853	0.57	0.83	0.26	13,054
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.75	5.35	16.7	18.4	0.04	0.61	4.45	5.05	0.56	1.79	2.35	—	5,071	5,071	0.22	0.23	1.21	5,147

Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.05	0.98	3.04	3.36	0.01	0.11	0.81	0.92	0.10	0.33	0.43	—	840	840	0.04	0.04	0.20	852

2.2. Construction Emissions by Year, Unmitigated

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

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.18	2.46	27.6	21.9	0.07	0.94	6.39	7.33	0.84	1.14	1.98	—	8,676	8,676	0.42	0.83	10.0	8,945
2027	29.5	29.5	40.4	44.0	0.11	1.45	10.3	11.8	1.34	3.96	5.29	—	12,856	12,856	0.56	0.63	6.81	13,064
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.83	3.22	29.3	29.5	0.07	1.24	19.8	21.0	1.14	10.1	11.3	—	8,676	8,676	0.41	0.83	0.26	8,935
2027	29.5	29.5	40.6	44.1	0.11	1.45	19.8	21.0	1.34	10.1	11.2	—	12,853	12,853	0.57	0.63	0.18	13,054
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.20	0.95	10.2	8.53	0.02	0.36	3.45	3.81	0.33	1.18	1.51	—	2,848	2,848	0.13	0.23	1.21	2,922
2027	5.75	5.35	16.7	18.4	0.04	0.61	4.45	5.05	0.56	1.79	2.35	—	5,071	5,071	0.22	0.23	1.11	5,147
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.22	0.17	1.85	1.56	< 0.005	0.07	0.63	0.70	0.06	0.22	0.28	—	472	472	0.02	0.04	0.20	484
2027	1.05	0.98	3.04	3.36	0.01	0.11	0.81	0.92	0.10	0.33	0.43	—	840	840	0.04	0.04	0.18	852

2.3. Construction Emissions by Year, Mitigated

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

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

2026	3.18	2.46	27.6	21.9	0.07	0.94	6.39	7.33	0.84	1.14	1.98	—	8,676	8,676	0.42	0.83	10.0	8,945
2027	29.5	29.5	40.4	44.0	0.11	1.45	10.3	11.8	1.34	3.96	5.29	—	12,856	12,856	0.56	0.63	6.81	13,064
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	3.83	3.22	29.3	29.5	0.07	1.24	19.8	21.0	1.14	10.1	11.3	—	8,676	8,676	0.41	0.83	0.26	8,935
2027	29.5	29.5	40.6	44.1	0.11	1.45	19.8	21.0	1.34	10.1	11.2	—	12,853	12,853	0.57	0.63	0.18	13,054
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	1.20	0.95	10.2	8.53	0.02	0.36	3.45	3.81	0.33	1.18	1.51	—	2,848	2,848	0.13	0.23	1.21	2,922
2027	5.75	5.35	16.7	18.4	0.04	0.61	4.45	5.05	0.56	1.79	2.35	—	5,071	5,071	0.22	0.23	1.11	5,147
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.22	0.17	1.85	1.56	< 0.005	0.07	0.63	0.70	0.06	0.22	0.28	—	472	472	0.02	0.04	0.20	484
2027	1.05	0.98	3.04	3.36	0.01	0.11	0.81	0.92	0.10	0.33	0.43	—	840	840	0.04	0.04	0.18	852

2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.73	2.61	1.25	7.30	0.01	0.06	0.93	0.99	0.06	0.24	0.30	213	2,608	2,821	20.3	0.09	15.6	3,371
Mit.	2.73	2.61	1.25	7.30	0.01	0.06	0.93	0.99	0.06	0.24	0.30	213	2,467	2,680	20.2	0.09	15.6	3,229
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	< 0.5%	3%	—	4%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.34	2.24	1.28	5.25	0.01	0.05	0.93	0.99	0.06	0.24	0.29	213	2,583	2,796	20.3	0.10	11.9	3,344
Mit.	2.34	2.24	1.28	5.25	0.01	0.05	0.93	0.99	0.06	0.24	0.29	213	2,442	2,655	20.2	0.09	11.9	3,201

% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	< 0.5%	2%	—	4%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.53	2.42	1.28	6.23	0.01	0.05	0.92	0.97	0.06	0.23	0.29	213	2,588	2,802	20.3	0.10	13.4	3,350
Mit.	2.53	2.42	1.28	6.23	0.01	0.05	0.92	0.97	0.06	0.23	0.29	213	2,448	2,661	20.2	0.09	13.4	3,208
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	< 0.5%	2%	—	4%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.46	0.44	0.23	1.14	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	35.3	429	464	3.35	0.02	2.22	555
Mit.	0.46	0.44	0.23	1.14	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	35.3	405	440	3.35	0.02	2.22	531
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	5%	5%	< 0.5%	2%	—	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	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.76	0.70	0.54	4.45	0.01	0.01	0.94	0.95	0.01	0.24	0.25	—	1,042	1,042	0.06	0.05	3.78	1,062
Area	1.90	1.87	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.15	0.01	—	1,392
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	262	276	0.08	0.03	—	288
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetation	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.73	2.61	1.25	7.30	0.01	0.06	0.93	0.99	0.06	0.24	0.30	213	2,608	2,821	20.3	0.09	15.6	3,371

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.76	0.71	0.59	4.67	0.01	0.01	0.94	0.95	0.01	0.24	0.25	—	1,027	1,027	0.06	0.05	0.10	1,044
Area	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.15	0.01	—	1,392
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	262	276	0.08	0.03	—	288
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetati on	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.34	2.24	1.28	5.25	0.01	0.05	0.93	0.99	0.06	0.24	0.29	213	2,583	2,796	20.3	0.10	11.9	3,344
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.75	0.70	0.58	4.53	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	1,027	1,027	0.06	0.05	1.63	1,046
Area	1.70	1.68	0.01	1.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.60	4.60	< 0.005	< 0.005	—	4.62
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,384	1,384	0.15	0.01	—	1,392
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	262	276	0.08	0.03	—	288
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetati on	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.53	2.42	1.28	6.23	0.01	0.05	0.92	0.97	0.06	0.23	0.29	213	2,588	2,802	20.3	0.10	13.4	3,350
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.13	0.11	0.83	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	170	170	0.01	0.01	0.27	173
Area	0.31	0.31	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	229	229	0.03	< 0.005	—	230
Water	—	—	—	—	—	—	—	—	—	—	—	2.19	43.4	45.6	0.01	0.01	—	47.6
Waste	—	—	—	—	—	—	—	—	—	—	—	33.1	0.00	33.1	3.31	0.00	—	116
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95

Vegetati	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-15.0	-15.0	—	—	—	-15.0
Total	0.46	0.44	0.23	1.14	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	35.3	429	464	3.35	0.02	2.22	555

2.6. Operations Emissions by Sector, Mitigated

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

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.76	0.70	0.54	4.45	0.01	0.01	0.94	0.95	0.01	0.24	0.25	—	1,042	1,042	0.06	0.05	3.78	1,062
Area	1.90	1.87	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,285	1,285	0.14	0.01	—	1,291
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	221	234	0.08	0.03	—	246
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetati on	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.73	2.61	1.25	7.30	0.01	0.06	0.93	0.99	0.06	0.24	0.30	213	2,467	2,680	20.2	0.09	15.6	3,229
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.76	0.71	0.59	4.67	0.01	0.01	0.94	0.95	0.01	0.24	0.25	—	1,027	1,027	0.06	0.05	0.10	1,044
Area	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,285	1,285	0.14	0.01	—	1,291
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	221	234	0.08	0.03	—	246
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetati on	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.34	2.24	1.28	5.25	0.01	0.05	0.93	0.99	0.06	0.24	0.29	213	2,442	2,655	20.2	0.09	11.9	3,201

