

TECHNICAL MEMORANDUM

DATE June 12, 2025

TO Jordan Clark, Century Communities

ADDRESS 1343 East Gladstone #300
Glendora, CA 91740

FROM Lance Park, Senior Associate

SUBJECT Air Quality and Greenhouse Gas Emissions Technical Memorandum for Buffalo Grove Residential Development

PROJECT NUMBER CECO-01

PlaceWorks' technical staff has prepared an air quality and greenhouse gas (GHG) emissions memorandum to support the environmental documentation required under the California Environmental Quality Act (CEQA) for the proposed residential townhome development (proposed project) in Upland, California.

Project Location

The 4.37-acre project site is at 1812 and 1816 Foothill Boulevard in Upland. The project site is bounded by Foothill Boulevard (State Route [SR] 66) to the north and various commercial and industrial uses to the west, south, and east. The project site is approximately 1,390 feet south of Cable Airport. The property is primarily vacant but contains improvements associated with the former Buffalo Inn Hotel, including approximately 1,800 square feet of building space, approximately 45,000 square feet of asphalt pavement, and approximately 2,000 square feet of concrete hardscape.

Project Description

The proposed project involves construction and operation of 72 detached townhome units and associated improvements. Development of the proposed project would occur over a single development phase and encompass 169,944 square feet of residential building space, as well as a 1,575-square-foot sewer lift station. The proposed project would offer three different styles of townhomes in sizes from 1,695 square feet to 1,958 square feet. Each unit would have three stories and a two-stall garage, for a total of 144 private garage stalls. Also, 25 surface parking stalls encompassing 4,380 square feet would be distributed across the site. An open space amenity area would be provided for residents at the center of the site. Additional improvements include 41,328 square feet of landscaping, 20,500 square feet of concrete hardscape, and 46,200 square feet of asphalt paving. The proposed project is anticipated to be constructed over approximately five months between December 2026 and May 2027. Construction activities would generally involve demolition, site preparation, grading, building construction, architectural coating, and paving.

Modeling Methodology

Projected construction- and operation-related air pollutant emissions are calculated using the California Emissions Estimator Model (CalEEMod), Version 2022.1. CalEEMod compiles an emissions inventory of construction sources (fugitive dust, off-gas, on-road, and off-road); area sources; mobile sources; and annual indirect emissions from energy use, waste disposal, and water/wastewater use. Operation-related mobile emissions are based on the vehicle trip generation and vehicle miles traveled data provided by TJW Engineering Inc. The calculated emissions of the proposed project are compared to thresholds of significance for individual projects per the South Coast Air Quality Management District’s (South Coast AQMD) *CEQA Air Quality Handbook* (South Coast AQMD 1993).

Thresholds of Significance

AIR QUALITY

The analysis of the proposed project’s air quality impacts follows the guidance and methodologies recommended in the *CEQA Air Quality Handbook* and the significance thresholds on South Coast AQMD’s website (South Coast AQMD 1993, 2023a). CEQA allows the significance criteria established by the applicable air quality management or air pollution control district to be used to assess a project’s impacts on air quality. South Coast AQMD has established thresholds of significance for regional air quality emissions for construction activities and project operation. In addition to the daily thresholds, projects are also subject to the ambient air quality standards (AAQS). These are addressed through an analysis of localized carbon monoxide (CO) impacts and localized significance thresholds.

Regional Significance Thresholds

South Coast AQMD has adopted regional construction and operational emissions thresholds to determine a project’s cumulative impact on air quality in the South Coast Air Basin (SoCAB). Table 1, *South Coast AQMD Regional Significance Thresholds*, lists thresholds that are applicable for all projects uniformly, regardless of size or scope. There is growing evidence that although ultrafine particulates (PM_{0.1}) contribute a very small portion of the overall atmospheric mass concentration, they represent a greater proportion of the health risk from particulate matter (PM). However, the United States Environmental Protection Agency (EPA) and California Air Resources Board (CARB) have not yet adopted AAQS to regulate ultrafine particulates; therefore, South Coast AQMD has not developed thresholds for them.

Table 1 South Coast AQMD Regional Significance Thresholds

Air Pollutant	Construction Phase	Operational Phase
Reactive Organic Gases (ROGs)/Volatile Organic Compounds (VOCs)	75 lbs/day	55 lbs/day
Nitrogen Oxides (NO _x)	100 lbs/day	55 lbs/day
Carbon Monoxide (CO)	550 lbs/day	550 lbs/day
Sulfur Oxides (SO _x)	150 lbs/day	150 lbs/day
Coarse Particulates (PM ₁₀)	150 lbs/day	150 lbs/day
Fine Particulates (PM _{2.5})	55 lbs/day	55 lbs/day

Source: South Coast AQMD 2023a.

Projects that exceed the regional significance thresholds contribute to the nonattainment designation of the SoCAB. The attainment designations are based on the AAQS, which are set at levels of exposure that are determined to not result in adverse health effects. Exposure to fine particulate pollution and ozone causes myriad health impacts, particularly to the respiratory and cardiovascular systems, including the following.

- » Increase in cancer risk (PM_{2.5}, toxic air contaminants [TACs])
- » Aggravation of respiratory disease (ozone [O₃], PM_{2.5})
- » Increase in bronchitis (O₃, PM_{2.5})
- » Cause of chest discomfort, throat irritation, and increased effort to take a deep breath (O₃)
- » Reduction in resistance to infections and increases fatigue (O₃)
- » Reduction in lung growth in children (PM_{2.5})
- » Contribution to heart disease and heart attacks (PM_{2.5})
- » Contribution to premature death (O₃, PM_{2.5})
- » Reduction in birth weight in newborns (PM_{2.5}) (South Coast AQMD 2015a)

Exposure to fine particulates and ozone aggravates asthma attacks and can amplify other lung ailments, such as emphysema and chronic obstructive pulmonary disease. Exposure to current levels of PM_{2.5} is responsible for an estimated 4,300 cardiopulmonary-related deaths per year in the SoCAB. In addition, University of Southern California scientists responsible for a landmark children's health study found that lung growth improved as air pollution declined for children aged 11 to 15 in five communities in the SoCAB (South Coast AQMD 2015b).

Mass emissions in Table 1 are not correlated with concentrations of air pollutants but contribute to the cumulative air quality impacts in the SoCAB. Therefore, regional emissions from a single project do not usually trigger a regional health impact. South Coast AQMD is the primary agency responsible for ensuring the health and welfare of individuals sensitive to elevated concentrations of air quality in the SoCAB. To achieve the health-based standards established by the EPA, South Coast AQMD prepares an air quality management plan (AQMP) that details regional programs to attain the AAQS.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the State's one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to ambient air quality standards is typically demonstrated through an analysis of localized CO concentrations. Hot spots are typically produced at intersections where traffic congestion is highest because vehicles queue for longer periods and are subject to reduced speeds. With the turnover of older vehicles, introduction of cleaner fuels, and implementation of control technology on industrial facilities, CO concentrations in the SoCAB and in the state have steadily declined.

In 2007, the SoCAB was designated in attainment for CO under both the California AAQS and National AAQS. The CO hotspot analysis conducted for attainment by South Coast AQMD did not predict a violation of CO standards at the busiest intersections in Los Angeles during the peak morning and afternoon periods.¹ As identified in South Coast AQMD's 2003 AQMP and the 1992 Federal Attainment Plan for Carbon Monoxide (1992 CO Plan), peak carbon monoxide concentrations in the SoCAB in previous years were a result of unusual meteorological and topographical conditions and not a result of congestion at a particular intersection (South Coast AQMD 1992, 2003). The South Coast

¹ The four intersections were: Long Beach Boulevard and Imperial Highway; Wilshire Boulevard and Veteran Avenue; Sunset Boulevard and Highland Avenue; and La Cienega Boulevard and Century Boulevard. The busiest intersection evaluated (Wilshire and Veteran) had a daily traffic volume of approximately 100,000 vehicles per day, with level of service (LOS) E in the morning peak hour and LOS F in the evening peak hour.

AQMD does not currently have adopted CO hotspot screening guidance, so guidance from the Bay Area Air District was used to determine whether the proposed project may result in potentially significant impacts related to CO hotspot generation. According to BAAQMD’s CEQA Air Quality Guidelines, to generate a significant CO impact under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal air does not mix (Bay Area Air District 2023).²

LOCALIZED SIGNIFICANCE THRESHOLDS

South Coast AQMD developed localized significance thresholds (LST) for emissions of NO₂, CO, PM₁₀, and PM_{2.5} generated at the project site (off-site mobile-source emissions are not included in the LST analysis). LSTs represent the maximum emissions at a project site that are not expected to cause or contribute to an exceedance of the most stringent federal or State AAQS and are shown in Table 2, *South Coast AQMD Localized Significance Thresholds*.

Table 2 South Coast AQMD Localized Significance Thresholds

Air Pollutant (Relevant AAQS)	Concentration
1-Hour CO Standard (CAAQS)	20 ppm
8-Hour CO Standard (CAAQS)	9.0 ppm
1-Hour NO ₂ Standard (CAAQS)	0.18 ppm
Annual NO ₂ Standard (CAAQS)	0.03 ppm
24-Hour PM ₁₀ Standard – Construction (South Coast AQMD) ¹	10.4 µg/m ³
24-Hour PM _{2.5} Standard – Construction (South Coast AQMD) ¹	10.4 µg/m ³
24-Hour PM ₁₀ Standard – Operation (South Coast AQMD) ¹	2.5 µg/m ³
24-Hour PM _{2.5} Standard – Operation (South Coast AQMD) ¹	2.5 µg/m ³

Source: South Coast AQMD 2023a.

ppm – parts per million; µg/m³ – micrograms per cubic meter

¹ Threshold is based on South Coast AQMD Rule 403. Since the SoCAB is in nonattainment for PM₁₀ and PM_{2.5}, the threshold is established as an allowable change in concentration. Therefore, background concentration is irrelevant.

To assist lead agencies, South Coast AQMD developed screening-level LSTs to back-calculate the mass amount (lbs. per day) of emissions generated on-site that would trigger the levels shown in Table 2 for projects under 5 acres. In accordance with South Coast AQMD’s LST methodology, the screening-level construction LSTs are based on the acreage disturbed per day by equipment use and distance to sensitive receptors. The nearest sensitive receptors to the project site are single-family residences located 654 feet west of the project boundary along Starry Night and Wild Woods. The screening-level construction LSTs for the project site in Source Receptor Area 32 (SRA 32), Northwest San Bernardino Valley, are shown in Table 3, *South Coast AQMD Screening-Level Construction Localized Significance Thresholds*, for residential sensitive receptors within 654 feet (200 meters).

² The CO hotspot analysis refers to the modeling conducted by the Bay Area Air Quality Management District (BAAQMD) for its 2022 CEQA Guidelines because it is based on newer data and considers the improvement in mobile-source CO emissions. Although meteorological conditions in the Bay Area differ from those in the SoCAB, the modeling conducted by BAAQMD demonstrates that the peak-hour traffic volumes at an intersection in a single hour would need to be substantial. This finding is consistent with the CO hotspot analysis South Coast AQMD prepared as part of its 2003 AQMP to provide support in seeking CO attainment for the SoCAB. Based on that analysis, no CO hotspots were predicted for the SoCAB. As noted in the preceding footnote, the analysis included some of Los Angeles’ busiest intersections, with daily traffic volumes of 100,000 or more daily vehicle trips operating at LOS E and F.

Table 3 South Coast AQMD Screening-Level Construction Localized Significance Thresholds

Acreage Disturbed	Threshold (lbs/day)			
	Nitrogen Oxides (NO _x)	Carbon Monoxide (CO)	Coarse Particulates (PM ₁₀)	Fine Particulates (PM _{2.5})
≤1.00 Acre Disturbed Per Day	334	5,691	103	32
1.31 Acres Disturbed Per Day	348	6,028	92	33
1.50 Acres Disturbed Per Day	356	6,235	85	34
2.81 Acres Disturbed Per Day	407	7,543	86	38
3.00 Acres Disturbed Per Day	414	7,722	91	39

Source: South Coast AQMD 2008, 2011.

Notes: In accordance with South Coast AQMD methodology, only on-site stationary sources and mobile equipment are included in the analysis. Screening level LSTs are based on a distance 200 meters for NO_x, CO, PM₁₀, and PM_{2.5} in SRA 32.

Health Risk

Whenever a project would require use of chemical compounds that have been identified in South Coast AQMD Rule 1401, placed on CARB’s air toxics list pursuant to Assembly Bill (AB) 1807, or placed on the EPA’s National Emissions Standards for Hazardous Air Pollutants, a health risk assessment is required by the South Coast AQMD. Table 4, *South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds*, lists the South Coast AQMD’s TAC incremental risk thresholds for operation of a project.

Table 4 South Coast AQMD Toxic Air Contaminants Incremental Risk Thresholds

Maximum Incremental Cancer Risk	≥ 10 in 1 million
Cancer Burden (in areas ≥ 1 in 1 million)	> 0.5 excess cancer cases
Hazard Index (project increment)	≥ 1.0

Source: South Coast AQMD 2023a.

The purpose of this environmental evaluation is to identify the significant effects of the proposed project on the environment, not the significant effects of the environment on the proposed project. *California Building Industry Association v. Bay Area Air Quality Management District* (2015) 62 Cal.4th 369 (Case No. S213478).

The primary sources of potential air toxics associated with project operations include diesel particulate matter (DPM) from delivery trucks (e.g., truck traffic on local streets and idling on adjacent streets) and, to a lesser extent, building operations (e.g., natural gas-fired boilers). However, overall, residential land uses are not the types of land uses that generate a substantial number of trucks or a substantial amount of TAC emissions. Land uses that have the potential to generate substantial stationary sources of emissions include industrial projects that require a permit from South Coast AQMD, such as chemical processing, or warehousing projects where substantial truck idling could occur on-site (CARB 2005). Due to the type of land use proposed under the project, toxic or carcinogenic air pollutants are not expected in any meaningful amounts in conjunction with operation of the proposed project. Therefore, an analysis of the project’s operational TAC emissions is not warranted.

DRAFT OPERATIONAL CUMULATIVE HEALTH RISK THRESHOLDS

South Coast AQMD initiated a Working Group to identify cumulative health risk thresholds for development projects to address community concerns about health risk impacts for new projects being developed in areas where there is a higher pollution burden. The cumulative health risk threshold methodology first uses a screening approach to identify whether projects can qualitatively address cumulative health risk or quantitatively address health risk:

- » **Low Cancer Risk Project Types:** Residential, commercial, recreational, educational, and retail.
- » **Medium Cancer Risk Project Types:** Truck yards, gas stations, small industrial projects, and linear projects.
- » **High Cancer Risk Project Types.** Industrial, major transportation projects (airports, port, railyard, bus/train station), and major planning projects.

For projects with low and medium cancer risks, like the proposed project, no quantitative analysis is required. Thus, a cancer risk analysis for the proposed project would not be warranted.

GREENHOUSE GAS EMISSIONS

The CEQA Guidelines recommend that a lead agency consider the following when assessing the significance of impacts from GHG emissions on the environment:

1. The extent to which the project may increase (or reduce) GHG emissions as compared to the existing environmental setting.
2. Whether the project emissions exceed a threshold of significance that the lead agency determines applies to the project.
3. The extent to which the project complies with regulations or requirements adopted to implement an adopted statewide, regional, or local plan for the reduction or mitigation of GHG emissions.³

South Coast Air Quality Management District

To provide guidance to local lead agencies on determining significance for GHG emissions in their CEQA documents, South Coast AQMD convened a GHG CEQA Significance Threshold Working Group. Based on the last Working Group meeting (Meeting No. 15) in September 2010, South Coast AQMD identified a tiered approach for evaluating GHG emissions for development projects where South Coast AQMD is not the lead agency (South Coast AQMD 2010a):

- » **Tier 1.** If a project is exempt from CEQA, project-level and contribution to significant cumulative GHG emissions are less than significant.
- » **Tier 2.** If the project complies with a GHG emissions-reduction plan or mitigation program that avoids or substantially reduces GHG emissions in the project's geographic area (e.g., city or county), project-level and contribution to significant cumulative GHG emissions are less than significant.
- » **Tier 3.** If GHG emissions are less than the screening-level threshold, project-level and contribution to significant cumulative GHG emissions are less than significant.