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.75	0.70	0.58	4.53	0.01	0.01	0.93	0.94	0.01	0.24	0.24	—	1,027	1,027	0.06	0.05	1.63	1,046
Area	1.70	1.68	0.01	1.12	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.60	4.60	< 0.005	< 0.005	—	4.62
Energy	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	1,285	1,285	0.14	0.01	—	1,291
Water	—	—	—	—	—	—	—	—	—	—	—	13.3	221	234	0.08	0.03	—	246
Waste	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Vegetation	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Total	2.53	2.42	1.28	6.23	0.01	0.05	0.92	0.97	0.06	0.23	0.29	213	2,448	2,661	20.2	0.09	13.4	3,208
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.14	0.13	0.11	0.83	< 0.005	< 0.005	0.17	0.17	< 0.005	0.04	0.04	—	170	170	0.01	0.01	0.27	173
Area	0.31	0.31	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76
Energy	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	213	213	0.02	< 0.005	—	214
Water	—	—	—	—	—	—	—	—	—	—	—	2.19	36.6	38.8	0.01	0.01	—	40.7
Waste	—	—	—	—	—	—	—	—	—	—	—	33.1	0.00	33.1	3.31	0.00	—	116
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95
Vegetation	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-15.0	-15.0	—	—	—	-15.0
Total	0.46	0.44	0.23	1.14	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	35.3	405	440	3.35	0.02	2.22	531

3. Construction Emissions Details

3.1. Demolition (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	4.99	4.99	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	4.99	4.99	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.66	5.21	0.01	0.23	—	0.23	0.21	—	0.21	—	939	939	0.04	0.01	—	942
Demolition	—	—	—	—	—	—	1.37	1.37	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.03	0.95	< 0.005	0.04	—	0.04	0.04	—	0.04	—	155	155	0.01	< 0.005	—	156

Demoliti	—	—	—	—	—	—	0.25	0.25	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.55	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	98.6	98.6	0.01	< 0.005	0.41	100
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.7	69.7	< 0.005	0.01	0.17	72.9
Hauling	0.37	0.10	6.82	2.28	0.03	0.09	1.28	1.37	0.06	0.36	0.42	—	5,081	5,081	0.27	0.79	9.42	5,333
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.57	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.6	96.6	< 0.005	< 0.005	0.01	98.0
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.8	69.8	< 0.005	0.01	< 0.005	72.8
Hauling	0.37	0.10	7.01	2.30	0.03	0.09	1.28	1.37	0.06	0.36	0.42	—	5,083	5,083	0.27	0.79	0.24	5,326
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.05	26.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.02	20.0
Hauling	0.10	0.03	1.93	0.63	0.01	0.03	0.35	0.37	0.02	0.10	0.11	—	1,392	1,392	0.07	0.22	1.12	1,460
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	0.01	4.46
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.16	3.16	< 0.005	< 0.005	< 0.005	3.31
Hauling	0.02	< 0.005	0.35	0.11	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	231	231	0.01	0.04	0.18	242

3.2. Demolition (2026) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	4.99	4.99	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.72	2.29	20.7	19.0	0.03	0.84	—	0.84	0.78	—	0.78	—	3,427	3,427	0.14	0.03	—	3,438
Demolition	—	—	—	—	—	—	4.99	4.99	—	0.76	0.76	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.75	0.63	5.66	5.21	0.01	0.23	—	0.23	0.21	—	0.21	—	939	939	0.04	0.01	—	942
Demolition	—	—	—	—	—	—	1.37	1.37	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.14	0.11	1.03	0.95	< 0.005	0.04	—	0.04	0.04	—	0.04	—	155	155	0.01	< 0.005	—	156

Demoliti	—	—	—	—	—	—	0.25	0.25	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.55	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	98.6	98.6	0.01	< 0.005	0.41	100
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.7	69.7	< 0.005	0.01	0.17	72.9
Hauling	0.37	0.10	6.82	2.28	0.03	0.09	1.28	1.37	0.06	0.36	0.42	—	5,081	5,081	0.27	0.79	9.42	5,333
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.07	0.05	0.57	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	96.6	96.6	< 0.005	< 0.005	0.01	98.0
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.8	69.8	< 0.005	0.01	< 0.005	72.8
Hauling	0.37	0.10	7.01	2.30	0.03	0.09	1.28	1.37	0.06	0.36	0.42	—	5,083	5,083	0.27	0.79	0.24	5,326
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.15	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.5	26.5	< 0.005	< 0.005	0.05	26.9
Vendor	< 0.005	< 0.005	0.03	0.01	< 0.005	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	—	19.1	19.1	< 0.005	< 0.005	0.02	20.0
Hauling	0.10	0.03	1.93	0.63	0.01	0.03	0.35	0.37	0.02	0.10	0.11	—	1,392	1,392	0.07	0.22	1.12	1,460
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.38	4.38	< 0.005	< 0.005	0.01	4.46
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.16	3.16	< 0.005	< 0.005	< 0.005	3.31
Hauling	0.02	< 0.005	0.35	0.11	< 0.005	< 0.005	0.06	0.07	< 0.005	0.02	0.02	—	231	231	0.01	0.04	0.18	242

3.3. Site Preparation (2026) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.32	0.27	2.51	2.48	< 0.005	0.11	—	0.11	0.10	—	0.10	—	456	456	0.02	< 0.005	—	458
Dust From Material Movement	—	—	—	—	—	—	1.69	1.69	—	0.87	0.87	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.06	0.05	0.46	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.5	75.5	< 0.005	< 0.005	—	75.8
Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.16	0.16	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.64	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	109	109	< 0.005	0.01	0.01	110
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.8	69.8	< 0.005	0.01	< 0.005	72.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.36	9.36	< 0.005	< 0.005	0.02	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.01	6.01	< 0.005	< 0.005	0.01	6.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2026) - Mitigated

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

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

Off-Road Equipment	3.74	3.14	29.2	28.8	0.05	1.24	—	1.24	1.14	—	1.14	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	0.27	2.51	2.48	< 0.005	0.11	—	0.11	0.10	—	0.10	—	456	456	0.02	< 0.005	—	458
Dust From Material Movement	—	—	—	—	—	—	1.69	1.69	—	0.87	0.87	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.46	0.45	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.5	75.5	< 0.005	< 0.005	—	75.8
Dust From Material Movement	—	—	—	—	—	—	0.31	0.31	—	0.16	0.16	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.06	0.64	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	109	109	< 0.005	0.01	0.01	110
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	69.8	69.8	< 0.005	0.01	< 0.005	72.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.36	9.36	< 0.005	< 0.005	0.02	9.53
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.01	6.01	< 0.005	< 0.005	0.01	6.27
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.55	1.55	< 0.005	< 0.005	< 0.005	1.58
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.99	0.99	< 0.005	< 0.005	< 0.005	1.04
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Site Preparation (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63	3.05	28.0	28.3	0.05	1.17	—	1.17	1.08	—	1.08	—	5,298	5,298	0.21	0.04	—	5,316

Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.13	0.11	0.99	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	187	187	0.01	< 0.005	—	187
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	0.36	0.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.18	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.59	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	107	107	< 0.005	0.01	0.01	108

Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	0.01	3.82
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.52
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Site Preparation (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.63	3.05	28.0	28.3	0.05	1.17	—	1.17	1.08	—	1.08	—	5,298	5,298	0.21	0.04	—	5,316
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.13	0.11	0.99	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	187	187	0.01	< 0.005	—	187
Dust From Material Movement	—	—	—	—	—	—	0.69	0.69	—	0.36	0.36	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.02	0.02	0.18	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.9	30.9	< 0.005	< 0.005	—	31.0
Dust From Material Movement	—	—	—	—	—	—	0.13	0.13	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.05	0.59	0.00	0.00	0.11	0.11	0.00	0.03	0.03	—	107	107	< 0.005	0.01	0.01	108
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.76	3.76	< 0.005	< 0.005	0.01	3.82

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.41	2.41	< 0.005	< 0.005	< 0.005	2.52
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.62	0.62	< 0.005	< 0.005	< 0.005	0.63
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.40	0.40	< 0.005	< 0.005	< 0.005	0.42
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Grading (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.25	9.25	—	3.66	3.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	—	9.25	9.25	—	3.66	3.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.27	1.07	9.25	9.87	0.02	0.38	—	0.38	0.35	—	0.35	—	2,386	2,386	0.10	0.02	—	2,394
Dust From Material Movement	—	—	—	—	—	—	3.34	3.34	—	1.32	1.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.19	1.69	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	—	395	395	0.02	< 0.005	—	396
Dust From Material Movement	—	—	—	—	—	—	0.61	0.61	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.64	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	0.47	123
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	0.15	71.5
Hauling	0.25	0.07	4.34	1.49	0.02	0.04	0.83	0.87	0.04	0.23	0.27	—	3,252	3,252	0.18	0.52	5.63	3,416

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.66	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	0.01	0.01	120
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.24	0.07	4.47	1.51	0.02	0.04	0.83	0.87	0.04	0.23	0.27	—	3,253	3,253	0.18	0.52	0.15	3,412
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.23	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.9	42.9	< 0.005	< 0.005	0.07	43.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.7	24.7	< 0.005	< 0.005	0.02	25.8
Hauling	0.09	0.02	1.63	0.54	0.01	0.01	0.30	0.31	0.01	0.08	0.10	—	1,176	1,176	0.06	0.19	0.88	1,234
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.10	7.10	< 0.005	< 0.005	0.01	7.22
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.09	4.09	< 0.005	< 0.005	< 0.005	4.28
Hauling	0.02	< 0.005	0.30	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	195	195	0.01	0.03	0.15	204

3.8. Grading (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.25	9.25	—	3.66	3.66	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	3.51	2.95	25.6	27.3	0.06	1.04	—	1.04	0.96	—	0.96	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	9.25	9.25	—	3.66	3.66	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	1.27	1.07	9.25	9.87	0.02	0.38	—	0.38	0.35	—	0.35	—	2,386	2,386	0.10	0.02	—	2,394
Dust From Material Movement	—	—	—	—	—	—	3.34	3.34	—	1.32	1.32	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.23	0.19	1.69	1.80	< 0.005	0.07	—	0.07	0.06	—	0.06	—	395	395	0.02	< 0.005	—	396
Dust From Material Movement	—	—	—	—	—	—	0.61	0.61	—	0.24	0.24	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.05	0.64	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	121	121	< 0.005	0.01	0.47	123
Vendor	0.01	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	0.15	71.5
Hauling	0.25	0.07	4.34	1.49	0.02	0.04	0.83	0.87	0.04	0.23	0.27	—	3,252	3,252	0.18	0.52	5.63	3,416
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.06	0.66	0.00	0.00	0.12	0.12	0.00	0.03	0.03	—	118	118	< 0.005	0.01	0.01	120
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.24	0.07	4.47	1.51	0.02	0.04	0.83	0.87	0.04	0.23	0.27	—	3,253	3,253	0.18	0.52	0.15	3,412
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.02	0.23	0.00	0.00	0.04	0.04	0.00	0.01	0.01	—	42.9	42.9	< 0.005	< 0.005	0.07	43.6
Vendor	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	24.7	24.7	< 0.005	< 0.005	0.02	25.8
Hauling	0.09	0.02	1.63	0.54	0.01	0.01	0.30	0.31	0.01	0.08	0.10	—	1,176	1,176	0.06	0.19	0.88	1,234
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.10	7.10	< 0.005	< 0.005	0.01	7.22
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.09	4.09	< 0.005	< 0.005	< 0.005	4.28
Hauling	0.02	< 0.005	0.30	0.10	< 0.005	< 0.005	0.05	0.06	< 0.005	0.02	0.02	—	195	195	0.01	0.03	0.15	204

3.9. Building Construction (2027) - Unmitigated

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

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

Off-Road	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	3.68	5.08	0.01	0.13	—	0.13	0.12	—	0.12	—	951	951	0.04	0.01	—	954
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.67	0.93	< 0.005	0.02	—	0.02	0.02	—	0.02	—	157	157	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	84.7	84.7	< 0.005	< 0.005	0.33	86.2
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.23	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	82.9	82.9	< 0.005	< 0.005	0.01	84.2
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	< 0.005	0.01	0.01	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.0	30.0	< 0.005	< 0.005	0.05	30.5
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.1	37.1	< 0.005	0.01	0.04	38.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	0.01	5.05
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.13	6.13	< 0.005	< 0.005	0.01	6.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	1.33	1.11	10.2	14.0	0.03	0.36	—	0.36	0.34	—	0.34	—	2,630	2,630	0.11	0.02	—	2,639
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.48	0.40	3.68	5.08	0.01	0.13	—	0.13	0.12	—	0.12	—	951	951	0.04	0.01	—	954
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.09	0.07	0.67	0.93	< 0.005	0.02	—	0.02	0.02	—	0.02	—	157	157	0.01	< 0.005	—	158
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.45	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	84.7	84.7	< 0.005	< 0.005	0.33	86.2
Vendor	0.01	< 0.005	0.15	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	102	102	< 0.005	0.01	0.23	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.06	0.04	0.46	0.00	0.00	0.09	0.09	0.00	0.02	0.02	—	82.9	82.9	< 0.005	< 0.005	0.01	84.2
Vendor	0.01	< 0.005	0.16	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	103	103	< 0.005	0.01	0.01	107
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.02	0.02	0.01	0.16	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	30.0	30.0	< 0.005	< 0.005	0.05	30.5
Vendor	< 0.005	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.1	37.1	< 0.005	0.01	0.04	38.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.97	4.97	< 0.005	< 0.005	0.01	5.05
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.13	6.13	< 0.005	< 0.005	0.01	6.41
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.84	1.20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	182	182	0.01	< 0.005	—	183
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.2	30.2	< 0.005	< 0.005	—	30.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.8	94.8	< 0.005	< 0.005	0.01	96.2
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.89	1.89	< 0.005	< 0.005	< 0.005	1.93
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.88	0.74	6.94	9.95	0.01	0.30	—	0.30	0.27	—	0.27	—	1,511	1,511	0.06	0.01	—	1,516
Paving	0.37	0.37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.11	0.09	0.84	1.20	< 0.005	0.04	—	0.04	0.03	—	0.03	—	182	182	0.01	< 0.005	—	183
Paving	0.04	0.04	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.15	0.22	< 0.005	0.01	—	0.01	0.01	—	0.01	—	30.2	30.2	< 0.005	< 0.005	—	30.3
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.05	0.53	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.8	94.8	< 0.005	< 0.005	0.01	96.2
Vendor	0.01	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	68.3	68.3	< 0.005	0.01	< 0.005	71.4
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.4	11.4	< 0.005	< 0.005	0.02	11.6
Vendor	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	8.23	8.23	< 0.005	< 0.005	0.01	8.61
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.89	1.89	< 0.005	< 0.005	< 0.005	1.93
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.36	1.36	< 0.005	< 0.005	< 0.005	1.43
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179

Architectural Coating	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5
Architectural Coatings	3.54	3.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57

Architectural Coatings	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.2	24.2	< 0.005	< 0.005	0.09	24.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.1	34.1	< 0.005	< 0.005	0.08	35.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.1
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.2	34.2	< 0.005	< 0.005	< 0.005	35.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.86	2.86	< 0.005	< 0.005	< 0.005	2.91
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	< 0.005	4.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2027) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.18	0.15	1.11	1.50	< 0.005	0.03	—	0.03	0.02	—	0.02	—	178	178	0.01	< 0.005	—	179
Architectural Coatings	29.3	29.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	21.5	21.5	< 0.005	< 0.005	—	21.5
Architectural Coatings	3.54	3.54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.55	3.55	< 0.005	< 0.005	—	3.57
Architectural Coatings	0.65	0.65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	24.2	24.2	< 0.005	< 0.005	0.09	24.6
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.1	34.1	< 0.005	< 0.005	0.08	35.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.01	0.13	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	23.7	23.7	< 0.005	< 0.005	< 0.005	24.1
Vendor	< 0.005	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	34.2	34.2	< 0.005	< 0.005	< 0.005	35.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.86	2.86	< 0.005	< 0.005	< 0.005	2.91
Vendor	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.12	4.12	< 0.005	< 0.005	< 0.005	4.30
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.47	0.47	< 0.005	< 0.005	< 0.005	0.48