³ The Governor's Office of Land Use and Climate Innovation recommends a requirement that such a plan must be adopted through a public review process and include specific requirements that reduce or mitigate the project's incremental contribution of GHG emissions. If there is substantial evidence that the possible effects of a particular project are still cumulatively considerable, notwithstanding compliance with the adopted regulations or requirements, an environmental impact report (EIR) must be prepared for the project.

For projects that are not exempt or where no qualifying GHG reduction plans are directly applicable, South Coast AQMD requires an assessment of GHG emissions. Project-related GHG emissions include on-road transportation, energy use, water use, wastewater generation, solid waste disposal, area sources, off-road emissions, and construction activities. The Working Group determined that because construction activities would result in a “one-time” net increase in GHG emissions, they should be amortized into the operational phase GHG emissions inventory based on the service life of a building. In general, it is reasonable to look at a 30-year time frame, since this is a typical interval before a new building requires the first major renovation. For projects where South Coast AQMD is not the lead agency, South Coast AQMD identified a screening-level threshold of 3,000 metric tons of CO₂ equivalence (MTCO_{2e}) annually for all land use types or the following land-use-specific thresholds: 1,400 MTCO_{2e} for commercial projects, 3,500 MTCO_{2e} for residential projects, or 3,000 MTCO_{2e} for mixed-use projects. These bright-line thresholds are based on a review of the Governor’s Office of Land Use and Climate Innovation database of CEQA projects. Based on a review of 711 CEQA projects, 90 percent of CEQA projects would exceed these bright-line thresholds. Therefore, projects that do not exceed the bright-line threshold would have a nominal, and therefore, less than cumulatively considerable impact on GHG emissions. South Coast AQMD recommends use of the 3,000 MTCO_{2e} bright-line threshold for all project types (South Coast AQMD 2010b).

- » **Tier 4.** If emissions exceed the screening threshold, a more detailed review of the project’s GHG emissions is warranted.

The South Coast AQMD Working Group identified an efficiency target for projects that exceed the screening threshold of 4.8 MTCO_{2e} per year per service population (MTCO_{2e}/year/SP) for project-level analyses and 6.6 MTCO_{2e}/year/SP for plan-level projects (e.g., program-level projects such as general plans) for the year 2020.⁴ The per-capita efficiency targets are based on the AB 32 GHG reduction target and 2020 GHG emissions inventory prepared for CARB’s 2008 Scoping Plan.⁵

For purposes of this analysis, the bright-line threshold of 3,000 MTCO_{2e}/yr recommended by South Coast AQMD is used to evaluate potential project-related GHG emissions impacts.

Environmental Impact

AIR QUALITY

The Air Quality section addresses the impacts of the proposed project on ambient air quality and the exposure of people, especially sensitive individuals, to unhealthy pollutant concentrations. The results of the air quality modeling can be found in Attachment A.

The primary air pollutants of concern for which the AAQS have been established are ozone (O₃), carbon monoxide (CO), coarse inhalable particulate matter (PM₁₀), fine inhalable particulate matter (PM_{2.5}), sulfur dioxide (SO₂), nitrogen dioxide (NO₂), and lead (Pb). Areas are classified under the federal and California Clean Air Act as either in attainment or nonattainment for each criteria pollutant based on whether the AAQS have been achieved. The SoCAB, which is managed by the South Coast AQMD, is designated nonattainment for O₃ and PM_{2.5} under the California and National AAQS, nonattainment for PM₁₀ under the California AAQS, and nonattainment for lead (Los Angeles County only) under the National AAQS (CARB 2024).

⁴ It should be noted that the Working Group also considered efficiency targets for 2035 for the first time in this Working Group meeting.

⁵ South Coast AQMD took the 2020 statewide GHG reduction target for land-use-only GHG emissions sectors and divided it by the 2020 statewide employment for the land use sectors to derive a per-capita GHG efficiency metric that coincides with the GHG reduction targets of AB 32 for year 2020.

The South Coast AQMD has identified regional thresholds of significance for criteria pollutant emissions and criteria air pollutant precursors, including VOC, CO, nitrogen oxides (NO_x), SO₂, PM₁₀, and PM_{2.5}. Development projects below the regional significance thresholds are not expected to generate sufficient criteria pollutant emissions to violate any air quality standard or contribute substantially to an existing or projected air quality violation. Where available, the significance criteria established by the South Coast AQMD may be relied upon to make the following determinations. The following describes project-related regional, localized, and odor impacts from operational activities from implementation of the project.

Would the project:

a) Conflict with or obstruct implementation of the applicable air quality plan?

A consistency determination with the AQMP plays an important role in local agency project review by linking local planning and individual projects to the AQMP. It fulfills the CEQA goal of informing decision makers of the environmental efforts of the project under consideration early enough to ensure that air quality concerns are fully addressed. It also provides the local agency with ongoing information as to whether they are contributing to the clean air goals in the AQMP.

The South Coast AQMD adopted the 2022 Air Quality Management Plan (AQMP) on December 2, 2022. Regional growth projections are used by South Coast AQMD to forecast future emission levels in the SoCAB. For southern California, these regional growth projections are provided by the Southern California Association of Governments (SCAG) and are partially based on land use designations in city/county general plans. Thus, projects that are consistent with the local general plan are considered consistent with the air quality-related regional plan. Additionally, only large, regionally significant projects have the potential to affect the regional growth projections.

Changes in population, housing, or employment growth projections have the potential to affect SCAG's demographic projections and therefore the assumptions in South Coast AQMD's AQMP. Per CEQA Guidelines Section 15206(b), a proposed project is of statewide, regional, or area-wide significance if the project is a residential development of more than 500 dwelling units. The proposed project would develop 72 townhome residences on the project site, so it would not meet the criteria for a project of statewide, regional, or areawide significance established under CEQA Guidelines Section 15206(b)(2). Furthermore, as shown in Table 7, the regional emissions that would be generated by the operational phase of the proposed project would be less than the South Coast AQMD emissions thresholds. Therefore, South Coast AQMD would not consider it a substantial source of air pollutant emissions that would have the potential to affect the attainment designations in the SoCAB. The proposed project would not affect the regional emissions inventory or conflict with strategies in the AQMP.

b) 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?

The following describes project-related impacts from short-term construction activities and long-term operation of the proposed project.

Regional Short-Term Construction Impacts

Construction activities would result in the generation of air pollutants. These emissions would primarily be (1) exhaust from off-road diesel-powered construction equipment; (2) dust generated by construction activities; (3) exhaust from on-road vehicles; and (4) off-gassing of VOCs from paints and asphalt.

Project construction would involve demolition, site preparation, grading, building construction, architectural coating, and paving. Construction is anticipated to commence December 2026 and be completed May 2027. Construction emissions were estimated using CalEEMod 2022.1 and based on the preliminary construction duration provided by

the applicant and the CalEEMod default equipment mix. Construction emissions modeling is shown in Table 5, *Unmitigated Maximum Daily Regional Construction Emissions*.

As shown in the table, maximum daily emissions of NO_x, CO, SO₂, PM₁₀, and PM_{2.5} from on-site and off-site construction-related activities would not exceed the South Coast AQMD regional significance thresholds. However, VOC emissions, primarily attributable to architectural coatings, would exceed the regional significance threshold, resulting in potentially significant impacts.

Table 5 Unmitigated Maximum Daily Regional Construction Emissions

Construction Phase	Pollutants (lb/day) ^{1,2}					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Year 2026						
Demolition	2	22	20	<1	3	1
Site Preparation	2	18	17	<1	6	3
Grading	2	26	24	<1	6	3
Building Construction	1	11	16	<1	1	1
Year 2027						
Building Construction	1	10	17	<1	1	1
Paving	1	7	10	<1	1	<1
Architectural Coating	157	1	2	<1	<1	<1
Finishing/Landscaping	<1	1	1	<1	<1	<1
Building Construction, Paving, Architectural Coating & Finishing/Landscaping Overlap	160	18	30	<1	2	1
Maximum Daily Construction Emissions						
Maximum Daily Emissions	160	26	30	<1	6	3
South Coast AQMD Regional Construction Threshold	75	100	550	150	150	55
Significant?	Yes	No	No	No	No	No

Source: CalEEMod Version 2022.1.

¹ Based on the preliminary information provided or verified by the applicant. Where specific information regarding project-related construction activities was not available, construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by South Coast AQMD of construction equipment.

² Includes implementation of fugitive dust control measures required by South Coast AQMD under Rule 403, including watering disturbed areas a minimum of two times per day, reducing speed limit to 25 miles per hour on unpaved surfaces, and street sweeping with Rule 1186-compliant sweepers.

In order to reduce VOC emissions to less than significant, the project would be required to implement Mitigation Measure AIR-1, requiring the use of ultra-low VOC coatings (10 g/L). As shown in Table 6, *Mitigated Maximum Daily Regional Construction Emissions*, implementation of Mitigation Measure AIR-1 would reduce VOC emissions to below South Coast AQMD’s 75 pounds per day threshold. Therefore, regional construction emissions would be less than significant with mitigation.

Table 6 Mitigated Maximum Daily Regional Construction Emissions

Construction Phase	Pollutants (lb/day) ^{1, 2, 3}					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Year 2026						
Demolition	2	22	20	<1	3	1
Site Preparation	2	18	17	<1	6	3
Grading	2	26	24	<1	6	3
Building Construction	1	11	16	<1	1	1
Year 2027						
Building Construction	1	10	17	<1	1	1
Paving	1	7	10	<1	1	<1
Architectural Coating	35	1	2	<1	<1	<1
Finishing/Landscaping	<1	1	1	<1	<1	<1
Building Construction, Paving, Architectural Coating & Finishing/Landscaping Overlap	37	18	30	<1	2	1
Maximum Daily Construction Emissions						
Maximum Daily Emissions	37	26	30	<1	6	3
South Coast AQMD Regional Construction Threshold	75	100	550	150	150	55
Significant?	No	No	No	No	No	No

Source: CalEEMod Version 2022.1.

¹ Based on the preliminary information provided or verified by the applicant. Where specific information regarding project-related construction activities was not available, construction assumptions were based on CalEEMod defaults, which are based on construction surveys conducted by South Coast AQMD of construction equipment.

² Includes implementation of fugitive dust control measures required by South Coast AQMD under Rule 403, including watering disturbed areas a minimum of two times per day, reducing speed limit to 25 miles per hour on unpaved surfaces, and street sweeping with Rule 1186-compliant sweepers.

³ Includes implementation of Mitigation Measure AIR-1 requiring the use of ultra-low VOC coatings (10 g/L).

Mitigation Measure AIR-1

The project construction contractor(s) and subcontractor(s) shall only use interior and exterior paints with a VOC (volatile organic compound) content maximum concentration of 10 grams per liter (g/L) for building architectural coating during construction and for future coating to reduce VOC emissions. All building and site plans shall note use of paints with a maximum VOC concentration of 10 g/L. Prior to construction, the construction contractor(s) shall ensure that all construction plans submitted to the City of Upland Building and Safety Division and Planning Division clearly show this requirement.

Long-Term Operation-Related Air Quality Impacts

Long-term air pollutant emissions associated with the proposed project include area sources (e.g., landscape fuel use, aerosols, architectural coatings, and asphalt pavement) and mobile sources (i.e., on-road vehicles). The primary source of long-term criteria air pollutant emissions generated by the proposed project would be mobile emissions from project-generated vehicle trips. As shown in Table 7, *Maximum Daily Regional Operational Phase Emissions*, air

pollutant emissions generated from operation-related activities would not exceed the South Coast AQMD regional significance threshold values.

Table 7 Maximum Daily Regional Operational Phase Emissions

Source	Maximum Daily Emissions (lbs/day)					
	VOC	NO _x	CO	SO ₂	PM ₁₀	PM _{2.5}
Mobile ¹	3	2	28	<1	6	2
Area	4	<1	4	<1	<1	<1
Energy	<1	<1	<1	<1	<1	<1
Total Maximum Daily Emissions	3	2	28	<1	6	2
South Coast AQMD Regional Threshold	55	55	550	150	150	55
Exceeds Regional Threshold?	No	No	No	No	No	No

Source: CalEEMod Version 2022.1. Highest winter or summer emissions are reported. The highest emissions for VOCs, CO, SO₂, PM₁₀, and PM_{2.5} are in summer while the highest emissions of NO_x are in winter.

Notes: Totals may not add up to 100 percent due to rounding. lbs = pounds

¹ Based on trip generation and VMT data provided by TJW Engineering (see Attachment B).

c) Expose sensitive receptors to substantial pollutant concentrations?

The proposed project could expose sensitive receptors to elevated pollutant concentrations if it causes or significantly contributes to elevated pollutant concentration levels. Unlike regional emissions, localized emissions are typically evaluated in terms of air concentration rather than mass so they can be more readily correlated to potential health effects.

Construction Phase

CONSTRUCTION LSTs

LSTs are based on the California AAQS, which are the most stringent AAQS to provide a margin of safety in the protection of public health and welfare. They are designated to protect sensitive receptors most susceptible to further respiratory distress, such as asthmatics, the elderly, very young children, people already weakened by other disease or illness, and people engaged in strenuous work or exercise. Screening-level LSTs are the amount of project-related emissions at which localized concentrations (ppm or µg/m³) could exceed the AAQS for criteria air pollutants for which the SoCAB is designated nonattainment. They are based on the size of the area disturbed, distance to the nearest sensitive receptor, and SRA. The nearest existing off-site sensitive receptors are single-family residences located 654 feet west of the project boundary along Starry Night and Wild Woods. Other nearby receptors include the Park Central Apartment Complex, approximately 1,340 feet south of the project site. The project would disturb 3.94 acres and is in SRA 34.

Table 8, *Localized Construction Emissions*, show that the maximum daily on-site construction emissions (pounds per day) for NO_x, CO, PM₁₀, and PM_{2.5} would be less than their respective South Coast AQMD screening-level LSTs. Therefore, project-related construction activities would not expose sensitive receptors to substantial criteria air pollutant concentrations.

Table 8 Localized Construction Emissions

Construction Activity	Pollutants (lbs/day) ¹			
	NO _x	CO	PM ₁₀ ²	PM _{2.5} ²
Demolition 2026	2	21	2	<1
Paving 2027	1	6	<1	<1
1.00-Acre or Less Screening-Level LST	334	5,691	103	32
Exceeds LST?	No	No	No	No
Building Construction 2026	1	10	<1	<1
Building Construction 2027	1	9	<1	<1
1.31-Acre Screening-Level LST	348	6,028	92	33
Exceeds LST?	No	No	No	No
Site Preparation 2026	2	18	5	3
1.50-Acre Screening-Level LST	356	6,235	85	34
Exceeds LST?	No	No	No	No
Building Construction, Paving, Architectural Coating & Finishing/Landscaping Overlap 2027	2	16	<1	<1
2.81-Acre Screening-Level LST	407	7,543	86	38
Exceeds LST?	No	No	No	No
Grading 2026	2	15	3	1
3.00-Acre Screening-Level LST	414	7,722	91	39
Exceeds LST?	No	No	No	No

Source: CalEEMod Version 2022.1. South Coast AQMD 2008, 2011.

Notes: In accordance with South Coast AQMD methodology, only on-site stationary sources and mobile equipment are included in the analysis. Screening-level LSTs are based on receptors within 364 feet (200 meters) for NO_x, CO, PM₁₀, and PM_{2.5} of the project site in SRA 32.

¹ Based on the preliminary information provided by the applicant. Where specific information for project-related construction activities or processes was not available, modeling was based on CalEEMod defaults. These defaults are based on construction surveys conducted by the South Coast AQMD.