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.68	0.68	< 0.005	< 0.005	< 0.005	0.71
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

4.1.2. Mitigated

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

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	163	163	0.02	< 0.005	—	164
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.03	< 0.005	—	223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	151

Unrefrig erated	—	—	—	—	—	—	—	—	—	—	—	—	22.5	22.5	< 0.005	< 0.005	—	22.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	556	556	0.08	0.01	—	560
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	163	163	0.02	< 0.005	—	164
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.03	< 0.005	—	223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	151
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	22.5	22.5	< 0.005	< 0.005	—	22.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	556	556	0.08	0.01	—	560
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	26.9	26.9	< 0.005	< 0.005	—	27.1
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	36.6	36.6	0.01	< 0.005	—	36.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.8	24.8	< 0.005	< 0.005	—	25.0

Unrefrig erated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73	< 0.005	< 0.005	—	3.76
Total	—	—	—	—	—	—	—	—	—	—	—	—	92.0	92.0	0.01	< 0.005	—	92.8

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.5
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.03	< 0.005	—	223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	151
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	22.5	22.5	< 0.005	< 0.005	—	22.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	456	456	0.06	0.01	—	460
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	63.0	63.0	0.01	< 0.005	—	63.5
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.03	< 0.005	—	223
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	150	150	0.02	< 0.005	—	151
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	22.5	22.5	< 0.005	< 0.005	—	22.7
Total	—	—	—	—	—	—	—	—	—	—	—	—	456	456	0.06	0.01	—	460
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	10.4	10.4	< 0.005	< 0.005	—	10.5
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	36.6	36.6	0.01	< 0.005	—	36.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	24.8	24.8	< 0.005	< 0.005	—	25.0
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	3.73	3.73	< 0.005	< 0.005	—	3.76
Total	—	—	—	—	—	—	—	—	—	—	—	—	75.5	75.5	0.01	< 0.005	—	76.2

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	274	274	0.02	< 0.005	—	275
Racquet Club	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.04	< 0.005	—	510
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	829	829	0.07	< 0.005	—	831
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	274	274	0.02	< 0.005	—	275
Racquet Club	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.04	< 0.005	—	510
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Unrefrig erated	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	829	829	0.07	< 0.005	—	831
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.3	45.3	< 0.005	< 0.005	—	45.5
Racquet Club	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.1	84.1	0.01	< 0.005	—	84.4
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.76	7.76	< 0.005	< 0.005	—	7.79
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	138

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	274	274	0.02	< 0.005	—	275

Racquet Club	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.04	< 0.005	—	510
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	829	829	0.07	< 0.005	—	831
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Fast Food Restaurant w/o Drive Thru	0.03	0.01	0.23	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	274	274	0.02	< 0.005	—	275
Racquet Club	0.05	0.02	0.43	0.36	< 0.005	0.03	—	0.03	0.03	—	0.03	—	508	508	0.04	< 0.005	—	510
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	< 0.005	< 0.005	0.04	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	46.9	46.9	< 0.005	< 0.005	—	47.0
Total	0.08	0.04	0.69	0.58	< 0.005	0.05	—	0.05	0.05	—	0.05	—	829	829	0.07	< 0.005	—	831
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Fast Food Restaurant w/o Drive Thru	< 0.005	< 0.005	0.04	0.04	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	45.3	45.3	< 0.005	< 0.005	—	45.5
Racquet Club	0.01	< 0.005	0.08	0.07	< 0.005	0.01	—	0.01	0.01	—	0.01	—	84.1	84.1	0.01	< 0.005	—	84.4
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	7.76	7.76	< 0.005	< 0.005	—	7.79
Total	0.01	0.01	0.13	0.11	< 0.005	0.01	—	0.01	0.01	—	0.01	—	137	137	0.01	< 0.005	—	138

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	1.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.40	0.37	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36

Total	1.90	1.87	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	1.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76
Total	0.31	0.31	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76

4.3.2. Mitigated

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

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

Consumer Product	1.14	1.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.40	0.37	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36
Total	1.90	1.87	0.02	2.27	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	9.33	9.33	< 0.005	< 0.005	—	9.36
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	1.14	1.14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.35	0.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	1.50	1.50	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	0.21	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.06	0.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.04	0.03	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76
Total	0.31	0.31	< 0.005	0.20	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.76	0.76	< 0.005	< 0.005	—	0.76

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	241	241	0.03	< 0.005	—	243
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.82	7.80	12.6	0.02	0.01	—	16.2
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.70	7.60	12.3	0.02	0.01	—	15.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	6.04	9.77	0.01	0.01	—	12.6
Total	—	—	—	—	—	—	—	—	—	—	—	13.3	262	276	0.08	0.03	—	288
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	241	241	0.03	< 0.005	—	243
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.82	7.80	12.6	0.02	0.01	—	16.2

Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.70	7.60	12.3	0.02	0.01	—	15.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	6.04	9.77	0.01	0.01	—	12.6
Total	—	—	—	—	—	—	—	—	—	—	—	13.3	262	276	0.08	0.03	—	288
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	39.9	39.9	0.01	< 0.005	—	40.2
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.80	1.29	2.09	< 0.005	< 0.005	—	2.69
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	0.78	1.26	2.04	< 0.005	< 0.005	—	2.62
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.62	1.00	1.62	< 0.005	< 0.005	—	2.08
Total	—	—	—	—	—	—	—	—	—	—	—	2.19	43.4	45.6	0.01	0.01	—	47.6

4.4.2. Mitigated

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

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

Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	200	200	0.03	< 0.005	—	201
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.82	7.80	12.6	0.02	0.01	—	16.2
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.70	7.60	12.3	0.02	0.01	—	15.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	6.04	9.77	0.01	0.01	—	12.6
Total	—	—	—	—	—	—	—	—	—	—	—	13.3	221	234	0.08	0.03	—	246
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	200	200	0.03	< 0.005	—	201
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	4.82	7.80	12.6	0.02	0.01	—	16.2
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	4.70	7.60	12.3	0.02	0.01	—	15.8
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.73	6.04	9.77	0.01	0.01	—	12.6
Total	—	—	—	—	—	—	—	—	—	—	—	13.3	221	234	0.08	0.03	—	246

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	0.00	33.0	33.0	< 0.005	< 0.005	—	33.3
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.80	1.29	2.09	< 0.005	< 0.005	—	2.69
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	0.78	1.26	2.04	< 0.005	< 0.005	—	2.62
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.62	1.00	1.62	< 0.005	< 0.005	—	2.08
Total	—	—	—	—	—	—	—	—	—	—	—	2.19	36.6	38.8	0.01	0.01	—	40.7

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161

Racquet Club	—	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	400
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	400
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.89	0.00	5.89	0.59	0.00	—	20.6

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.64	0.00	7.64	0.76	0.00	—	26.7
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	—	66.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.22
Total	—	—	—	—	—	—	—	—	—	—	—	33.1	0.00	33.1	3.31	0.00	—	116

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	400
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig erated Wareho Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	35.6	0.00	35.6	3.56	0.00	—	125
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	46.1	0.00	46.1	4.61	0.00	—	161
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	114	0.00	114	11.4	0.00	—	400
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrig erated Wareho use-No Rail	—	—	—	—	—	—	—	—	—	—	—	3.83	0.00	3.83	0.38	0.00	—	13.4
Total	—	—	—	—	—	—	—	—	—	—	—	200	0.00	200	20.0	0.00	—	699
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	5.89	0.00	5.89	0.59	0.00	—	20.6
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	7.64	0.00	7.64	0.76	0.00	—	26.7
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	18.9	0.00	18.9	1.89	0.00	—	66.2
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrig Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	0.63	0.00	0.63	0.06	0.00	—	2.22
Total	—	—	—	—	—	—	—	—	—	—	—	33.1	0.00	33.1	3.31	0.00	—	116

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6

Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.92	1.92
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.6	11.6
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.18	0.18
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	11.8	11.8
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Golf Course	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.92	1.92
Racquet Club	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.03	0.03
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.95	1.95

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

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

4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.79	-1.79	—	—	—	-1.79
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.55	2.55	—	—	—	2.55
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	—	—	—	1.30
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.71	0.71	—	—	—	0.71
Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	—	—	—	0.45
Melaleuca	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	—	—	—	0.13
New Zealand Christmas Tree	—	-0.01	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-12.6	-12.6	—	—	—	-12.6
Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.30	-1.30	—	—	—	-1.30
Subtotal	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-10.6	-10.6	—	—	—	-10.6
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	—	—	—	—	—	—	—	—	—	—	-6.33	-6.33	—	—	—	-6.33
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	8.68	8.68	—	—	—	8.68
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97	—	—	—	6.97
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	2.07	2.07	—	—	—	2.07
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.38	—	—	—	0.38

New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-92.7	-92.7	—	—	—	-92.7
Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-2.15	-2.15	—	—	—	-2.15
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-79.8	-79.8	—	—	—	-79.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Melaleuca	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Monterey	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.79	-1.79	—	—	—	-1.79
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.55	2.55	—	—	—	2.55
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	—	—	—	1.30
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.71	0.71	—	—	—	0.71
Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	—	—	—	0.45
Melaleuca	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	—	—	—	0.13
New Zealand Christmas Tree	—	-0.01	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-12.6	-12.6	—	—	—	-12.6
Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.30	-1.30	—	—	—	-1.30
Subtotal	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-10.6	-10.6	—	—	—	-10.6
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	—	—	—	—	—	—	—	—	—	—	-6.33	-6.33	—	—	—	-6.33
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	8.68	8.68	—	—	—	8.68
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97	—	—	—	6.97
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	2.07	2.07	—	—	—	2.07
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.38	—	—	—	0.38
New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-92.7	-92.7	—	—	—	-92.7

Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-2.15	-2.15	—	—	—	-2.15
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-79.8	-79.8	—	—	—	-79.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Melaleuca	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.30	-0.30	—	—	—	-0.30
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	—	—	—	0.42
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	—	—	—	0.22
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	—	—	—	0.12

Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	—	—	—	0.07
Melaleuca	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	—	—	—	0.02
New Zealand Christmas Tree	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-2.09	-2.09	—	—	—	-2.09
Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.22	-0.22	—	—	—	-0.22
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.75	-1.75	—	—	—	-1.75
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	—	—	—	—	—	—	—	—	—	—	-1.05	-1.05	—	—	—	-1.05
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	1.44	1.44	—	—	—	1.44
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	1.15	1.15	—	—	—	1.15
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54	—	—	—	0.54
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34	—	—	—	0.34
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06	—	—	—	0.06
New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-15.4	-15.4	—	—	—	-15.4
Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-0.36	-0.36	—	—	—	-0.36
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-13.2	-13.2	—	—	—	-13.2
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Monterey	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Melaleuca	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-15.0	-15.0	—	—	—	-15.0

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
-------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.79	-1.79	—	—	—	-1.79
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.55	2.55	—	—	—	2.55
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	—	—	—	1.30
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.71	0.71	—	—	—	0.71
Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	—	—	—	0.45

Melaleu	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	—	—	—	0.13
New Zealand Christmas Tree	—	-0.01	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-12.6	-12.6	—	—	—	-12.6
Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.30	-1.30	—	—	—	-1.30
Subtotal	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-10.6	-10.6	—	—	—	-10.6
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	—	—	—	—	—	—	—	—	—	—	-6.33	-6.33	—	—	—	-6.33
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	8.68	8.68	—	—	—	8.68
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97	—	—	—	6.97
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	2.07	2.07	—	—	—	2.07
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.38	—	—	—	0.38
New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-92.7	-92.7	—	—	—	-92.7
Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-2.15	-2.15	—	—	—	-2.15
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-79.8	-79.8	—	—	—	-79.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—

Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Melaleuca	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.79	-1.79	—	—	—	-1.79
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.55	2.55	—	—	—	2.55
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.30	1.30	—	—	—	1.30
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.71	0.71	—	—	—	0.71
Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.45	0.45	—	—	—	0.45
Melaleuca	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.13	0.13	—	—	—	0.13
New Zealand Christmas Tree	—	-0.01	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-12.6	-12.6	—	—	—	-12.6

Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.30	-1.30	—	—	—	-1.30
Subtotal	—	> -0.005	> -0.005	—	> -0.005	-0.01	-0.01	-0.01	> -0.005	> -0.005	> -0.005	—	-10.6	-10.6	—	—	—	-10.6
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	—	—	—	—	—	—	—	—	—	—	-6.33	-6.33	—	—	—	-6.33
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	8.68	8.68	—	—	—	8.68
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	6.97	6.97	—	—	—	6.97
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	3.29	3.29	—	—	—	3.29
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	2.07	2.07	—	—	—	2.07
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.38	0.38	—	—	—	0.38
New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-92.7	-92.7	—	—	—	-92.7
Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-2.15	-2.15	—	—	—	-2.15
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-79.8	-79.8	—	—	—	-79.8
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—

Melaleu	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	-0.01	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	-0.01	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	-0.01	—	> -0.005	-0.01	-0.01	-0.02	> -0.005	> -0.005	> -0.005	—	-90.4	-90.4	—	—	—	-90.4
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.30	-0.30	—	—	—	-0.30
Ironbark	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.42	0.42	—	—	—	0.42
Corybia	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	—	—	—	0.22
Red Box	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.12	0.12	—	—	—	0.12
Shamel Ash	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	—	—	—	0.07
Melaleuca	—	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	—	—	—	0.02
New Zealand Christmas Tree	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-2.09	-2.09	—	—	—	-2.09
Coastal Live Oak	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-0.22	-0.22	—	—	—	-0.22
Subtotal	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-1.75	-1.75	—	—	—	-1.75
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Monterey	—	—	—	—	—	—	—	—	—	—	—	—	-1.05	-1.05	—	—	—	-1.05
Ironbark	—	—	—	—	—	—	—	—	—	—	—	—	1.44	1.44	—	—	—	1.44
Corybia	—	—	—	—	—	—	—	—	—	—	—	—	1.15	1.15	—	—	—	1.15
Red Box	—	—	—	—	—	—	—	—	—	—	—	—	0.54	0.54	—	—	—	0.54
Shamel Ash	—	—	—	—	—	—	—	—	—	—	—	—	0.34	0.34	—	—	—	0.34
Melaleuca	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06	—	—	—	0.06
New Zealand Christmas Tree	—	—	—	—	—	—	—	—	—	—	—	—	-15.4	-15.4	—	—	—	-15.4
Coastal Live Oak	—	—	—	—	—	—	—	—	—	—	—	—	-0.36	-0.36	—	—	—	-0.36
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	-13.2	-13.2	—	—	—	-13.2
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Monterey Cypress	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Ironbark	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Corybia	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Red Box	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Shamel Ash	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
Melaleuca	—	—	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	—	—	—	—	—	—
New Zealand Christmas Tree	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—

Coastal Live Oak	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
Subtotal	—	—	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	> -0.005	> -0.005	—	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	> -0.005	—	-15.0	-15.0	—	—	—	-15.0

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	7/1/2026	11/17/2026	5.00	100	—
Site Preparation	Site Preparation	11/18/2026	1/18/2027	5.00	44.0	—
Grading	Grading	1/19/2027	7/21/2027	5.00	132	—
Building Construction	Building Construction	2/1/2027	8/3/2027	5.00	132	—
Paving	Paving	10/5/2027	12/3/2027	5.00	44.0	—
Architectural Coating	Architectural Coating	8/4/2027	10/4/2027	5.00	44.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37

Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Average	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Average	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Average	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Back hoes	Diesel	Average	2.00	8.00	84.0	0.37

Grading	Scrapers	Diesel	Average	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Average	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Average	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Average	1.00	8.00	367	0.29
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Paving	Pavers	Diesel	Average	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	8.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	8.80	LDA,LDT1,LDT2
Demolition	Vendor	4.00	5.30	HHDT,MHDT
Demolition	Hauling	62.0	22.7	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	8.80	LDA,LDT1,LDT2
Site Preparation	Vendor	4.00	5.30	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	8.80	LDA,LDT1,LDT2