² Includes fugitive dust control measures required by South Coast AQMD under Rule 403, such as watering disturbed areas a minimum of two times per day, reducing speed limit to 25 miles per hour on unpaved surfaces, and street sweeping with Rule 1186-compliant sweepers.

CONSTRUCTION HEALTH RISK

South Coast AQMD currently does not require health risk assessments for short-term emissions from construction equipment. Emissions from construction equipment primarily consist of diesel particulate matter (DPM). The Office of Environmental Health Hazard Assessment (OEHHA) adopted new guidance for the preparation of health risk assessments in March 2015 (OEHHA 2015). OEHHA has developed a cancer risk factor and noncancer chronic reference exposure level for DPM, but these factors are based on continuous exposure over a 30-year time frame. No short-term acute exposure levels have been developed for DPM. South Coast AQMD currently does not require the evaluation of long-term excess cancer risk or chronic health impacts for a short-term project. The proposed project site would be developed in approximately six years. The relatively short duration when compared to a 30-year time frame would limit exposures of on-site and off-site receptors. In addition, exhaust emissions from off-road vehicles associated with overall project-related construction activities would not exceed the screening-level LSTs. Therefore, project-related construction activities would not expose sensitive receptors to substantial TAC concentrations.

Operational Phase

LOCALIZED OPERATION-PHASE IMPACTS

Operation of the proposed project would not generate substantial quantities of emissions from on-site, stationary sources. Land uses that have the potential to generate substantial stationary sources of emissions that would require a permit from South Coast AQMD include industrial land uses, such as chemical processing and warehousing operations where substantial truck idling could occur on-site. As the proposed project would involve residential development, it does not fall within these categories of uses.

While operation of the proposed project could result in the use of standard on-site mechanical equipment such as heating, ventilation, and air conditioning units in addition to occasional use of landscaping equipment for project site maintenance, air pollutant emissions generated from these sources would be nominal (see Area and Energy source emissions in Table 6). Therefore, on-site emissions generated from operation of the proposed project would not expose off-site sensitive receptors to substantial pollutant concentrations.

CO HOTSPOTS

Areas of vehicle congestion have the potential to create pockets of CO called hot spots. These pockets have the potential to exceed the state one-hour standard of 20 parts per million (ppm) or the eight-hour standard of 9.0 ppm. Because CO is produced in greatest quantities from vehicle combustion and does not readily disperse into the atmosphere, adherence to AAQS is typically demonstrated through an analysis of localized CO concentrations, typically produced at intersections where vehicles queue for longer periods and are subject to reduced speeds. The SoCAB has been designated as attainment under both the national and California AAQS for CO. Under existing and future vehicle emission rates, a project would have to increase traffic volumes at a single intersection to more than 44,000 vehicles per hour—or 24,000 vehicles per hour where vertical and/or horizontal mixing is substantially limited—to generate a significant CO impact (Bay Area Air District 2023). As mentioned previously, the South Coast AQMD does not currently have adopted CO hotspot screening guidance, so guidance from the Bay Area Air District was utilized to determine whether the proposed project could result in potentially significant impacts related to CO hotspot generation.

Operation of the proposed project would generate up to 50 AM peak hour vehicle trips and 68 PM peak hours. When added to the existing peak hour volume at the intersection of Foothill Boulevard and Garey Avenue, the proposed project's trips would result in a maximum intersection peak hour volume of 1,718 peak hour trips, which is less than the 44,000 vehicles per hour screening criteria threshold.⁶ Therefore, development and operation of the proposed project would not result in the volume of traffic required (i.e., 24,000 to 44,000 peak hour vehicle trips) to generate a CO hotspot at intersections within the project traffic study area.

d) Create objectionable odors affecting a substantial number of people?

The threshold for odor is if a project creates an odor nuisance pursuant to South Coast AQMD Rule 402, *Nuisance*, which states:

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to

⁶ Per the California Department of Transportation's (Caltrans) 2022 Annual Average Daily Traffic Count, the intersection of Foothill Boulevard and Garey Avenue had 1,650 peak hour trips (Caltrans 2022).

business or property. The provisions of this rule shall not apply to odors emanating from agricultural operations necessary for the growing of crops or the raising of fowl or animals.

The type of facilities that are considered to have objectionable odors include wastewater treatments plants, compost facilities, landfills, solid waste transfer stations, fiberglass manufacturing facilities, paint/coating operations (e.g., auto body shops), dairy farms, petroleum refineries, asphalt batch plants, chemical manufacturing, and food manufacturing facilities. The nearest sensitive receptor to the project site are residences approximately 654 feet away to the south; however, numerous industrial and commercial uses operate adjacent to the project site to the east, west, and south.

While the proposed project would include a sewer lift station on-site that could generate odors associated with wastewater transfer, it would be equipped with an odor control unit that would scrub emissions of hydrogen sulfide through an odor control valve. Proper installation and maintenance of this standard lift station accessory would ensure that the proposed residences on-site and businesses in the vicinity are not exposed to odors associated with the lift station. Emissions from construction equipment, such as diesel exhaust and volatile organic compounds from architectural coatings and paving activities, may also generate odors. However, these odors would be low in concentration and temporary and are not expected to affect a substantial number of people.

GREENHOUSE GAS EMISSIONS

Scientists have concluded that human activities are contributing to global climate change by adding large amounts of heat-trapping gases, known as GHGs, into the atmosphere. The primary source of these GHGs is fossil fuel use. The Intergovernmental Panel on Climate Change (IPCC) has identified four major GHGs—water vapor, carbon dioxide (CO₂), methane (CH₄), and ozone (O₃)—that are the likely cause of an increase in global average temperatures observed within the twentieth and twenty-first centuries. Other GHGs identified by the IPCC that contribute to global warming to a lesser extent include nitrous oxide (N₂O), sulfur hexafluoride (SF₆), hydrofluorocarbons, perfluorocarbons, and chlorofluorocarbons.⁷

Information on manufacture of cement, steel, and other “life cycle” emissions that would occur as a result of the project are not applicable and are not included in the analysis.⁸ Black carbon emissions are not included in the GHG analysis because CARB does not include this short-lived climate pollutant in the state’s SB 32 and AB 1279 inventory but treats it separately.⁹

⁷ Water vapor (H₂O) is the strongest GHG and the most variable in its phases (vapor, cloud droplets, ice crystals). However, water vapor is not considered a pollutant, but part of the feedback loop rather than a primary cause of change.

⁸ Life cycle emissions include indirect emissions associated with materials manufacture. However, these indirect emissions involve numerous parties, each of which is responsible for GHG emissions of their particular activity. The California Resources Agency, in adopting the CEQA Guidelines Amendments on GHG emissions found that lifecycle analyses were not warranted for project-specific CEQA analysis in most situations, for a variety of reasons, including lack of control over some sources, and the possibility of double-counting emissions (CNRA 2018). Because the amount of materials consumed during the operation or construction of the proposed project is not known, the origin of the raw materials purchased is not known, and manufacturing information for those raw materials are also not known, calculation of life cycle emissions would be speculative. A life-cycle analysis is not warranted (OPR 2008).

⁹ Particulate matter emissions, which include black carbon, are analyzed in the Air Quality section. Black carbon emissions have sharply declined due to efforts to reduce on-road and off-road vehicle emissions, especially diesel particulate matter. The State's existing air quality policies will virtually eliminate black carbon emissions from on-road diesel engines within 10 years (CARB 2017).

Would the project:

a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?

Global climate change is not confined to a particular project area and is generally accepted as the consequence of global industrialization over the last 200 years. A typical project, even a very large one, does not generate enough greenhouse gas emissions on its own to influence global climate change significantly; hence, the issue of global climate change is, by definition, a cumulative environmental impact.

Implementation of the proposed project would result in the development of up to 72 new townhomes. Operation of development accommodated by the proposed project would generate 679 new weekday vehicle trips. Furthermore, operation of the proposed project would result in an increase in water demand, wastewater and solid waste generation, area sources (e.g., consumer cleaning products), refrigerants, and energy use. Project-related construction emissions, totaling 200 MTCO₂e from the two-year construction duration, were amortized over 30 years and added to the operational emissions, consistent with the recommended South Coast AQMD methodology. Energy emissions include electricity use from the townhomes and parking areas in addition to the electricity use of the motor that would power the sewer lift station. The project-related GHG emissions are shown in Table 9, *Project-Related GHG Emissions*. As shown in the table, the primary sources of GHG emissions are mobile sources. However, development and operation of the proposed project would not generate annual emissions that exceed the South Coast AQMD bright-line threshold of 3,000 MTCO₂e per year (South Coast AQMD 2010). Therefore, the proposed project would not cumulatively contribute to GHG emissions.

Table 9 Project-Related GHG Emissions

Source	Project GHG Emissions (MTCO ₂ e/Year)	Percentage of Project Total MTCO ₂ e/Year
Mobile ¹	951	74%
Area	5	0%
Energy ²	292	23%
Water	10	1%
Solid Waste	17	1%
Refrigerants	<1	<1%
30-Year Amortized Construction Emissions ³	7	1%
Total	1,282	100%
South Coast AQMD’s Bright-Line Threshold	3,000	NA
Exceeds Bright-Line Threshold	No	NA

Source: CalEEMod, Version 2022.1. Totals may not equal the sum of the values as shown due to rounding.

Notes: MTCO₂e = metric ton of carbon dioxide equivalence.

¹ Transportation emissions based on trip generation data provided by TJW Engineering (see Attachment B).

² Energy emissions include the electricity use of the townhome and parking lot uses calculated in CalEEMod (86 MTCO₂e) and the off-model calculation of the electricity use from the sewer lift station (206 MTCO₂e) (see Attachment A).

³ Total construction emissions of 200 MTCO₂e are amortized over 30 years based on recommended South Coast AQMD methodology (South Coast AQMD 2009).

b) Conflict with an applicable plan, policy, or regulation adopted for the purpose of reducing the emissions of greenhouse gases

Applicable plans adopted for the purpose of reducing GHG emissions include the CARB Scoping Plan and SCAG's Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS). A consistency analysis with these plans is presented in this section.

CARB Scoping Plan

CARB's latest Climate Change Scoping Plan (2022) outlines the State's strategies to reduce GHG emissions in accordance with the targets established under AB 32, SB 32, and AB 1279 (CARB 2022). The Scoping Plan is applicable to State agencies and is not directly applicable to cities/counties and individual projects. Nonetheless, the Scoping Plan has been the primary tool that is used to develop performance-based and efficiency-based CEQA criteria and GHG reduction targets for climate action planning efforts.

Statewide strategies to reduce GHG emissions in the 2022 Climate Change Scoping Plan include: implementing SB 100, which expands the RPS to 60 percent by 2030; expanding the Low Carbon Fuel Standards (LCFS) to 18 percent by 2030; implementing the Mobile Source Strategy to deploy zero-electric vehicle buses and trucks; implementing the Sustainable Freight Action Plan; implementing the Short-Lived Climate Pollutant Reduction Strategy, which reduces methane and hydrofluorocarbons to 40 percent below 2013 levels by 2030 and black carbon emissions to 50 percent below 2013 levels by 2030; continuing to implement SB 375; creating a post-2020 Cap-and-Trade Program; and developing an Integrated Natural and Working Lands Action Plan to secure California's land base as a net carbon sink.

Other statewide strategies to reduce GHG emissions include the low carbon fuel standards, California Appliance Energy Efficiency regulations, California Renewable Energy Portfolio standard, changes in the CAFE standards, and other early action measures as necessary to ensure the State is on target to achieve the GHG emissions reduction goals of AB 32, SB 32, and AB 1279. In addition, new developments are required to comply with the current Building Energy Efficiency Standards and California Green Building Standards Code (CALGreen). The proposed project would comply with these GHG emissions reduction measures since they are statewide strategies. The proposed project GHG emissions would be further reduced from compliance with statewide measures that have been adopted since AB 32, SB 32, and AB 1279 were adopted. Therefore, the proposed project would not obstruct or conflict with implementation of the 2022 Scoping Plan.

SCAG's Regional Transportation Plan/Sustainable Communities Strategy

SCAG adopted the 2024-2050 RTP/SCS, Connect SoCal, in April 2024. Connect SoCal is a long-term plan for the Southern California region that details the development, integrated management, and operation of transportation systems and facilities that will function as an intermodal transportation network for the SCAG metropolitan planning area (SCAG 2024). This plan outlines a forecast development pattern that demonstrates how the region can sustainably accommodate needed housing and job centers with multimodal mobility options. The overarching vision is to expand alternatives to driving, advance the transition to clean-transportation technologies, promote integrated and safe transit networks, and foster transit-oriented development in compact and mixed-use developments (SCAG 2024).

In addition, Connect SoCal is supported by a combination of transportation and land use strategies that outline how the region can achieve California's GHG-emission-reduction goals and federal Clean Air Act requirements. The projected regional development, when integrated with the proposed regional transportation network in Connect SoCal, would reduce per-capita GHG emissions related to vehicular travel and achieve the GHG reduction per capita targets for the SCAG region.

The Connect SoCal Plan does not require that local general plans, proposed projects, or zoning be consistent with the SCS, but provides incentives for consistency to governments and developers. The proposed project would accommodate residential development, which would provide townhomes on the project site. Since the proposed project is located within a Transit Priority Area and low VMT-generating area it is assumed to have a less than significant impact with respect to VMT according to the City's Guidelines (Attachment B). Therefore, the proposed project would not interfere with SCAG's ability to implement the regional strategies in Connect SoCal.

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Attachment A – Air Quality and Greenhouse Gas Modeling

CalEEMod Inputs-Buffalo Grove Townhomes Project, Construction

Name: Buffalo Grove Townhomes Project
Project Number: CEC0-01
Project Location: 1812 West Foothill Boulevard, Upland, CA
County/Air Basin: San Bernardino- South Coast
Climate Zone: 10
Land Use Setting: Suburban
Operational Year: 2027
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 32 - Northwest San Bernardino Valley

Project Site Acreage _____ 4.37
Disturbed Site Acreage _____ 3.94

	SQFT	Tons to be Hauled Offsite
Demolition		
Buffalo Inn Motel	1,800	83
Asphalt Demolition	45,000	667
Concrete Hardscape	2,000	30
TOTAL	48,800	779

Project Components	SQFT	Footprint	Acres	Number of Units/Spaces	Floors
Proposed Buildings					
Townhome Plan 1 (x15 units)	32,700	10,725	0.25	15	3
Townhome Plan 2 (x12 units)	26,904	9,780	0.22	12	3
Townhome Plan 3 (x45 units)	110,340	38,745	0.89	45	3
Sewer Lift Station	1,575	75	0.00		
Surface Work					
Non-Parking Asphalt Pavement	46,200		1.06		
Concrete Hardscape	20,500		0.47		
Landscaping	41,328		0.95		
Parking Areas	4,380		0.10		
TOTAL	283,927		3.94		

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet	Landscape Area Square Feet
Residential	Condo/Townhouse	72	Dwelling Unit	2.31	169,944	41,328
Industrial ¹	User Defined Industrial	1.58	1000 sqft	0.0017	1,575	
Parking	Other Asphalt Surfaces	46.20	1000 sqft	1.06	46,200	
Parking	Other Non-Asphalt Surfaces	20.50	1000 sqft	0.47	20,500	
Parking	Parking Lot	4.38	1000 sqft	0.10	4,380	
				3.94		

Notes

¹ sewer lift station

Hauling Quantities

Demolition Debris Hauled Offsite

Component	Amount to be Demolished	Haul Truck Capacity (Tons) ¹	Haul Distance (miles) ¹	Total Trip Ends	Duration (days)	Trip Ends Per Day
Asphalt/Pavement (Tons)	696	20	20	70	8	9
Building Tons	83	20	20	9	8	2
Total						9

Soil Haul

Construction Activity	Volume (CY)	Haul Truck Capacity (CY) ¹	Haul Distance (miles) ¹	Total Trip Ends	Trip Ends per Day	Duration (days)
Grading Import & Export	3,350	16	20	419	127	3

Notes

¹ CalEEMod default used.