Grading	Vendor	4.00	5.30	HHDT,MHDT
Grading	Hauling	46.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	14.0	8.80	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	5.30	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	8.80	LDA,LDT1,LDT2
Paving	Vendor	4.00	5.30	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	8.80	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	5.30	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	16.0	8.80	LDA,LDT1,LDT2
Demolition	Vendor	4.00	5.30	HHDT,MHDT
Demolition	Hauling	62.0	22.7	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	18.0	8.80	LDA,LDT1,LDT2

Site Preparation	Vendor	4.00	5.30	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	8.80	LDA,LDT1,LDT2
Grading	Vendor	4.00	5.30	HHDT,MHDT
Grading	Hauling	46.0	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	14.0	8.80	LDA,LDT1,LDT2
Building Construction	Vendor	6.00	5.30	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	16.0	8.80	LDA,LDT1,LDT2
Paving	Vendor	4.00	5.30	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	4.00	8.80	LDA,LDT1,LDT2
Architectural Coating	Vendor	2.00	5.30	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	0.00	0.00	78,741	26,247	16,031

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	23,200	—
Site Preparation	—	—	66.0	0.00	—
Grading	60,000	—	396	0.00	—
Paving	0.00	0.00	0.00	0.00	6.13

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Golf Course	0.00	0%
Fast Food Restaurant w/o Drive Thru	0.00	0%
Racquet Club	0.00	0%
Parking Lot	6.13	100%
Unrefrigerated Warehouse-No Rail	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	9.99	0.03	< 0.005
2027	0.00	9.99	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VM/Weekday	VM/Saturday	VM/Sunday	VM/Year
Total all Land Uses	176	176	176	64,112	1,335	1,335	1,335	487,251

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VM/Weekday	VM/Saturday	VM/Sunday	VM/Year
Total all Land Uses	176	176	176	64,112	1,335	1,335	1,335	487,251

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	78,741	26,247	16,031

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Golf Course	0.00	233	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	254,265	233	0.0330	0.0040	854,257
Racquet Club	345,725	233	0.0330	0.0040	1,585,673
Parking Lot	234,058	233	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	35,235	233	0.0330	0.0040	146,321

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)
Golf Course	0.00	233	0.0330	0.0040	0.00
Fast Food Restaurant w/o Drive Thru	98,507	233	0.0330	0.0040	854,257
Racquet Club	345,725	233	0.0330	0.0040	1,585,673
Parking Lot	234,058	233	0.0330	0.0040	0.00

Unrefrigerated Warehouse-No Rail	35,235	233	0.0330	0.0040	146,321
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5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Golf Course	0.00	97,449,346
Fast Food Restaurant w/o Drive Thru	2,255,559	0.00
Racquet Club	2,198,883	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,747,094	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Golf Course	0.00	97,449,346
Fast Food Restaurant w/o Drive Thru	2,255,559	0.00
Racquet Club	2,198,883	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	1,747,094	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Golf Course	66.0	—
Fast Food Restaurant w/o Drive Thru	85.6	—
Racquet Club	212	—

Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	7.10	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Golf Course	66.0	—
Fast Food Restaurant w/o Drive Thru	85.6	—
Racquet Club	212	—
Parking Lot	0.00	—
Unrefrigerated Warehouse-No Rail	7.10	—

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
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Racquet Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Racquet Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Golf Course	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Golf Course	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Racquet Club	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Racquet Club	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

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)
Monterey Cypress	42.0	27,352	102
New Zealand Christmas Tree	97.0	121,618	558
Coastal Live Oak	10.0	12,408	58.3
Monterey Cypress	-13.0	8,466	31.4
Ironbark	-18.0	24,147	115
Corybia	-10.0	12,538	57.5
Red Box	-5.00	6,707	31.8
Shamel Ash	-4.00	5,042	16.3
Melaleuca	-1.00	1,253	5.70

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
Monterey Cypress	42.0	27,352	102
New Zealand Christmas Tree	97.0	121,618	558
Coastal Live Oak	10.0	12,408	58.3
Monterey Cypress	-13.0	8,466	31.4
Ironbark	-18.0	24,147	115
Corybia	-10.0	12,538	57.5
Red Box	-5.00	6,707	31.8
Shamel Ash	-4.00	5,042	16.3
Melaleuca	-1.00	1,253	5.70

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	10.1	annual days of extreme heat
Extreme Precipitation	6.95	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	16.8	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	20.8
AQ-PM	11.3

AQ-DPM	55.2
Drinking Water	35.6
Lead Risk Housing	23.5
Pesticides	0.00
Toxic Releases	17.2
Traffic	30.1
Effect Indicators	—
CleanUp Sites	37.6
Groundwater	89.9
Haz Waste Facilities/Generators	88.6
Impaired Water Bodies	51.2
Solid Waste	0.00
Sensitive Population	—
Asthma	25.9
Cardio-vascular	41.2
Low Birth Weights	31.3
Socioeconomic Factor Indicators	—
Education	42.3
Housing	52.6
Linguistic	42.8
Poverty	46.4
Unemployment	25.2

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	56.31977416

Employed	91.91582189
Median HI	62.41498781
Education	—
Bachelor's or higher	76.14525857
High school enrollment	27.3193892
Preschool enrollment	44.69395611
Transportation	—
Auto Access	68.11240857
Active commuting	82.66392917
Social	—
2-parent households	90.61978699
Voting	84.9095342
Neighborhood	—
Alcohol availability	35.64737585
Park access	59.32246888
Retail density	49.32631849
Supermarket access	65.25086616
Tree canopy	56.52508662
Housing	—
Homeownership	32.09290389
Housing habitability	59.43795714
Low-inc homeowner severe housing cost burden	60.95213653
Low-inc renter severe housing cost burden	67.23983062
Uncrowded housing	43.53907353
Health Outcomes	—
Insured adults	79.94353907
Arthritis	0.0
Asthma ER Admissions	68.6

High Blood Pressure	0.0
Cancer (excluding skin)	0.0
Asthma	0.0
Coronary Heart Disease	0.0
Chronic Obstructive Pulmonary Disease	0.0
Diagnosed Diabetes	0.0
Life Expectancy at Birth	45.6
Cognitively Disabled	76.7
Physically Disabled	84.3
Heart Attack ER Admissions	80.7
Mental Health Not Good	0.0
Chronic Kidney Disease	0.0
Obesity	0.0
Pedestrian Injuries	40.1
Physical Health Not Good	0.0
Stroke	0.0
Health Risk Behaviors	—
Binge Drinking	0.0
Current Smoker	0.0
No Leisure Time for Physical Activity	0.0
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	73.6
Children	58.1
Elderly	76.6
English Speaking	53.7
Foreign-born	41.6
Outdoor Workers	66.2

Climate Change Adaptive Capacity	—
Impervious Surface Cover	62.7
Traffic Density	30.8
Traffic Access	0.0
Other Indices	—
Hardship	33.1
Other Decision Support	—
2016 Voting	86.1

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	28.0
Healthy Places Index Score for Project Location (b)	84.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
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Characteristics: Utility Information	Central Coast Community Energy is default provider.
Construction: Construction Phases	Based on applicant provided information.
Construction: Off-Road Equipment	Based on applicant provided information.
Construction: Trips and VMT	Based on applicant provided information.
Construction: Paving	Parking lot restriping/paving.
Operations: Solid Waste	N
Operations: Energy Use	No additional electricity use for parking lot, just paving/restriping.
Operations: Water and Waste Water	Based on landscaping plan.