Architectural Coating

Percent Painted

Interior Painted:	100%
Exterior Painted:	100%

VOC Content

Interior Residential Paint VOC content:	100	grams per liter
Exterior Residential Paint VOC content:	100	grams per liter

Structures	Land Use Square Feet	CalEEMod Factor ¹	Total Paintable Surface Area	Paintable Interior Area ²	Paintable Exterior Area ²
Residential					
Condo/Townhouse	169,944	2.7	458,849	344,137	114,712
				344,137	114,712
Non-Residential					
Industrial	1,575	2.0	3,150	2,363	788
				2,363	788
Parking					
Parking	71,080	6%	4,265	-	4,265
					4,265

Notes

¹ The program assumes the total surface for painting equals 2 times the floor square footage for non-parking garage nonresidential square footage defined by the user and 5 percent for parking garage square footage. Architectural coatings for the parking lot and the parking stalls of a parking garage is based on CalEEMod methodology applied to a surface parking lot (i.e., striping), in which 6% of surface area is painted.

² CalEEMod methodology calculates the paintable interior and exterior areas by multiplying the total paintable surface area by 75 and 25 percent, respectively, for non-parking garage nonresidential structures and 90 and 10 percent, respectively, for parking garages.

Construction Mitigation

Dust From Material Movement

Water Exposed Area (SCAQMD Rule 403)

Frequency:	2	per day
PM10:	61	% Reduction
PM25:	61	% Reduction

Demolition

Water Demolished Area (SCAQMD Rule 403)

Frequency:	2	per day
PM10:	36	% Reduction
PM25:	36	% Reduction

On-Road Fugitive Dust

Water Unpaved Roads Twice Daily (SCAQMD Rule 403)

Frequency:	2	per day
PM10:	55	% Reduction
PM25:	55	% Reduction

Unpaved Roads (SCAQMD Rule 403.2)

Vehicle Speed:	25	mph
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Sweep Unpaved Roads Once Per Month (SCAQMD Rule 1186)

Clean Paved Road	9	% PM Reduction
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Architectural Coatings

SCAQMD Rule 1113

Interior Residential Paint VOC content:	50	grams per liter
Exterior Residential Paint VOC content:	50	grams per liter

Pavement Volume to Weight Conversion

Component	Total SF of Area¹	Assumed Thickness (foot)²	Debris Volume (cu. ft)	Weight of Crushed Asphalt (lbs/cf)³	AC Mass (lbs)	AC Mass (tons)
Asphalt Demolition	45,000	0.333	15,000	89	1,333,333	666.67
Hardscape Demolition	2,000	0.333	667	89	59,259	29.63
Total	47,000					696

¹ Based on aerial image of existing project site.

² Gibbons, Jim. 1999. Pavements and Surface Materials. Nonpoint Education for Municipal Officials, Technical Paper Number 8. University of Connecticut Cooperative Extension System. https://www.uni-groupusa.org/PDF/NEMO_tech_8.pdf

³ CalRecycle. 2019. Solid Waste Cleanup Program Weights and Volumes for Project Estimates. <https://www.delmar.ca.us/DocumentCenter/View/5668/CalRecycle-Conversion-Table>

Demo Haul Trip Calculation

Source: CalEEMod User's Guide Version 2020.4, Appendix A

Conversion factors

0.046 ton/SF
1.2641662 tons/cy
20 tons
15.82070459 CY
0.791035229 CY/ton

Building	BSF Demo	Tons/SF	Tons	Haul Truck (CY) ¹	Haul Truck (Ton) ¹	Round Trips	Total Trip Ends
Building Demo	1,800	0.046	83	16	20	4	8

Notes:

¹ CalEEMod default

Construction Activities and Schedule Assumptions

* based on construction start and end date provided by the Applicant

Construction Schedule				
Construction Activities	Phase Type	Start Date	End Date	Duration
Demolition	Demolition	12/1/2026	12/29/2026	20
Site Preparation	Site Preparation	12/30/2026	1/5/2027	5
Grading	Grading	1/6/2027	1/15/2027	8
Building Construction	Building Construction	1/16/2027	12/3/2027	230
Paving	Paving	11/10/2027	12/3/2027	18
Architectural Coating	Architectural Coating	11/10/2027	12/3/2027	18
Finishing/Landscaping	Trenching	11/10/2027	12/3/2027	18

Normalization Calculations *

CalEEMod Defaults Construction Duration	
367	days of construction
1.01	years of construction
12.07	months of construction

Assumed Construction Duration	
12/1/2026	5/1/2027
151	days
4.96	months

Norm Factor: 0.41

Adjusted Construction Schedule				
Construction Activities	Phase Type	Start Date	End Date	Duration
Demolition	Demolition	12/1/2026	12/10/2026	8
Site Preparation	Site Preparation	12/11/2026	12/11/2026	2
Grading	Grading	12/12/2026	12/16/2026	3
Building Construction	Building Construction	12/17/2026	4/30/2027	97
Paving	Paving	4/22/2027	4/30/2027	7
Architectural Coating	Architectural Coating	4/22/2027	4/30/2027	7
Finishing/Landscaping	Trenching	4/22/2027	4/30/2027	7

CalEEMod Construction Off-Road Equipment Inputs

Construction Equipment Details					
Equipment	# of Equipment	hr/day	hp	load factor	total trips per day
Demolition					
Concrete/Industrial Saws	1	8	33	0.73	
Excavators	3	8	36	0.38	
Rubber Tired Dozers	2	8	367	0.4	
Worker Trips					15
Vendor Trips					0
Vendor + Water Truck Trips					6
Hauling Trips					9
Onsite Truck Trips	Acres Disturbed:	1.00			1
	Onsite Travel (mi/day)	0.41			
Notes: To account for water truck usage, excavators in this activity are assumed result in daily site disturbance equivalent to tractors.					
Site Preparation					
Rubber Tired Dozers	2	8	367	0.4	
Tractors/Loaders/Backhoes	1	8	84	0.37	
Worker Trips					8
Vendor Trips					0
Vendor + Water Truck Trips					8
Hauling Trips					0
Onsite Truck Trips	Acres Disturbed:	1.50			1
	Onsite Travel (mi/day)	0.62			
Grading					
Excavators	1	8	36	0.38	
Graders	1	8	148	0.41	
Rubber Tired Dozers	1	8	367	0.4	
Tractors/Loaders/Backhoes	3	8	84	0.37	
Worker Trips					15
Vendor Trips					0
Vendor + Water Truck Trips					16
Hauling Trips					127
Onsite Truck Trips	Acres Disturbed:	3.00			1
	Onsite Travel (mi/day)	1.24			
Building Construction					
Cranes	1	7	367	0.29	
Forklifts	3	8	82	0.2	
Generator Sets	1	8	14	0.74	
Tractors/Loaders/Backhoes	3	7	84	0.37	
Welders	1	8	46	0.45	
Worker Trips					53
Vendor Trips					8
Vendor + Water Truck Trips					16
Hauling Trips					0
Onsite Truck Trips	Acres Disturbed:	1.31			1
	Onsite Travel (mi/day)	0.54			

Paving					
Cement and Mortar Mixers	2	6	10	0.56	
Pavers	1	8	81	0.42	
Paving Equipment	2	6	89	0.36	
Rollers	2	6	36	0.38	
Tractors/Loaders/Backhoes	1	8	84	0.37	
Worker Trips					20
Vendor Trips					0
Vendor + Water Truck Trips					4
Hauling Trips					0
Onsite Truck Trips	Acres Disturbed:	0.50			
	Onsite Travel (mi/day)	0.21			
Architectural Coating					
Air Compressors	1	6	37	0.48	
Worker Trips					11
Vendor Trips					0
Hauling Trips					0
Finishing/Landscaping					
Excavator	1	8	36	0.38	
Worker Trips					3
Vendor Trips					0
Hauling Trips					0

Worker and vendor trips provided by applicant

Amount of Water (gal/ acre/ day)¹	Water Truck Capacity (gallons)²
10,000	4,000

Based on data provided in Guidance for Application for Dust Control Permit
 Maricopa County Air Quality Department. 2005, June. Guidance for Application of Dust Control Permit.
https://www.epa.gov/sites/default/files/2019-04/documents/mr_guidanceforapplicationfordustcontrolpermit.pdf

Based on standard water truck capacity:
 McLellan Industries. 2022, January (access). Water Trucks. <https://www.mcllellanindustries.com/trucks/water-trucks/>

Assumes that dozers, tractors/loaders/backhoes, and graders can disturb 0.50 acres per day and scrapers can disturb 1 acre per day.

CalEEMod Inputs- Buffalo Grove Townhomes Project, Operation

Name: Buffalo Grove Townhomes Project
Project Number: CECO-01
Project Location: 1812 West Foothill Boulevard, Upland, CA
County/Air Basin: San Bernardino- South Coast
Climate Zone: 10
Land Use Setting: Suburban
Operational Year: 2027
Utility Company: Southern California Edison
Air Basin: South Coast Air Basin
Air District: South Coast AQMD
SRA: 32 - Northwest San Bernardino Valley

Project Site Acreage 4.37
Disturbed Site Acreage 2.64

CalEEMod Land Use Inputs

Land Use Type	Land Use Subtype	Unit Amount	Size Metric	Lot Acreage	Square Feet	Landscape Area Square
						Feet
Residential	Condo/Townhouse	72.00	Dwelling Unit	2.31	169,944	41,328
Industrial ¹	User Defined Industrial	1.58	1000 sqft	0.00	1,575	
Parking	Other Asphalt Surfaces	46.20	1000 sqft	1.06	46,200	
Parking	Other Non-Asphalt Surfaces	20.50	1000 sqft	0.47	20,500	
Parking	Parking Lot	4.38	1000 sqft	0.10	4,380	
				3.94		

Note:

¹ sewer lift station

Net Trips

Land Use Type	Increase in Average Daily Trips	Weekday CalEEMod Trip Rate	Saturday CalEEMod Trip Rate	Sunday CalEEMod Trip Rate
Townhome/Condos	679	9.43	9.43	9.43

Source: TJW Engineering Inc. 2025, March 26. Upland 4.5 Trip Generation and VMT Screening, City of Upland, California Memorandum

Notes: Weekday trip rate is conservatively used to estimate Saturday and Sunday trip rates.

Fleet mix updated to reflect a 97/2/1 proportion of light duty, medium duty and heavy duty vehicles (see Fleet Mix tab).

Fireplaces

Model assumes apartments will not have wood stoves based on preliminary floor plans

	# Electric	# Without Fireplace	Hours/Day	Days/Year ¹
Apartments High-Rise	61	11	3	25

Note: Building is proposed to be all-electric so CalEEMod default for gas stoves are designated as electric instead. Default for wood stoves was allocated to "# Without Fireplace"

Architectural Coating

See construction assumptions. Reapplication rate is based on model default of 10 percent per year.

Electricity

Default CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBtu/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Condo/Townhouse	349,096.72	1,356,645.39	111,216.45	1,212,919.64	237,880.28	143,725.74
Parking Lot	3,836.88		3,836.88			

Converting Natural Gas Consumption to Electricity Consumption for All-Electric Buildings

Land Use Subtype	Title-24 Natural Gas Energy Intensity (KBTU/size/year)	Converted Title-24 Energy Intensity (kWh/size/year)*	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)	Converted Nontitle-24 Energy Intensity (kWh/size/year)*
Condo/Townhouse	1,212,919.64	355.49	143,725.74	42.12

*Assumes 3,412 BTU per kWh.

Source:

EIA. 2023. Units and calculators explained British thermal units (Btu). <https://www.eia.gov/energyexplained/units-and-calculators/british-thermal-units.php>.

Adjusted CalEEMod Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)	Total Annual Natural Gas Consumption (kBtu/year)	Title-24 Electricity Energy Intensity (kWhr/size/year)*	Title-24 Natural Gas Energy Intensity (KBTU/size/year)*	Nontitle-24 Electricity Energy Intensity (kWhr/size/year)	Nontitle-24 Natural Gas Energy Intensity (KBTU/size/year)
Condo/Townhouse	349,494.34		111,571.94		237,922.40	
Parking Lot	3,836.88		3,836.88			
TOTAL	353,331.22					

Pump Station Energy Use

Land Use Subtype	Total Annual Electricity Consumption (kWh/year)
Sewer Lift Station ¹	1,314,000

Note:

¹ The 248-DV Series Standard Duplex Pump Station requires an electric motor that operates at a maximum of 480 Volts (Source: <https://wp1.jensenprecast.com/wp-content/uploads/CSI-Short-Form-Jensen-Engineered-Pump-Station-Specs-FLOATS-ONLY-Rev.-June-2020-1.pdf>). This voltage would be able to accommodate a maximum 150 kW motor (Source: <https://www.publications.usace.army.mil/Portals/76/Users/182/86/2486/EM1110-2%20-3105.pdf>). It is therefore assumed that the pump station's motor would use a 150 kW motor 24 hours a day, 365 days a year.

Calculation of GHGs from Pump Station Electricity Use

CO ₂ ¹	CH ₄ ¹	N ₂ O ¹	CO ₂ e ¹	CO ₂ e
lbs/Mwh	lbs/MWh	lbs/MWh	lbs/MWh	MT/KWh
346.20	0.033	0.004	346.23	0.0002
CO₂e from Pump Station Electricity Use (MT/Year)				206.36

Note:

¹ Southern California Edison 2027 Forecasted Emission Factors (SCE. 2024. 2024 Sustainability Report. <https://www.edison.com/sustainability/sustainability-report>)

Water Use¹

Land Use	Indoor (gals/year)	Outdoor (gals/year)	Total
Condo/Townhouse	3,001,045	811,178	3,812,223

Notes:

¹ Water use based on CalEEMod default. Model assumes 100% aerobic treatment

Solid Waste¹

Land Use	Total Solid Waste (tons/yr)
Condo/Townhouse	53.17

Notes:

¹ Based on CalEEMod default

Southern California Edison Carbon Intensity Factors¹

	Forecasted Factors 2028	
CO ₂ :	346.20	pounds per megawatt hour
CH ₄ :	0.033	pound per megawatt hour
N ₂ O:	0.004	pound per megawatt hour

Notes:

¹ CalEEMod default values.

Changes to the CalEEMod Defaults - Fleet Mix 2025

Trips 679

Default	HHD	LDA	LDT1	LDT2	LHD1	LHD2	MCY	MDV	MH	MHD	OBUS	SBUS	UBUS	
FleetMix (Model Default)	0.9104671	48.7471342	4.16515768	24.4081959	2.74169184	0.7118823	2.23010518	14.4900292	0.27462761	1.11037856	0.0835828	0.0650948	0.061652	
FleetMix (Model Default) adjusted	0.00910467	0.48747134	0.04165158	0.24408196	0.02741692	0.00711882	0.02230105	0.14490029	0.00274628	0.01110379	0.00083583	0.00065095	0.00061652	100%
Trips	6	331	28	166	19	5	15	98	2	8	1	0	0	679
Percent		80%			6%			14%						100%
without buses/MH	0.009105	0.487471	0.041652	0.244082	0.027417	0.007119	0.022301	0.144900	0.002746	0.011104	0	0.000651	0	100%
Percent		80%			6%			14%						100%
Adjusted without buses/MH	0.009332	0.487471	0.041652	0.244082	0.028102	0.007297	0.022858	0.144900	0.002815	0.011381	0.000000	0.000667	0.000000	100%
Percent adjusted		80%			6%			14%						100%
Assumed Mix		97.0%			1.00%			2.00%						100%
	0.001566	0.593982	0.050752	0.297413	0.004716	0.001224	0.027853	0.020000	0.000472	0.001910	0.000000	0.000112	0.000000	100%
adjusted with Assumed	0.156595	59.398214	5.075230	29.741302	0.471556	0.122440	2.785254	2.000000	0.047234	0.190979	0.000000	0.011196	0.000000	
Trips	1	403	34	202	3	1	19	14	0	1	0	0	0	679
		659			6			14						

Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles than the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.

CECO-01 Custom Report

Table of Contents

1. Basic Project Information
 - 1.1. Basic Project Information
 - 1.2. Land Use Types
 - 1.3. User-Selected Emission Reduction Measures by Emissions Sector
2. Emissions Summary
 - 2.1. Construction Emissions Compared Against Thresholds
 - 2.2. Construction Emissions by Year, Unmitigated
 - 2.3. Construction Emissions by Year, Mitigated
 - 2.4. Operations Emissions Compared Against Thresholds
 - 2.5. Operations Emissions by Sector, Unmitigated
 - 2.6. Operations Emissions by Sector, Mitigated
3. Construction Emissions Details
 - 3.1. Demolition (2026) - Unmitigated
 - 3.2. Demolition (2026) - Mitigated
 - 3.3. Site Preparation (2026) - Unmitigated

3.4. Site Preparation (2026) - Mitigated

3.5. Grading (2026) - Unmitigated

3.6. Grading (2026) - Mitigated

3.7. Building Construction (2026) - Unmitigated

3.8. Building Construction (2026) - Mitigated

3.9. Building Construction (2027) - Unmitigated

3.10. Building Construction (2027) - Mitigated

3.11. Paving (2027) - Unmitigated

3.12. Paving (2027) - Mitigated

3.13. Architectural Coating (2027) - Unmitigated

3.14. Architectural Coating (2027) - Mitigated

3.15. Finishing/Landscaping (2027) - Unmitigated

3.16. Finishing/Landscaping (2027) - Mitigated

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

4.1.2. Mitigated

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

4.2.2. Electricity Emissions By Land Use - Mitigated

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

4.2.4. Natural Gas Emissions By Land Use - Mitigated

4.3. Area Emissions by Source

4.3.1. Unmitigated

4.3.2. Mitigated

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

4.4.2. Mitigated

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

4.5.2. Mitigated

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

4.6.2. Mitigated

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

4.7.2. Mitigated

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

4.8.2. Mitigated

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

4.9.2. Mitigated

5. Activity Data

5.1. Construction Schedule

5.2. Off-Road Equipment

5.2.1. Unmitigated

5.2.2. Mitigated

5.3. Construction Vehicles

5.3.1. Unmitigated

5.3.2. Mitigated

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

5.5. Architectural Coatings

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

5.6.2. Construction Earthmoving Control Strategies

5.7. Construction Paving

5.8. Construction Electricity Consumption and Emissions Factors

5.9. Operational Mobile Sources

5.9.1. Unmitigated

5.9.2. Mitigated

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

5.10.3. Landscape Equipment

5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	CECO-01
Construction Start Date	12/1/2026
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.80
Precipitation (days)	2.40
Location	1812 W Foothill Blvd, Upland, CA 91786, USA
County	San Bernardino-South Coast
City	Upland
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5227
EDFZ	10
Electric Utility	Southern California Edison
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
Condo/Townhouse	72.0	Dwelling Unit	2.31	169,944	41,328	—	238	—

User Defined Industrial	1.58	User Defined Unit	< 0.005	1,575	0.00	—	—	—
Other Asphalt Surfaces	46.2	1000sqft	1.06	0.00	0.00	—	—	—
Other Non-Asphalt Surfaces	20.5	1000sqft	0.47	0.00	0.00	—	—	—
Parking Lot	4.38	1000sqft	0.10	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

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.	160	160	18.3	30.2	0.04	0.64	1.57	2.20	0.59	0.34	0.92	—	5,808	5,808	0.22	0.16	5.07	5,868
Mit.	37.7	37.2	18.3	30.2	0.04	0.64	1.57	2.20	0.59	0.34	0.92	—	5,808	5,808	0.22	0.16	5.07	5,868
% Reduced	76%	77%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.24	4.32	39.7	36.9	0.09	1.63	7.43	9.06	1.50	3.02	4.52	—	12,266	12,266	1.02	1.49	0.51	12,736
Mit.	5.24	4.32	39.7	36.9	0.09	1.63	7.43	9.06	1.50	3.02	4.52	—	12,266	12,266	1.02	1.49	0.51	12,736
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.39	3.33	2.54	4.01	0.01	0.09	0.25	0.34	0.08	0.05	0.13	—	873	873	0.03	0.03	0.36	882
Mit.	1.05	0.98	2.54	4.01	0.01	0.09	0.25	0.34	0.08	0.05	0.13	—	873	873	0.03	0.03	0.36	882
% Reduced	69%	70%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.62	0.61	0.46	0.73	< 0.005	0.02	0.05	0.06	0.01	0.01	0.02	—	144	144	0.01	< 0.005	0.06	146
Mit.	0.19	0.18	0.46	0.73	< 0.005	0.02	0.05	0.06	0.01	0.01	0.02	—	144	144	0.01	< 0.005	0.06	146
% Reduced	69%	70%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	160	160	18.3	30.2	0.04	0.64	1.57	2.20	0.59	0.34	0.92	—	5,808	5,808	0.22	0.16	5.07	5,868
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.24	4.32	39.7	36.9	0.09	1.63	7.43	9.06	1.50	3.02	4.52	—	12,266	12,266	1.02	1.49	0.51	12,736
2027	1.50	1.24	10.1	15.9	0.03	0.34	1.02	1.37	0.32	0.22	0.54	—	3,528	3,528	0.14	0.12	0.09	3,567
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.15	0.12	1.10	1.22	< 0.005	0.04	0.15	0.19	0.04	0.05	0.08	—	321	321	0.02	0.02	0.14	327
2027	3.39	3.33	2.54	4.01	0.01	0.09	0.25	0.34	0.08	0.05	0.13	—	873	873	0.03	0.03	0.36	882
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03	0.02	0.20	0.22	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	53.1	53.1	< 0.005	< 0.005	0.02	54.2

2027	0.62	0.61	0.46	0.73	< 0.005	0.02	0.05	0.06	0.01	0.01	0.02	—	144	144	0.01	< 0.005	0.06	146
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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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	37.7	37.2	18.3	30.2	0.04	0.64	1.57	2.20	0.59	0.34	0.92	—	5,808	5,808	0.22	0.16	5.07	5,868
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	5.24	4.32	39.7	36.9	0.09	1.63	7.43	9.06	1.50	3.02	4.52	—	12,266	12,266	1.02	1.49	0.51	12,736
2027	1.50	1.24	10.1	15.9	0.03	0.34	1.02	1.37	0.32	0.22	0.54	—	3,528	3,528	0.14	0.12	0.09	3,567
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.15	0.12	1.10	1.22	< 0.005	0.04	0.15	0.19	0.04	0.05	0.08	—	321	321	0.02	0.02	0.14	327
2027	1.05	0.98	2.54	4.01	0.01	0.09	0.25	0.34	0.08	0.05	0.13	—	873	873	0.03	0.03	0.36	882
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2026	0.03	0.02	0.20	0.22	< 0.005	0.01	0.03	0.03	0.01	0.01	0.02	—	53.1	53.1	< 0.005	< 0.005	0.02	54.2
2027	0.19	0.18	0.46	0.73	< 0.005	0.02	0.05	0.06	0.01	0.01	0.02	—	144	144	0.01	< 0.005	0.06	146

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.	7.20	6.94	1.47	32.6	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	7,008	7,043	3.73	0.18	20.2	7,209

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.67	6.43	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	6,510	6,544	3.74	0.19	1.71	6,696
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	6.92	6.67	1.65	27.2	0.06	0.03	6.26	6.29	0.03	1.58	1.61	34.4	6,265	6,299	3.72	0.19	9.43	6,458
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.26	1.22	0.30	4.97	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	5.70	1,037	1,043	0.62	0.03	1.56	1,069

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	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165
Area	4.37	4.35	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	364	364	0.02	< 0.005	—	365
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517
Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	7.20	6.94	1.47	32.6	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	7,008	7,043	3.73	0.18	20.2	7,209
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663
Area	3.98	3.98	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517

Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	6.67	6.43	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	6,510	6,544	3.74	0.19	1.71	6,696
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.68	2.44	1.62	24.4	0.06	0.03	6.26	6.29	0.03	1.58	1.61	—	5,682	5,682	0.23	0.17	8.21	5,747
Area	4.24	4.23	0.03	2.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	31.8	31.8	< 0.005	< 0.005	—	32.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517
Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	6.92	6.67	1.65	27.2	0.06	0.03	6.26	6.29	0.03	1.58	1.61	34.4	6,265	6,299	3.72	0.19	9.43	6,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951
Area	0.77	0.77	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	5.27	5.27	< 0.005	< 0.005	—	5.29
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	85.3	85.3	0.01	< 0.005	—	85.6
Water	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	1.26	1.22	0.30	4.97	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	5.70	1,037	1,043	0.62	0.03	1.56	1,069

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	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165

Area	4.37	4.35	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	364	364	0.02	< 0.005	—	365
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517
Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	7.20	6.94	1.47	32.6	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	7,008	7,043	3.73	0.18	20.2	7,209
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663
Area	3.98	3.98	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517
Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	6.67	6.43	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	34.4	6,510	6,544	3.74	0.19	1.71	6,696
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.68	2.44	1.62	24.4	0.06	0.03	6.26	6.29	0.03	1.58	1.61	—	5,682	5,682	0.23	0.17	8.21	5,747
Area	4.24	4.23	0.03	2.85	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	31.8	31.8	< 0.005	< 0.005	—	32.0
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	515	515	0.03	< 0.005	—	517
Water	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Waste	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	6.92	6.67	1.65	27.2	0.06	0.03	6.26	6.29	0.03	1.58	1.61	34.4	6,265	6,299	3.72	0.19	9.43	6,458
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951
Area	0.77	0.77	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	5.27	5.27	< 0.005	< 0.005	—	5.29
Energy	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	85.3	85.3	0.01	< 0.005	—	85.6

Water	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1
Waste	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	1.26	1.22	0.30	4.97	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	5.70	1,037	1,043	0.62	0.03	1.56	1,069

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	1.36	1.36	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	3.11	3.11	< 0.005	< 0.005	< 0.005	3.29
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.4
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.02	< 0.005	0.20	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	182	182	0.01	0.03	0.01	191
Hauling	0.07	0.01	0.75	0.41	< 0.005	0.01	0.17	0.17	0.01	0.05	0.05	—	611	611	0.06	0.10	0.03	642
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	0.01	4.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.18
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.22	2.22	< 0.005	< 0.005	< 0.005	2.33

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	—	—	—	—	—	—	1.36	1.36	—	0.21	0.21	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.15	0.15	< 0.005	0.02	0.02	—	3.11	3.11	< 0.005	< 0.005	< 0.005	3.29
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.05	0.45	0.42	< 0.005	0.02	—	0.02	0.02	—	0.02	—	75.1	75.1	< 0.005	< 0.005	—	75.4
Demolition	—	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.07	0.07	< 0.005	< 0.005	< 0.005	0.07
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.08	0.08	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	12.4	12.4	< 0.005	< 0.005	—	12.5
Demolition	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.02	< 0.005	0.20	0.11	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.02	—	182	182	0.01	0.03	0.01	191
Hauling	0.07	0.01	0.75	0.41	< 0.005	0.01	0.17	0.17	0.01	0.05	0.05	—	611	611	0.06	0.10	0.03	642
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.22	4.22	< 0.005	< 0.005	0.01	4.28
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.18
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	13.4	13.4	< 0.005	< 0.005	0.01	14.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.70	0.70	< 0.005	< 0.005	< 0.005	0.71
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
Hauling	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.22	2.22	< 0.005	< 0.005	< 0.005	2.33

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	2.29	1.93	17.7	16.0	0.03	0.77	—	0.77	0.71	—	0.71	—	3,048	3,048	0.12	0.02	—	3,058
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	—	3.81	3.81	< 0.005	< 0.005	< 0.005	4.02
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.77	2.77	< 0.005	< 0.005	—	2.77
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.9	94.9	< 0.005	< 0.005	0.01	96.1
Vendor	0.02	< 0.005	0.27	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	243	243	0.02	0.04	0.02	254
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.39
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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
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	2.29	1.93	17.7	16.0	0.03	0.77	—	0.77	0.71	—	0.71	—	3,048	3,048	0.12	0.02	—	3,058

Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.23	0.23	< 0.005	0.02	0.02	—	3.81	3.81	< 0.005	< 0.005	< 0.005	4.02
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.09	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	16.7	16.7	< 0.005	< 0.005	—	16.8
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.77	2.77	< 0.005	< 0.005	—	2.77
Dust From Material Movement	—	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.03	0.03	0.41	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	94.9	94.9	< 0.005	< 0.005	0.01	96.1

Vendor	0.02	< 0.005	0.27	0.14	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	243	243	0.02	0.04	0.02	254
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	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.53	0.53	< 0.005	< 0.005	< 0.005	0.53
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	1.33	1.33	< 0.005	< 0.005	< 0.005	1.39
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	—	0.09	0.09	< 0.005	< 0.005	< 0.005	0.09
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.22	0.22	< 0.005	< 0.005	< 0.005	0.23
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. Grading (2026) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.79	2.79	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.46	0.46	< 0.005	0.05	0.05	—	5.86	5.86	< 0.005	< 0.005	< 0.005	6.18

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.14	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	24.3	24.3	< 0.005	< 0.005	—	24.4
Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.03	4.03	< 0.005	< 0.005	—	4.04
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.05	0.01	0.55	0.29	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	486	486	0.03	0.07	0.03	509
Hauling	1.05	0.12	10.6	5.83	0.06	0.11	2.35	2.47	0.11	0.64	0.76	—	8,625	8,625	0.86	1.38	0.45	9,059
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.0034	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.60

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.18
Hauling	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.9	70.9	0.01	0.01	0.06	74.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.3

3.6. Grading (2026) - Mitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.96	1.65	15.0	17.4	0.03	0.65	—	0.65	0.59	—	0.59	—	2,960	2,960	0.12	0.02	—	2,970
Dust From Material Movement	—	—	—	—	—	—	2.79	2.79	—	1.34	1.34	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.46	0.46	< 0.005	0.05	0.05	—	5.86	5.86	< 0.005	< 0.005	< 0.005	6.18
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.14	< 0.005	0.01	—	0.01	< 0.005	—	< 0.005	—	24.3	24.3	< 0.005	< 0.005	—	24.4

Dust From Material Movement	—	—	—	—	—	—	0.02	0.02	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.03	4.03	< 0.005	< 0.005	—	4.04
Dust From Material Movement	—	—	—	—	—	—	< 0.005	< 0.005	—	< 0.005	< 0.005	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.05	0.01	0.55	0.29	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	486	486	0.03	0.07	0.03	509
Hauling	1.05	0.12	10.6	5.83	0.06	0.11	2.35	2.47	0.11	0.64	0.76	—	8,625	8,625	0.86	1.38	0.45	9,059
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.58	1.58	< 0.005	< 0.005	< 0.005	1.60
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.99	3.99	< 0.005	< 0.005	< 0.005	4.18
Hauling	0.01	< 0.005	0.09	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	70.9	70.9	0.01	0.01	0.06	74.5
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.26	0.26	< 0.005	< 0.005	< 0.005	0.27

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.66	0.66	< 0.005	< 0.005	< 0.005	0.69
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	11.7	11.7	< 0.005	< 0.005	0.01	12.3