1-Tree Planting
Report produced for Gillette, CA from 1-Tree Planting v2.7.2
This is an 1-TreeMP benefits and tree growth forecast.
Total number of trees planted in this project: 149
Electricity Emissions Factor: 202.4
Fuel Emissions Factor: 52
Project years: 30
Annual Tree Mortality: 3
Run Date: 4.8.2025

Tree Group Characteristics		Initial Number of Trees	Species	Initial DBH (inches)	Distance to Building (feet)	Direction	Building Footage	Tree Condition	Crown/Light Exposure	DBH (inches)	Height (feet)	Surviving Trees	Roof Area (square feet)	Canopy Cover (square feet)	Biomass (short ton)	CO2 Absorbed (pounds)	CO2 Avoided (\$)	CO2 Sequestered (pounds)	CO2 Sequestered (\$)	Electricity Saved (kWh)	Electricity Saved (\$)	Fuel Saved (MMBtu)	Fuel Saved (\$)	Rainfall Interception (gallons)	Evaporation (gallons)	Transpiration (gallons)	Avoided Runoff (gallons)	Avoided Runoff (\$)	O3 Removed (pounds)	NO2 Avoided (pounds)	NO2 Removed (pounds)	SO2 Absorbed (pounds)	SO2 Removed (pounds)	VOC Absorbed (pounds)	PM2.5 Absorbed (pounds)	PM2.5 Removed (pounds)	Avoided Value (\$)	Removal Value (\$)
1	42 Monterey cypress/Cupressus	42	Monterey cypress(Cupressus macrocarpa)	1	0-10	north (S*)	6000-10800	excellent	full sun	17.3	49	17	26.3	6,744.30	18.1	26,351.70	\$1,671.80	150,361.80	\$5,605.95	27,351.70	\$1,598.88	101.5	\$1,312.79	172,063.00	172,000.00	\$13,351.40	\$4,358.10	\$398.95	180.63	2.04	18.3	7.17	1.15	34.25	8.98	2.02	\$57.48	\$646.11
2	17 New Zealand Christmas tree	97	New Zealand Christmas tree(Phoradendron excelsa)	1	0-10	north (S*)	6000-10800	excellent	full sun	21.8	59.8	49	104.2	22,426.70	128	158,255.30	\$1,158.21	1,010,427.80	\$59,918.67	221,817.68	\$24,495.12	559.2	\$7,223.12	558,158.60	558,527.20	1,542,784.00	109,345.70	\$992.48	752.9	9.84	77.51	34.90	4.65	63.93	40.15	15.65	\$200.70	\$2,301.40
3	10 Coastal live oak/Quercus lae	10	Coastal live oak(Quercus agrifolia)	1	0-10	north (S*)	6000-10800	excellent	full sun	15.5	64.1	4.1	8.4	2,379.90	4.6	14,382.20	\$941.09	22,009.80	\$1,387.26	12,408.00	\$5,530.02	98.3	\$754.65	63,782.20	63,781.50	160,424.80	58,736.70	\$95.94	63.41	1.03	6.47	0.81	6.4	6.53	4.09	1.13	\$36.88	\$234.48
Cumulative graph data				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
Year																																						
Sequestered & Avoided Carbon	426.1888373	999.9901748	1738.069967	2645.179996	3723.232429	4904.369669	6430.171607	8091.85647	9937.842572	11937.363	14111.42258	16446.800511	18937.89539	21579.18021	24364.66088	27288.01425	30328.5813	33455.72355	36681.06429	40038.46748	43629.1051	47469.17464	51347.86465	54958.68134	58610.89961	62401.33706	66228.00832	70088.13921	73979.29022	77898.53037								
Energy	895.4020989	1507.890375	2355.996424	3118.171022	3872.160777	4622.247832	5463.187656	6305.49325	7198.45749	8048.12785	8946.45147	11128.0466	12541.81467	13747.59979	14954.58217	16159.49363	17462.33022	18756.50739	20141.12095	21602.46059	24739.24815	26931.78046	29044.52733	31115.38755	33123.41028	35078.42212	36988.73928	38857.51256	40692.36698	42324.67586								
Avoided Runoff	22.54588475	46.80203025	72.87136264	105.79073	135.5736957	162.2388882	195.7711597	231.387269	268.4116467	307.48605	348.3872953	391.0283259	435.4383802	481.5664706	529.3709073	578.9184086	629.8626988	682.5948696	736.2797861	791.3563398	847.5263638	904.6645787	962.6880338	1021.424214	1080.851656	1140.878884	1201.462378	1262.576401	1323.713027	1385.170466								
Air Pollution	26.62622211	68.84483428	106.84483428	138.5450582	185.1683885	237.8342143	297.1431583	365.5925083	443.087288	527.5942384	626.1942595	721.3545262	821.5505903	921.8883476	1008.439126	1219.051741	1376.95846	1530.48237	1705.25327	1885.881345	2084.647444	2300.080268	2511.893301	2719.12278	2953.111028	3188.509122	3412.055963	3647.475122	3888.596429	4125.178816								
Combined Benefits	1362.760683	3095.396414	4584.637319	6062.107346	7511.689211	10038.461151	12396.77231	15394.73779	18937.70901	23709.57114	29239.40902	35897.49016	42746.88441	49708.40082	49008.8491	46246.19812	48791.74051	54427.33816	60273.74127	65388.1734	71461.12095	77588.10988	83666.89602	89704.12088	95788.07247	101707.2332	107619.1749	113565.5003	119791.6984	125707.7503								

1-Tree Planting
Report produced for Gillette, CA from 1-Tree Planting v2.7.2
This is an 1-TreeAP benefits and tree growth forecast.
Total number of trees planted in this project: 53
Electricity Emissions Factor: 202.4
Fuel Emissions Factor: 52
Project years: 30
Annual Tree Mortality: 3
Run Date: 4.8.2025