3.7. Building Construction (2026) - Unmitigated

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

Location	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	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.74
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.03	0.29	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	70.4	70.4	< 0.005	< 0.005	—	70.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7	11.7	< 0.005	< 0.005	—	11.7
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.23	2.85	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	665	665	0.01	0.03	0.06	673
Vendor	0.05	0.01	0.55	0.29	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	486	486	0.03	0.07	0.03	509
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	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.8	19.8	< 0.005	< 0.005	0.03	20.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.9
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.28	3.28	< 0.005	< 0.005	0.01	3.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (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 Equipm	1.28	1.07	9.85	13.0	0.02	0.38	—	0.38	0.35	—	0.35	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.54	3.54	< 0.005	< 0.005	< 0.005	3.74
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.04	0.03	0.29	0.38	< 0.005	0.01	—	0.01	0.01	—	0.01	—	70.4	70.4	< 0.005	< 0.005	—	70.6
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.11
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipm ent	0.01	0.01	0.05	0.07	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.7	11.7	< 0.005	< 0.005	—	11.7
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.02	0.02	< 0.005	< 0.005	< 0.005	0.02
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.21	0.23	2.85	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	665	665	0.01	0.03	0.06	673
Vendor	0.05	0.01	0.55	0.29	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	486	486	0.03	0.07	0.03	509
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	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	19.8	19.8	< 0.005	< 0.005	0.03	20.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	14.2	14.2	< 0.005	< 0.005	0.02	14.9
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	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.28	3.28	< 0.005	< 0.005	0.01	3.32
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.36	2.36	< 0.005	< 0.005	< 0.005	2.47
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2027) - Unmitigated

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

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.46	3.46	< 0.005	< 0.005	< 0.005	3.66
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.48	3.48	< 0.005	< 0.005	< 0.005	3.68
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.21	3.04	0.01	0.08	—	0.08	0.07	—	0.07	—	563	563	0.02	< 0.005	—	565

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.2	93.2	< 0.005	< 0.005	—	93.5
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.18	3.52	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	710	710	0.01	0.02	2.23	720
Vendor	0.04	0.01	0.50	0.27	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	476	476	0.03	0.07	1.14	499
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	0.23	0.20	0.21	2.65	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	651	651	0.01	0.02	0.06	659
Vendor	0.04	0.01	0.53	0.28	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	477	477	0.03	0.07	0.03	499
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	0.05	0.05	0.05	0.65	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	155	155	< 0.005	0.01	0.23	157
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112	112	0.01	0.02	0.12	117
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.02	19.4
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

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	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.46	3.46	< 0.005	< 0.005	< 0.005	3.66
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.23	1.03	9.39	12.9	0.02	0.34	—	0.34	0.31	—	0.31	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.20	0.20	< 0.005	0.02	0.02	—	3.48	3.48	< 0.005	< 0.005	< 0.005	3.68
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.29	0.24	2.21	3.04	0.01	0.08	—	0.08	0.07	—	0.07	—	563	563	0.02	< 0.005	—	565
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.05	0.05	< 0.005	< 0.005	< 0.005	—	0.81	0.81	< 0.005	< 0.005	< 0.005	0.86
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.04	0.40	0.55	< 0.005	0.01	—	0.01	0.01	—	0.01	—	93.2	93.2	< 0.005	< 0.005	—	93.5

Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	0.13	0.13	< 0.005	< 0.005	< 0.005	0.14
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.24	0.22	0.18	3.52	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	710	710	0.01	0.02	2.23	720
Vendor	0.04	0.01	0.50	0.27	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	476	476	0.03	0.07	1.14	499
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	0.23	0.20	0.21	2.65	0.00	0.00	0.69	0.69	0.00	0.16	0.16	—	651	651	0.01	0.02	0.06	659
Vendor	0.04	0.01	0.53	0.28	< 0.005	0.01	0.14	0.14	0.01	0.04	0.05	—	477	477	0.03	0.07	0.03	499
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	0.05	0.05	0.05	0.65	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	155	155	< 0.005	0.01	0.23	157
Vendor	0.01	< 0.005	0.12	0.06	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	112	112	0.01	0.02	0.12	117
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.12	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	25.7	25.7	< 0.005	< 0.005	0.04	26.0
Vendor	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	18.5	18.5	< 0.005	< 0.005	0.02	19.4
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

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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.29	8.99	0.01	0.25	—	0.25	0.23	—	0.23	—	1,379	1,379	0.06	0.01	—	1,383
Paving	0.43	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.38	4.38	< 0.005	< 0.005	—	4.39
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.34	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	271	271	< 0.005	0.01	0.85	274

Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.83	4.83	< 0.005	< 0.005	0.01	4.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.39
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	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.81
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
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)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.82	0.69	6.29	8.99	0.01	0.25	—	0.25	0.23	—	0.23	—	1,379	1,379	0.06	0.01	—	1,383
Paving	0.43	0.43	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.01	—	2.39	2.39	< 0.005	< 0.005	< 0.005	2.53
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.01	0.12	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	26.4	26.4	< 0.005	< 0.005	—	26.5
Paving	0.01	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.05	0.05	< 0.005	< 0.005	< 0.005	0.05
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.38	4.38	< 0.005	< 0.005	—	4.39
Paving	< 0.005	< 0.005	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.01	0.01	< 0.005	< 0.005	< 0.005	0.01
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.34	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	271	271	< 0.005	0.01	0.85	274
Vendor	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.03	0.04	< 0.005	0.01	0.01	—	119	119	0.01	0.02	0.29	125
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.83	4.83	< 0.005	< 0.005	0.01	4.89
Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	2.28	2.28	< 0.005	< 0.005	< 0.005	2.39
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	—	0.80	0.80	< 0.005	< 0.005	< 0.005	0.81

Vendor	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	0.38	0.38	< 0.005	< 0.005	< 0.005	0.40
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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	157	157	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Architectural Coatings	3.01	3.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.42	0.42	< 0.005	< 0.005	—	0.43
Architectural Coatings	0.55	0.55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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	0.05	0.04	0.04	0.70	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	142	142	< 0.005	< 0.005	0.45	144
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (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	0.14	0.11	0.83	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	34.5	34.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.56	2.56	< 0.005	< 0.005	—	2.57
Architectural Coatings	0.66	0.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.42	0.42	< 0.005	< 0.005	—	0.43

Architectural	0.12	0.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.04	0.70	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	142	142	< 0.005	< 0.005	0.45	144
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.53	2.53	< 0.005	< 0.005	< 0.005	2.57
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.42	0.42	< 0.005	< 0.005	< 0.005	0.42
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.15. Finishing/Landscaping (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	0.11	0.09	0.81	1.02	< 0.005	0.02	—	0.02	0.02	—	0.02	—	142	142	0.01	< 0.005	—	142
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.72	2.72	< 0.005	< 0.005	—	2.73
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	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.45	0.45	< 0.005	< 0.005	—	0.45
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.8	33.8	< 0.005	< 0.005	0.11	34.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.61

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	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	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10	
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

3.16. Finishing/Landscaping (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	0.11	0.09	0.81	1.02	< 0.005	0.02	—	0.02	0.02	—	0.02	—	142	142	0.01	< 0.005	—	142
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	2.72	2.72	< 0.005	< 0.005	—	2.73
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	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	0.45	0.45	< 0.005	< 0.005	—	0.45
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.17	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	33.8	33.8	< 0.005	< 0.005	0.11	34.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.60	0.60	< 0.005	< 0.005	< 0.005	0.61
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	< 0.005	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	0.10	0.10	< 0.005	< 0.005	< 0.005	0.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Total	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951

4.1.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.83	2.59	1.43	28.4	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	6,093	6,093	0.22	0.16	19.0	6,165	
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663	
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	2.70	2.46	1.58	23.5	0.06	0.03	6.27	6.30	0.03	1.58	1.61	—	5,606	5,606	0.23	0.17	0.49	5,663	
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951	
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.49	0.44	0.30	4.45	0.01	0.01	1.14	1.15	< 0.005	0.29	0.29	—	941	941	0.04	0.03	1.36	951

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	509	509	0.03	< 0.005	—	511
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.59	5.59	< 0.005	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.03	< 0.005	—	517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	509	509	0.03	< 0.005	—	511

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.59	5.59	< 0.005	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.03	< 0.005	—	517
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	84.3	84.3	0.01	< 0.005	—	84.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.93	0.93	< 0.005	< 0.005	—	0.93
Total	—	—	—	—	—	—	—	—	—	—	—	—	85.3	85.3	0.01	< 0.005	—	85.6

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
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	509	509	0.03	< 0.005	—	511
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.59	5.59	< 0.005	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.03	< 0.005	—	517
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	509	509	0.03	< 0.005	—	511
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	5.59	5.59	< 0.005	< 0.005	—	5.61
Total	—	—	—	—	—	—	—	—	—	—	—	—	515	515	0.03	< 0.005	—	517
Annual	—	—	—	—	—	—	—	—	A-59	—	—	—	—	—	—	—	—	—

Condo/T	—	—	—	—	—	—	—	—	—	—	—	—	84.3	84.3	0.01	< 0.005	—	84.7
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.93	0.93	< 0.005	< 0.005	—	0.93
Total	—	—	—	—	—	—	—	—	—	—	—	—	85.3	85.3	0.01	< 0.005	—	85.6

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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

Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
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
Total	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

4.3. Area Emissions by Source

4.3.1. Unmitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354

Consumer Product	3.68	3.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.39	0.37	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	—	11.2
Total	4.37	4.35	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	364	364	0.02	< 0.005	—	365
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Consumer Products	3.68	3.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3.98	3.98	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.00	4.00	< 0.005	< 0.005	—	4.01
Consumer Products	0.67	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape Equipm	0.05	0.05	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.27	1.27	< 0.005	< 0.005	—	1.27
Total	0.77	0.77	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	5.27	5.27	< 0.005	< 0.005	—	5.29

4.3.2. Mitigated

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

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Consumer Products	3.68	3.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.39	0.37	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.2	11.2	< 0.005	< 0.005	—	11.2
Total	4.37	4.35	0.04	4.16	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	364	364	0.02	< 0.005	—	365
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Consumer Products	3.68	3.68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural Coatings	0.30	0.30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	3.98	3.98	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	353	353	0.02	< 0.005	—	354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	4.00	4.00	< 0.005	< 0.005	—	4.01
Consumer Products	0.67	0.67	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.05	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.05	0.05	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	1.27	1.27	< 0.005	< 0.005	—	1.27
Total	0.77	0.77	< 0.005	0.52	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	5.27	5.27	< 0.005	< 0.005	—	5.29

4.4. Water Emissions by Land Use

4.4.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9

User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1

4.4.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Condo/T	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	5.75	36.0	41.8	0.59	0.01	—	60.9
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	0.95	5.97	6.92	0.10	< 0.005	—	10.1

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6

4.5.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	28.7	0.00	28.7	2.86	0.00	—	100
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6
User Defined Industrial	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Non-Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	—	4.74	0.00	4.74	0.47	0.00	—	16.6

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e	
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20

4.6.2. Mitigated

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

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.22	1.22
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.20	0.20

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

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
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Demolition	Demolition	12/1/2026	12/10/2026	5.00	8.00	—
Site Preparation	Site Preparation	12/10/2026	12/11/2026	5.00	2.00	—
Grading	Grading	12/12/2026	12/16/2026	5.00	3.00	—
Building Construction	Building Construction	12/17/2026	4/30/2027	5.00	97.0	—
Paving	Paving	4/22/2027	4/30/2027	5.00	7.00	—
Architectural Coating	Architectural Coating	4/22/2027	4/30/2027	5.00	7.00	—
Finishing/Landscaping	Trenching	4/22/2027	4/30/2027	5.00	7.00	—

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	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
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
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
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	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	A-78.00	8.00	46.0	0.45

Paving	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Finishing/Landscaping	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Average	1.00	8.00	33.0	0.73
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
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Site Preparation	Rubber Tired Dozers	Diesel	Average	2.00	8.00	367	0.40
Grading	Graders	Diesel	Average	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Average	1.00	8.00	367	0.40
Grading	Tractors/Loaders/Back hoes	Diesel	Average	3.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Average	1.00	8.00	36.0	0.38
Building Construction	Cranes	Diesel	Average	1.00	7.00	367	0.29
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	Tractors/Loaders/Back hoes	Diesel	Average	3.00	7.00	84.0	0.37
Building Construction	Welders	Diesel	Average	1.00	8.00	46.0	0.45

Paving	Cement and Mortar Mixers	Diesel	Average	2.00	8.00	10.0	0.56
Paving	Pavers	Diesel	Average	1.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Average	2.00	6.00	89.0	0.36
Paving	Rollers	Diesel	Average	2.00	6.00	36.0	0.38
Paving	Tractors/Loaders/Back hoes	Diesel	Average	1.00	8.00	84.0	0.37
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48
Finishing/Landscaping	Excavators	Diesel	Average	1.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	9.00	20.0	HHDT
Demolition	Onsite truck	1.00	0.41	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	8.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	0.62	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	16.0	10.2	HHDT,MHDT
Grading	Hauling	127	20.0	HHDT
Grading	Onsite truck	1.00	1.24	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	52.5	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	16.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	1.00	0.54	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	4.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	1.00	0.21	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	10.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Finishing/Landscaping	—	—	—	—
Finishing/Landscaping	Worker	2.50	18.5	LDA,LDT1,LDT2
Finishing/Landscaping	Vendor	—	10.2	HHDT,MHDT
Finishing/Landscaping	Hauling	0.00	20.0	HHDT
Finishing/Landscaping	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	6.00	10.2	HHDT,MHDT
Demolition	Hauling	9.00	20.0	HHDT
Demolition	Onsite truck	1.00	0.41	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	7.50	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	8.00	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	1.00	0.62	HHDT
Grading	—	—	—	—
Grading	Worker	15.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	16.0	10.2	HHDT,MHDT
Grading	Hauling	127	20.0	HHDT
Grading	Onsite truck	1.00	1.24	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	52.5	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	16.0	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	1.00	0.54	HHDT
Paving	—	—	—	—
Paving	Worker	20.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	4.00	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	1.00	0.21	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	10.5	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT
Finishing/Landscaping	—	—	—	—
Finishing/Landscaping	Worker	2.50	18.5	LDA,LDT1,LDT2
Finishing/Landscaping	Vendor	—	10.2	HHDT,MHDT

Finishing/Landscaping	Hauling	0.00	20.0	HHDT
Finishing/Landscaping	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%
Limit vehicle speeds on unpaved roads to 25 mph	44%	44%
Sweep paved roads once per month	9%	9%

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	344,137	114,712	2,363	788	4,265

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	779	—
Site Preparation	—	—	2.00	0.00	—
Grading	1,675	1,675	3.00	0.00	—
Paving	0.00	0.00	0.00	0.00	1.63

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction

Water Exposed Area	2	61%	61%
Water Demolished Area	2	36%	36%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Condo/Townhouse	—	0%
User Defined Industrial	0.00	0%
Other Asphalt Surfaces	1.06	100%
Other Non-Asphalt Surfaces	0.47	0%
Parking Lot	0.10	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2026	0.00	532	0.03	< 0.005
2027	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	679	679	679	247,835	8,979	8,979	8,979	3,277,443
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Condo/Townhouse	679	679	679	247,835	8,979	8,979	8,979	3,277,443
User Defined Industrial	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	61
No Fireplaces	11

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Condo/Townhouse	A-85

Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	61
No Fireplaces	11

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)
344136.6	114,712	2,363	788	4,265

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	349,494	532	0.0330	0.0040	0.00
User Defined Industrial	0.00	532	0.0330	0.0040	0.00

Other Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Parking Lot	3,837	532	0.0330	0.0040	0.00

5.11.2. Mitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Condo/Townhouse	349,494	532	0.0330	0.0040	0.00
User Defined Industrial	0.00	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Other Non-Asphalt Surfaces	0.00	532	0.0330	0.0040	0.00
Parking Lot	3,837	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	3,001,045	811,178
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	0.00
Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Condo/Townhouse	3,001,045	811,178
User Defined Industrial	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

Other Non-Asphalt Surfaces	0.00	0.00
Parking Lot	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	53.2	—
User Defined Industrial	0.00	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Condo/Townhouse	53.2	—
User Defined Industrial	0.00	—
Other Asphalt Surfaces	0.00	—
Other Non-Asphalt Surfaces	0.00	—
Parking Lot	0.00	—

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Condo/Townhouse	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0

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

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

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

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
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5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor
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5.16.2. Process Boilers

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

Equipment Type	Fuel Type
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8. User Changes to Default Data

Screen	Justification
Land Use	Adjusted to match project assumptions
Construction: Construction Phases	Adjusted to incorporate applicant-provided construction deadline
Construction: Off-Road Equipment	Adjusted to match approved construction assumptions list
Construction: Trips and VMT	Adjustments for water truck site travel
Operations: Vehicle Data	Adjusted trip rate to be consistent with project trip generation memo
Operations: Fleet Mix	Fleet mix for the project is modified to reflect a higher proportion of passenger vehicles than the regional VMT. Assumes a mix of approximately 97% passenger vehicles, 2% medium duty trucks, and 1% heavy duty trucks and buses.
Operations: Hearths	Building is proposed to be all-electric so CalEEMod default for gas stoves are designated as electric instead. Default for wood stoves was allocated to "# Without Fireplace"
Operations: Energy Use	Adjusted to account for all-electric building design

Regional Construction Emissions Worksheet:

3.1. Demolition (2026) - Unmitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite		Winter					
	Off-Road Equipment	2.29	20.70	19.00	0.03	0.84	0.78
	Demolition	0.00	0.00	0.00	0.00	1.36	0.21
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.15	0.02
	Total	2.29	20.72	19.01	0.03	2.35	1.01
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	< 0.005	0.20	0.11	< 0.005	0.05	0.02
	Hauling	0.01	0.75	0.41	< 0.005	0.17	0.05
	Total	0.07	1.02	1.34	0.00	0.42	0.12
TOTAL		2.36	21.74	20.35	0.03	2.77	1.13
Onsite		MAX					
	Off-Road Equipment	2.29	20.70	19.00	0.03	0.84	0.78
	Demolition	0.00	0.00	0.00	0.00	1.36	0.21
	Onsite truck	0.00	0.02	0.01	0.00	0.15	0.02
	Total	2.29	20.72	19.01	0.03	2.35	1.01
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.00	0.20	0.11	0.00	0.05	0.02
	Hauling	0.01	0.75	0.41	0.00	0.17	0.05
	Total	0.07	1.02	1.34	0.00	0.42	0.12
TOTAL		2	22	20	0	3	1

3.3. Site Preparation (2026) - Unmitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite		Winter					
	Off-Road Equipment	1.93	17.70	16.00	0.03	0.77	0.71
	Dust From Material Movement	0.00	0.00	0.00	0.00	5.11	2.63
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.23	0.02
	Total	1.93	17.70	16.00	0.03	5.88	3.34
Offsite							
	Worker	0.03	0.03	0.41	0.00	0.10	0.02
	Vendor	< 0.005	0.27	0.14	< 0.005	0.07	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.30	0.55	0.00	0.17	0.04
TOTAL		1.96	18.00	16.55	0.03	6.05	3.38
Onsite		MAX					
	Off-Road Equipment	1.93	17.70	16.00	0.03	0.77	0.71
	Dust From Material Movement	0.00	0.00	0.00	0.00	5.11	2.63
	Onsite truck	0.00	0.02	0.01	0.00	0.23	0.02
	Total	1.93	17.70	16.00	0.03	5.88	3.34
Offsite							
	Worker	0.03	0.03	0.41	0.00	0.10	0.02
	Vendor	0.00	0.27	0.14	0.00	0.07	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.30	0.55	0.00	0.17	0.04
TOTAL		1.96	18.00	16.55	0.03	6.05	3.38

3.5. Grading (2026) - Unmitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5 Total
Onsite		Winter					
	Off-Road Equipment	1.65	15.00	17.40	0.03	0.65	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.79	1.34
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.46	0.05
	Total	1.65	15.00	17.40	0.03	3.44	1.93
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.01	0.55	0.29	< 0.005	0.14	0.05
	Hauling	0.12	10.60	5.83	0.06	2.47	0.76
	Total	0.19	11.22	6.94	0.06	2.81	0.86
TOTAL		1.84	26.22	24.34	0.09	6.25	2.79
Onsite		MAX					
	Off-Road Equipment	1.65	15.00	17.40	0.03	0.65	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.79	1.34
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.05
	Total	1.65	15.00	17.40	0.03	3.44	1.93
Offsite							
	Hauling	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.01	0.55	0.29	0.00	0.14	0.05
	Worker	0.12	10.60	5.83	0.06	2.47	0.76
	Total	0.19	11.22	6.94	0.06	2.81	0.86
TOTAL		1.84	26.22	24.34	0.09	6.25	2.79

3.7. Building Construction (2026) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		Winter					
	Off-Road Equipment	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.07	9.87	13.01	0.02	0.58	0.37
Offsite	Worker	0.21	0.23	2.85	0.00	0.69	0.16
	Vendor	0.01	0.55	0.29	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.22	0.78	3.14	0.00	0.83	0.21
TOTAL		1.29	10.65	16.15	0.02	1.41	0.58
Onsite		MAX					
	Off-Road Equipment	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.02	0.01	0.00	0.20	0.02
	Total	1.07	9.87	13.01	0.02	0.58	0.37
Offsite	Worker	0.21	0.23	2.85	0.00	0.69	0.16
	Vendor	0.01	0.55	0.29	0.00	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.22	0.78	3.14	0.00	0.83	0.21
TOTAL		1.29	10.65	16.15	0.02	1.41	0.58

3.9. Building Construction (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		Summer					
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.22	0.18	3.52	0.00	0.69	0.16
	Vendor	0.01	0.50	0.27	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.23	0.68	3.79	0.00	0.83	0.21
TOTAL		1.26	10.09	16.70	0.02	1.37	0.54
Onsite		Winter					
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.20	0.21	2.65	0.00	0.69	0.16
	Vendor	0.01	0.53	0.28	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.21	0.74	2.93	0.00	0.83	0.21
TOTAL		1.24	10.15	15.84	0.02	1.37	0.54
Onsite		MAX					
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.02	0.01	0.00	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.22	0.21	3.52	0.00	0.69	0.16
	Vendor	0.01	0.53	0.28	0.00	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.23	0.74	3.79	0.00	0.83	0.21
TOTAL		1.26	10.15	16.70	0.02	1.37	0.54

3.11. Paving (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.69	6.29	8.99	0.01	0.25	0.23
	Paving	0.43	0.00	0.00	0.00	0.00	0.00
	Onsite truck	< 0.005	0.01	0.01	< 0.005	0.08	0.01
	Total	1.12	6.30	9.00	0.01	0.33	0.24
Offsite	Worker	0.08	0.07	1.34	0.00	0.26	0.06
	Vendor	< 0.005	0.13	0.07	< 0.005	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.08	0.20	1.41	0.00	0.30	0.07
TOTAL	1.20	6.50	10.41	0.01	0.63	0.31	
Onsite	MAX						
	Off-Road Equipment	0.69	6.29	8.99	0.01	0.25	0.23
	Paving	0.43	0.00	0.00	0.00	0.00	0.00
	Onsite truck	< 0.005	0.01	0.01	< 0.005	0.08	0.01
	Total	1.12	6.30	9.00	0.01	0.33	0.24
Offsite	Worker	0.08	0.07	1.34	0.00	0.26	0.06
	Vendor	< 0.005	0.13	0.07	< 0.005	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.08	0.20	1.41	0.00	0.30	0.07
TOTAL	1.20	6.50	10.41	0.01	0.63	0.31	

3.13. Architectural Coating (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.11	0.83	1.13	< 0.005	0.02	0.02
	Architectural Coatings	157.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	157.11	0.83	1.13	0.00	0.02	0.02
Offsite	Worker	0.04	0.04	0.70	0.00	0.14	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.70	0.00	0.14	0.03
TOTAL	157.15	0.87	1.83	0.00	0.16	0.05	
Onsite	MAX						
	Off-Road Equipment	0.11	0.83	1.13	0.00	0.02	0.02
	Architectural Coatings	157.00	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	157.11	0.83	1.13	0.00	0.02	0.02
Offsite	Worker	0.04	0.04	0.70	0.00	0.14	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.70	0.00	0.14	0.03
TOTAL	157.15	0.87	1.83	0.00	0.16	0.05	

3.15. Finishing/Landscaping (2027) - Unmitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.09	0.81	1.02	< 0.005	0.02	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.09	0.81	1.02	0.00	0.02	0.02
Offsite	Worker	0.01	0.01	0.17	0.00	0.03	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.01	0.01	0.17	0.00	0.03	0.01
TOTAL	0.10	0.82	1.19	0.00	0.05	0.03	
Onsite	MAX						
	Off-Road Equipment	0.09	0.81	1.02	0.00	0.02	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.09	0.81	1.02	0.00	0.02	0.02
Offsite	Worker	0.01	0.01	0.17	0.00	0.03	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.01	0.01	0.17	0.00	0.03	0.01
TOTAL	0.10	0.82	1.19	0.00	0.05	0.03	

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
3.1. Demolition (2026) - Unmitigated	2	22	20	0	3	1
3.3. Site Preparation (2026) - Unmitigated	2	18	17	0	6	3
3.5. Grading (2026) - Unmitigated	2	26	24	0	6	3
3.7. Building Construction (2026) - Unmitigated	1	11	16	0	1	1
3.9. Building Construction (2027) - Unmitigated	1	10	17	0	1	1
3.11. Paving (2027) - Unmitigated	1	7	10	0	1	0
3.13. Architectural Coating (2027) - Unmitigated	157	1	2	0	0	0
3.15. Finishing/Landscaping (2027) - Unmitigated	0	1	1	0	0	0
Building Construction (2027), Paving, Architectural Coating, & Finishing/Landscaping	160	18	30	0	2	1
MAX DAILY	160	26	30	0	6	3
Regional Thresholds	75	100	550	150	150	55
Exceeds Thresholds?	Yes	No	No	No	No	No

Regional Construction Emissions Worksheet- Mitigated:

3.2. Demolition (2026) - Mitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite		Winter					
	Off-Road Equipment	2.29	20.70	19.00	0.03	0.84	0.78
	Demolition	0.00	0.00	0.00	0.00	1.36	0.21
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.15	0.02
	Total	2.29	20.72	19.01	0.03	2.35	1.01
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	< 0.005	0.20	0.11	< 0.005	0.05	0.02
	Hauling	0.01	0.75	0.41	< 0.005	0.17	0.05
	Total	0.07	1.02	1.34	0.00	0.42	0.12
TOTAL		2.36	21.74	20.35	0.03	2.77	1.13
Onsite		MAX					
	Off-Road Equipment	2.29	20.70	19.00	0.03	0.84	0.78
	Demolition	0.00	0.00	0.00	0.00	1.36	0.21
	Onsite truck	0.00	0.02	0.01	0.00	0.15	0.02
	Total	2.29	20.72	19.01	0.03	2.35	1.01
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.00	0.20	0.11	0.00	0.05	0.02
	Hauling	0.01	0.75	0.41	0.00	0.17	0.05
	Total	0.07	1.02	1.34	0.00	0.42	0.12
TOTAL		2	22	20	0	3	1

3.4. Site Preparation (2026) - Mitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5Total
Onsite		Winter					
	Off-Road Equipment	1.93	17.70	16.00	0.03	0.77	0.71
	Dust From Material Movement	0.00	0.00	0.00	0.00	5.11	2.63
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.23	0.02
	Total	1.93	17.70	16.00	0.03	5.88	3.34
Offsite							
	Worker	0.03	0.03	0.41	0.00	0.10	0.02
	Vendor	< 0.005	0.27	0.14	< 0.005	0.07	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.30	0.55	0.00	0.17	0.04
TOTAL		1.96	18.00	16.55	0.03	6.05	3.38
Onsite		MAX					
	Off-Road Equipment	1.93	17.70	16.00	0.03	0.77	0.71
	Dust From Material Movement	0.00	0.00	0.00	0.00	5.11	2.63
	Onsite truck	0.00	0.02	0.01	0.00	0.23	0.02
	Total	1.93	17.70	16.00	0.03	5.88	3.34
Offsite							
	Worker	0.03	0.03	0.41	0.00	0.10	0.02
	Vendor	0.00	0.27	0.14	0.00	0.07	0.02
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.03	0.30	0.55	0.00	0.17	0.04
TOTAL		1.96	18.00	16.55	0.03	6.05	3.38

3.6. Grading (2026) - Mitigated

		ROG	NOx	CO	SO ₂	PM10 Total	PM2.5 Total
Onsite		Winter					
	Off-Road Equipment	1.65	15.00	17.40	0.03	0.65	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.79	1.34
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.46	0.05
	Total	1.65	15.00	17.40	0.03	3.44	1.93
Offsite							
	Worker	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.01	0.55	0.29	< 0.005	0.14	0.05
	Hauling	0.12	10.60	5.83	0.06	2.47	0.76
	Total	0.19	11.22	6.94	0.06	2.81	0.86
TOTAL		1.84	26.22	24.34	0.09	6.25	2.79
Onsite		MAX					
	Off-Road Equipment	1.65	15.00	17.40	0.03	0.65	0.59
	Dust From Material Movement	0.00	0.00	0.00	0.00	2.79	1.34
	Onsite truck	0.00	0.02	0.01	0.00	0.46	0.05
	Total	1.65	15.00	17.40	0.03	3.44	1.93
Offsite							
	Hauling	0.06	0.07	0.82	0.00	0.20	0.05
	Vendor	0.01	0.55	0.29	0.00	0.14	0.05
	Worker	0.12	10.60	5.83	0.06	2.47	0.76
	Total	0.19	11.22	6.94	0.06	2.81	0.86
TOTAL		1.84	26.22	24.34	0.09	6.25	2.79

3.8. Building Construction (2026) - Mitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Winter						
	Off-Road Equipment	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.07	9.87	13.01	0.02	0.58	0.37
Offsite	Worker	0.21	0.23	2.85	0.00	0.69	0.16
	Vendor	0.01	0.55	0.29	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.22	0.78	3.14	0.00	0.83	0.21
TOTAL	1.29	10.65	16.15	0.02	1.41	0.58	
Onsite	MAX						
	Off-Road Equipment	1.07	9.85	13.00	0.02	0.38	0.35
	Onsite truck	0.00	0.02	0.01	0.00	0.20	0.02
	Total	1.07	9.87	13.01	0.02	0.58	0.37
Offsite	Worker	0.21	0.23	2.85	0.00	0.69	0.16
	Vendor	0.01	0.55	0.29	0.00	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.22	0.78	3.14	0.00	0.83	0.21
TOTAL	1.29	10.65	16.15	0.02	1.41	0.58	

3.10. Building Construction (2027) - Mitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.22	0.18	3.52	0.00	0.69	0.16
	Vendor	0.01	0.50	0.27	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.23	0.68	3.79	0.00	0.83	0.21
TOTAL	1.26	10.09	16.70	0.02	1.37	0.54	
Onsite	Winter						
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	< 0.005	0.02	0.01	< 0.005	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.20	0.21	2.65	0.00	0.69	0.16
	Vendor	0.01	0.53	0.28	< 0.005	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.21	0.74	2.93	0.00	0.83	0.21
TOTAL	1.24	10.15	15.84	0.02	1.37	0.54	
Onsite	MAX						
	Off-Road Equipment	1.03	9.39	12.90	0.02	0.34	0.31
	Onsite truck	0.00	0.02	0.01	0.00	0.20	0.02
	Total	1.03	9.41	12.91	0.02	0.54	0.33
Offsite	Worker	0.22	0.21	3.52	0.00	0.69	0.16
	Vendor	0.01	0.53	0.28	0.00	0.14	0.05
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.23	0.74	3.79	0.00	0.83	0.21
TOTAL	1.26	10.15	16.70	0.02	1.37	0.54	