Group Identifier	Tree Group Characteristics		Initial Number of Trees	Species	Initial DBH (inches)	Distance to Building (feet)	Direction	Building Vintage	Tree Condition	Crown Light Exposure	DBH (inches)	Height (feet)	Shading Trees	Basal Area (square feet)	Canopy Cover (square feet)	Biomass (short tons)	CO2 Absorbed (pounds)	CO2 Avoided (\$)	CO2 Sequestered (pounds)	CO2 Sequestered (\$)	Electricity Saved (kWh)	Electricity Saved (\$)	Fuel Saved (MMBtu)	Fuel Saved (\$)	Rainfall Interception (gallons)	Evaporation (gallons)	Transpiration (gallons)	Avoided Runoff (gallons)	Avoided Runoff (\$)	O3 Removed (pounds)	NO2 Absorbed (pounds)	NO2 Removed (pounds)	SO2 Absorbed (pounds)	SO2 Removed (pounds)	VOC Absorbed (pounds)	PM2.5 Absorbed (pounds)	PM2.5 Removed (pounds)	Avoided Value (\$)	Removal Value (\$)
	Tree Group Characteristics	Initial Number of Trees																																					
1	13 Monterey cypress(Cupressus macrocarpa)	13	Monterey cypress(Cupressus macrocarpa)	1	0-19	north (dN)	post-1980	excellent	full sun	17.3	40	5.4	8.8	2,987.50	5.8	8,789.30	\$517.46	31,898.10	\$1,833.69	8,468.00	\$1,732.99	31.4	\$466.34	61,239.00	61,238.10	158,863.00	15,632.20	\$96.01	66.91	0.63	5.67	2.22	0.36	4.41	2.78	0.9	\$17.85	\$109.61	
2	18 Ironbark(Eucalyptus sideroxilum)	18	Ironbark(Eucalyptus sideroxilum)	1	0-19	north (dN)	post-1980	excellent	full sun	17.3	57.5	7.4	21.1	3,256.50	17.5	27,865.10	\$1,545.29	95,933.90	\$5,567.73	24,148.70	\$4,542.82	114.6	\$1,402.30	97,764.20	97,762.30	291,766.30	19,536.20	\$124.59	116.6	2.02	11.90	7.66	0.75	12.71	7.96	2.15	\$51.95	\$437.10	
3	10 Corymbia spp(Corymbia)	10	Corymbia spp(Corymbia)	1	0-19	north (dN)	post-1980	excellent	full sun	21.8	59.8	4.1	10.7	1,904.10	14.9	14,251.10	\$841.05	76,371.00	\$4,504.53	12,537.90	\$2,568.51	67.6	\$744.67	49,898.30	49,897.30	148,894.00	9,905.00	\$69.05	62.3	1.03	6.39	4.13	1.19	\$28.89	\$236.55				
4	5 Red bane(Eucalyptus polythemos ssp. polythemos)	5	Red bane(Eucalyptus polythemos ssp. polythemos)	1	0-19	north (dN)	post-1980	excellent	full sun	21.8	64.4	2.1	5.4	1,162.40	7	7,745.00	\$457.02	36,006.20	\$1,244.67	6,707.40	\$1,373.01	31.8	\$411.01	28,921.80	28,920.80	86,300.30	5,775.80	\$51.61	35.57	0.56	3.65	0.25	3.33	2.21	0.87	\$14.43	\$134.38		
5	4 Shumard's oaks(Ficusus umbell)	4	Shumard's oaks(Ficusus umbell)	1	0-19	north (dN)	post-1980	excellent	full sun	27.7	89.2	1.7	6.9	899.2	4.4	4,846.50	\$291.83	22,704.40	\$1,139.72	5,842.20	\$1,032.14	16.3	\$218.79	19,663.00	19,661.50	56,476.30	3,927.00	\$53.09	25.37	0.36	2.4	1.25	2.61	1.65	0.38	\$13.53	\$93.87		
6	1 Melaleuca spp(Melaleuca)	1	Melaleuca spp(Melaleuca)	1	0-19	north (dN)	post-1980	excellent	full sun	17.3	53.8	0.41	0.67	317.3	0.8	1,424.40	\$84.05	4,113.50	\$242.73	1,253.40	\$256.57	5.7	\$74.39	8,038.80	8,038.50	23,967.00	1,605.40	\$14.35	8.13	0.1	0.62	0.36	0.05	0.86	0.41	0.13	\$2.69	\$29.18	
Cumulative graph data				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30						
Year	131,197,434	308,484,624	533,885,985	857,746,508	1,126,749,832	1,508,635,278	1,858,484,071	2,461,698,395	3,015,522,152	3,627,477,567	4,286,885,749	4,902,740,293	5,742,609,021	6,337,739,427	7,373,324,760	8,246,476,070	9,128,503,979	10,022,612,120	10,951,463,890	11,846,884,640	12,715,185,700	13,555,653,337	14,372,023,228	15,165,546,625	15,937,881,570	16,689,527,590	17,418,389,590	18,127,262,480	18,817,587,560	19,499,797,000									
Sequestered & Avoided Carbon	273,844,231	633,434,872	791,144,878	1,048,847,979	1,320,817,792	1,696,496,332	1,981,892,391	2,312,279,711	2,725,523,384	3,176,899,367	3,637,463,673	4,079,249,554	4,520,309,574	4,979,729,922	5,438,843,346	5,873,846,771	6,351,757,741	7,061,647,457	7,754,501,617	8,527,819,552	9,296,420,488	10,039,246,664	10,772,824,666	11,461,630,210	12,133,183,887	12,799,987,374	13,429,589,894	14,064,449,931	14,651,973,778	15,234,902,926									
Energy	7,849,550.99	18,247,881.7	25,234,139.25	34,827,232.59	45,038,252.00	55,866,198.90	67,318,193.03	79,180,139.50	92,026,939.84	105,389,330.90	119,180,276.90	148,899,906.40	168,899,906.40	184,579,259.40	198,816,865.20	197,816,035.40	214,948,360.20	232,757,401.90	250,180,281.70	269,478,913.60	288,225,909.80	307,190,398.70	326,134,965.90	345,164,989.30	364,512,227.50	383,683,337.60	402,451,597.00	421,852,581.70	440,796,931.80	459,609,774.40									
Avoided Runoff	8,935,187.42	19,515,155.28	26,463,975.17	43,467,149.39	58,309,857.30	75,346,775.12	93,780,259.87	115,796,235.40	139,879,342.90	166,884,415.90	196,271,402.30	226,550,906.40	261,254,149.50	301,126,845.40	342,296,079.40	386,220,931.30	434,515,902.80	486,690,903.90	541,517,903.90	601,532,945.10	662,157,447.90	723,703,985.10	786,599,998.50	848,460,985.00	911,493,989.20	975,519,949.50	1,039,129,234.00	1,101,261,565.00	1,161,694,864.00	1,226,519,972.00									
Combined Benefits	426,696,358	878,145,873.1	1,380,727,568	1,932,689,567	2,560,899,050	3,257,938,896	4,021,254,710	4,909,040,241	5,973,193,483	7,076,801,890	8,229,917,985	9,433,136,147	10,665,087,940	11,983,153,570	13,325,849,770	14,788,558,740	16,329,178,880	17,833,916,170	19,499,243,820	21,256,904,470	22,964,939,340	24,625,773,890	26,242,883,320	27,815,336,450	29,347,589,560	30,839,046,480	32,288,886,620	33,899,586,628	35,073,132,490	36,411,141,000									

GHG Emission Reductions from Electric Vehicle Chargers

Passenger Car GHG Emissions Reductions Calculations	From 2030 Climate Action Plan	Proposed Project
Year	2030	2027
Passenger ICE VMT after RTP/SCS VMT reductions (miles)	1,388,124,618	487,251.00
Passenger VMT EF (MT CO ₂ e/VMT)	0.00030583	0.00030583
EV adoption beyond baseline	18.20%	18.2%
Emission Reduction from EV increased adoption (MT CO ₂ e)	77,136	27.12
EV electricity usage (kWh/mile)	0.368515183	0.368515183
EV electricity usage from increased EV adoption (kWh)	92,945,312	32,679.81
Weighted electricity EF (MT CO ₂ e/kWh) ¹	0.000004593	0.000105687
Emissions from electricity usage for EVs	427	3.45
Total Reductions (MT CO₂e)	76,709	23.67

Source: Table 9 of Appendix C to Appendix A of the 2030 Climate Action Plan Final Environmental Impact Report, May 2024

<https://cosantabarbara.app.box.com/s/zwt261kiiz71y638he2ts27b2v3wrbnm>

Notes: 1 Weighted electricity EF for project from Central Coast Community Energy for buildout year, consistent with CalEEMod.



Caution: Photovoltaic system performance predictions calculated by PVWatts® include many inherent assumptions and uncertainties and do not reflect variations between PV technologies nor site-specific characteristics except as represented by PVWatts® inputs. For example, PV modules with better performance are not differentiated within PVWatts® from lesser performing modules. Both NREL and private companies provide more sophisticated PV modeling tools (such as the System Advisor Model at [//sam.nrel.gov](https://sam.nrel.gov)) that allow for more precise and complex modeling of PV systems.

The expected range is based on 30 years of actual weather data at the given location and is intended to provide an indication of the variation you might see. For more information, please refer to this NREL report: The Error Report.

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RESULTS

155,758 kWh/Year*

System output may range from 149,652 to 159,340 kWh per year near this location.

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	4.29	9,857
February	4.84	10,080
March	5.95	13,285
April	6.72	14,541
May	6.95	15,441
June	7.07	14,799
July	7.25	15,670
August	7.33	15,737
September	6.38	13,408
October	5.70	12,704
November	4.80	10,559
December	4.22	9,678
Annual	5.96	155,759

Location and Station Identification

Requested Location	93117, USA	
Weather Data Source	Lat, Lng: 34.45, -119.82	1.0 mi

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OTHER TORTIOUS CLAIM THAT ARISES OUT
OF OR IN CONNECTION WITH THE USE OR
PERFORMANCE OF THE MODEL.

The energy output range is based on
analysis of 30 years of historical weather
data, and is intended to provide an
indication of the possible interannual
variability in generation for a Fixed (open
rack) PV system at this location.

Latitude	34.45° N
Longitude	119.82° W

PV System Specifications

DC System Size	93.3 kW					
Module Type	Standard					
Array Type	Fixed (open rack)					
System Losses	14.08%					
Array Tilt	20°					
Array Azimuth	180°					
DC to AC Size Ratio	1.2					
Inverter Efficiency	96%					
Ground Coverage Ratio	0.4					
Albedo	From weather file					
Bifacial	No (0)					
Monthly Irradiance Loss	Jan	Feb	Mar	Apr	May	June
	0%	0%	0%	0%	0%	0%
	July	Aug	Sept	Oct	Nov	Dec
	0%	0%	0%	0%	0%	0%

Performance Metrics

DC Capacity Factor	19.1%
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