3.12. Paving (2027) - Mitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.69	6.29	8.99	0.01	0.25	0.23
	Paving	0.43	0.00	0.00	0.00	0.00	0.00
	Onsite truck	< 0.005	0.01	0.01	< 0.005	0.08	0.01
	Total	1.12	6.30	9.00	0.01	0.33	0.24
Offsite	Worker	0.08	0.07	1.34	0.00	0.26	0.06
	Vendor	< 0.005	0.13	0.07	< 0.005	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.08	0.20	1.41	0.00	0.30	0.07
TOTAL		1.20	6.50	10.41	0.01	0.63	0.31
Onsite	MAX						
	Off-Road Equipment	0.69	6.29	8.99	0.01	0.25	0.23
	Paving	0.43	0.00	0.00	0.00	0.00	0.00
	Onsite truck	< 0.005	0.01	0.01	< 0.005	0.08	0.01
	Total	1.12	6.30	9.00	0.01	0.33	0.24
Offsite	Worker	0.08	0.07	1.34	0.00	0.26	0.06
	Vendor	< 0.005	0.13	0.07	< 0.005	0.04	0.01
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.08	0.20	1.41	0.00	0.30	0.07
TOTAL		1.20	6.50	10.41	0.01	0.63	0.31

3.14. Architectural Coating (2027) - Mitigated

		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite	Summer						
	Off-Road Equipment	0.11	0.83	1.13	< 0.005	0.02	0.02
	Architectural Coatings	34.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	34.61	0.83	1.13	0.00	0.02	0.02
Offsite	Worker	0.04	0.04	0.70	0.00	0.14	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.70	0.00	0.14	0.03
TOTAL		34.65	0.87	1.83	0.00	0.16	0.05
Onsite	MAX						
	Off-Road Equipment	0.11	0.83	1.13	0.00	0.02	0.02
	Architectural Coatings	34.50	0.00	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	34.61	0.83	1.13	0.00	0.02	0.02
Offsite	Worker	0.04	0.04	0.70	0.00	0.14	0.03
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.04	0.04	0.70	0.00	0.14	0.03
TOTAL		34.65	0.87	1.83	0.00	0.16	0.05

3.16. Finishing/Landscaping (2027) - Mitigated							
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Onsite		Summer					
	Off-Road Equipment	0.09	0.81	1.02	< 0.005	0.02	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.09	0.81	1.02	0.00	0.02	0.02
Offsite							
	Worker	0.01	0.01	0.17	0.00	0.03	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.01	0.01	0.17	0.00	0.03	0.01
TOTAL		0.10	0.82	1.19	0.00	0.05	0.03
Onsite		MAX					
	Off-Road Equipment	0.09	0.81	1.02	0.00	0.02	0.02
	Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.09	0.81	1.02	0.00	0.02	0.02
Offsite							
	Worker	0.01	0.01	0.17	0.00	0.03	0.01
	Vendor	0.00	0.00	0.00	0.00	0.00	0.00
	Hauling	0.00	0.00	0.00	0.00	0.00	0.00
	Total	0.01	0.01	0.17	0.00	0.03	0.01
TOTAL		0.10	0.82	1.19	0.00	0.05	0.03
		ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
3.2. Demolition (2026) - Mitigated		2	22	20	0	3	1
3.4. Site Preparation (2026) - Mitigated		2	18	17	0	6	3
3.6. Grading (2026) - Mitigated		2	26	24	0	6	3
Daily, Winter (Max)		1	11	16	0	1	1
3.10. Building Construction (2027) - Mitigated		1	10	17	0	1	1
3.12. Paving (2027) - Mitigated		1	7	10	0	1	0
3.14. Architectural Coating (2027) - Mitigated		35	1	2	0	0	0
3.16. Finishing/Landscaping (2027) - Mitigated		0	1	1	0	0	0
Building Construction (2027), Paving, Architectural Coating, & Finishing/Landscaping		37	18	30	0	2	1
MAX DAILY		37	26	30	0	6	3
Regional Thresholds		75	100	550	150	150	55
Exceeds Thresholds?		No	No	No	No	No	No

Regional Construction Emissions Worksheet:

3.1. Demolition (2026) - Unmitigated

		NOx	CO	PM10 Total	PM2.5Total
Onsite					
	Off-Road Equipment	2.29	20.70	0.00	0.00
	Demolition	0.00	0.00	1.36	0.21
	Onsite truck	0.00	0.02	0.15	0.02
	Total	2.29	20.72	1.51	0.23
Onsite					
	Off-Road	2.29	20.70	0.00	0.00
	Demolition	0.00	0.00	1.36	0.21
	Onsite truck	0.00	0.02	0.15	0.02
	Total	2.29	20.72	1.51	0.23
TOTAL		2	21	2	0

3.3. Site Preparation (2026) - Unmitigated

		NOx	CO	PM10 Total	PM2.5Total
Onsite					
	Off-Road Equipment	1.93	17.70	0.00	0.00
	Dust From Material Movement	0.00	0.00	5.11	2.63
	Onsite truck	0.00	0.02	0.23	0.02
	Total	1.93	17.70	5.11	2.63
Onsite					
	Off-Road Equipment	1.93	17.70	0.00	0.00
	Dust From Material Movement	0.00	0.00	5.11	2.63
	Onsite truck	0.00	0.02	0.23	0.02
	Total	1.93	17.70	5.11	2.63
TOTAL		1.93	17.70	5.11	2.63

3.5. Grading (2026) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	1.65	15.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	2.79	1.34
	Onsite truck	0.00	0.02	0.46	0.05
	Total	1.65	15.00	2.79	1.34
Onsite					
	Off-Road Equipment	1.65	15.00	0.00	0.00
	Dust From Material Movement	0.00	0.00	2.79	1.34
	Onsite truck	0.00	0.02	0.46	0.05
	Total	1.65	15.00	2.79	1.34
TOTAL		1.65	15.00	2.79	1.34

3.7. Building Construction (2026) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	1.07	9.85	0.00	0.00
	Onsite truck	0.00	0.02	0.20	0.02
	Total	1.07	9.87	0.20	0.02
Onsite					
	Off-Road Equipment	1.07	9.85	0.00	0.00
	Onsite truck	0.00	0.02	0.20	0.02
	Total	1.07	9.87	0.20	0.02
TOTAL		1.07	9.87	0.20	0.02

3.9. Building Construction (2027) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	1.03	9.39	0.00	0.00
	Onsite truck	< 0.005	0.02	0.20	0.02
	Total	1.03	9.41	0.20	0.02
Onsite					
	Off-Road Equipment	1.03	9.39	0.00	0.00
	Onsite truck	< 0.005	0.02	0.20	0.02
	Total	1.03	9.41	0.20	0.02
Onsite					
	Off-Road Equipment	1.03	9.39	0.00	0.00
	Onsite truck	0.00	0.02	0.20	0.02
	Total	1.03	9.41	0.20	0.02
TOTAL		1.03	9.41	0.20	0.02

3.11. Paving (2027) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	0.69	6.29	0.00	0.00
	Paving	0.43	0.00	0.00	0.00
	Onsite truck	< 0.005	0.01	0.08	0.01
	Total	1.12	6.29	0.00	0.00
Onsite					
	Off-Road Equipment	0.69	6.29	0.00	0.00
	Paving	0.43	0.00	0.00	0.00
	Onsite truck	0.00	0.01	0.08	0.01
	Total	1.12	6.29	0.00	0.00
TOTAL		1.12	6.29	0.00	0.00

3.13. Architectural Coating (2027) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	0.11	0.83	0.00	0.00
	Architectural Coatings	157.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00
	Total	157.11	0.83	0.00	0.00
Onsite					
	Off-Road Equipment	0.11	0.83	0.00	0.00
	Architectural Coatings	157.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00
	Total	157.11	0.83	0.00	0.00
TOTAL		157.11	0.83	0.00	0.00

3.15. Finishing/Landscaping (2027) - Unmitigated

		NOx	CO	PM10 Total	PM2.5 Total
Onsite					
	Off-Road Equipment	0.09	0.81	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00
	Total	0.09	0.81	0.00	0.00
Onsite					
	Off-Road Equipment	0.00	0.00	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00
	Total	0.00	0.00	0.00	0.00
Onsite					
	Off-Road Equipment	0.09	0.81	0.00	0.00
	Onsite truck	0.00	0.00	0.00	0.00
	Total	0.09	0.81	0.00	0.00
TOTAL		0.09	0.81	0.00	0.00

	NOx	CO	PM10 Total	PM2.5 Total
3.1. Demolition (2026) - Unmitigated	2	21	2	0
1.00 Acre LST	334	5,691	103	32
Exceeds LST?	no	no	no	no
3.3. Site Preparation (2026) - Unmitigated	2	18	5	3
1.50 Acre LST	356	6,235	85	34
Exceeds LST?	no	no	no	no
3.5. Grading (2026) - Unmitigated	2	15	3	1
3.00 Acre LST	414	7,722	91	39
Exceeds LST?	no	no	no	no
3.7. Building Construction (2026) - Unmitigated	1	10	0	0
1.31 Acre LST	348	6,028	92	33
Exceeds LST?	no	no	no	no
3.9. Building Construction (2027) - Unmitigated	1	9	0	0
1.31 Acre LST	348	6,028	92	33
Exceeds LST?	no	no	no	no
3.11. Paving (2027) - Unmitigated	1	6	0	0
0.50 Acre LST	334	5,691	103	32
Exceeds LST?	no	no	no	no
Building Construction (2027) & Paving Overlap	2	16	0	0
2.81 Acre LST	407	7,543	86	38
Exceeds LST?	no	no	no	no

Regional Operation Emissions Worksheet

¹ CalEEMod, Version 2022.1

Proposed Project

Summer

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	2.59	1.43	28.40	0.06	6.30	1.61
Area	4.35	0.04	4.16	< 0.005	< 0.005	< 0.005
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.94	1.47	32.56	0.06	6.30	1.61

Winter

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	2.46	1.58	23.50	0.06	6.30	1.61
Area	3.98	0.00	0.00	0.00	0.00	0.00
Energy	0.00	0.00	0.00	0.00	0.00	0.00
Total	6.44	1.58	23.50	0.06	6.30	1.61

Max Daily

	ROG	NOx	CO	SO2	PM10 Total	PM2.5 Total
Mobile	3	2	28	0	6	2
Area	4	0	4	0	0	0
Energy	0.0	0.0	0.0	0.0	0.0	0.0
Total	7	2	33	0	6	2

Regional Thresholds (lb/day)

Regional Thresholds (lb/day)	55	55	550	150	150	55
Exceeds Thresholds?	No	No	No	No	No	No

GHG Emissions Inventory

Proposed Project Buildout

Construction¹

	MTCO ₂ e
2026	54
2027	146
Total Construction	200
30-Year Amortization²	7

Notes

¹ CalEEMod, Version 2022.1

² Total construction emissions are amortized over 30 years per SCAQMD methodology; SCAQMD. 2009, November 19. Greenhouse Gases (GHG) CEQA Significance Thresholds Working Group Meeting 14. [http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-\(ghg\)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2](http://www.aqmd.gov/docs/default-source/ceqa/handbook/greenhouse-gases-(ghg)-ceqa-significance-thresholds/year-2008-2009/ghg-meeting-14/ghg-meeting-14-main-presentation.pdf?sfvrsn=2).

Operations¹

	MTCO ₂ e/Year ²	
	Operations	%
Mobile	951	74%
Area	5	0%
Energy	292	23%
Water	10	1%
Solid Waste	17	1%
Refrigerants	0	0%
30-Year Construction Amortization	7	1%
	1,282	100%
South Coast AQMD Bright-Line Screening Threshold	3,000	
Exceed Threshold?	No	

Notes

¹ CalEEMod, Version 2022.1

² MTCO₂e=metric tons of carbon dioxide equivalent.

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.00	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
199		Tractors	0.5	0.0625		0
NOx	333	Tractors	0.5	0.0625		0
CO	5,659	Graders	0.5	0.0625		0
PM10	102.43	Dozers	0.5	0.0625	8	2
PM2.5	31.81	Scrapers	1	0.125		0
					Acres	1.00

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Northwest San Bernardino Valley

	1.00 Acres	25	50	100	200	500
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.50	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
	199	Tractors	0.5	0.0625		0
NOx	355	Tractors	0.5	0.0625	8	1
CO	6,202	Graders	0.5	0.0625		0
PM10	84.06	Dozers	0.5	0.0625	8	2
PM2.5	33.80	Scrapers	1	0.125		
					Acres	1.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
CO	1	144	174	237	356	668
	2	863	1328	2423	5691	23065
PM10	1	1232	1877	3218	6778	24768
	2	1048	1603	2821	6235	23917
PM2.5	1	5	14	44	103	280
	2	6	19	34	66	160
		6	17	39	85	220
		4	6	12	32	141
		5	8	14	36	150
		5	7	13	34	146

Northwest San Bernardino Valley

	1.50 Acres	25	50	100	200	500
NOx	144	174	237	356	668	
CO	1048	1603	2821	6235	23917	
PM10	6	17	39	85	220	
PM2.5	5	7	13	34	146	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	3.00	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day	Daily hours	Equipment Used	Acres
199		Tractors	0.5	0.0625		0
NOx	413	Tractors	0.5	0.0625	8	3
CO	7,685	Graders	0.5	0.0625	8	1
PM10	90.27	Dozers	0.5	0.0625	8	1
PM2.5	38.78	Scrapers	1	0.125		
					Acres	3.00

	Acres	25	50	100	200	500
NOx	3	203	234	301	414	715
	3	203	234	301	414	715
CO	3	1552	2244	3875	7722	26315
	3	1552	2244	3875	7722	26315
PM10	3	9	29	49	91	214
	3	9	29	49	91	214
PM2.5	3	6	9	16	39	157
	3	6	9	16	39	157
		6	9	16	39	157

Northwest San Bernardino Valley

	3.00 Acres	25	50	100	200	500
NOx	203	234	301	414	715	
CO	1552	2244	3875	7722	26315	
PM10	9	29	49	91	214	
PM2.5	6	9	16	39	157	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	3	32	3
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	1.31	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
199		Tractors	0.5	0.0625	7	3	1.3125
NOx	346	Tractors	0.5	0.0625			0
CO	5,996	Graders	0.5	0.0625			0
PM10	91.04	Dozers	0.5	0.0625			0
PM2.5	33.04	Scrapers	1	0.125			
						Acres	1.31

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	2	170	200	263	378	684
CO	1	134	164	227	348	662
	2	863	1328	2423	5691	23065
PM10	1	1232	1877	3218	6778	24768
	2	977	1498	2669	6028	23593
PM2.5	1	5	14	44	103	280
	2	6	19	34	66	160
		5	16	41	92	243
		4	6	12	32	141
		5	8	14	36	150
		4	7	13	33	144

Northwest San Bernardino Valley

	1.31 Acres	25	50	100	200	500
NOx	134	164	227	348	662	662
CO	977	1498	2669	6028	23593	23593
PM10	5	16	41	92	243	243
PM2.5	4	7	13	33	144	144

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	2
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	0.50	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	199	Tractors	0.5	0.0625	8	1	0.5
NOx	333	Tractors	0.5	0.0625			0
CO	5,659	Graders	0.5	0.0625			0
PM10	102.43	Dozers	0.5	0.0625			0
PM2.5	31.81	Scrapers	1	0.125			0
						Acres	0.50

	Acres	25	50	100	200	500
NOx	1	118	148	211	334	652
	1	118	148	211	334	652
CO	1	863	1328	2423	5691	23065
	1	863	1328	2423	5691	23065
PM10	1	5	14	44	103	280
	1	5	14	44	103	280
PM2.5	1	4	6	12	32	141
	1	4	6	12	32	141
		4	6	12	32	141

Northwest San Bernardino Valley

	0.50 Acres	25	50	100	200	500
NOx	118	148	211	334	652	
CO	863	1328	2423	5691	23065	
PM10	5	14	44	103	280	
PM2.5	4	6	12	32	141	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	1	32	1
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Construction Localized Significance Thresholds: ≤1 Acre

SRA No.	Acres	NOx & CO		PM10 & PM2.5		Construction / Project Site Size (Acres)
		Source Receptor Distance (meters)	Source Receptor Distance (Feet)	Source Receptor Distance (meters)	Source Receptor Distance (Feet)	
32	2.81	199	653	199	653	4.37

Source Receptor Distance (meters)	Northwest San Bernardino Valley	Equipment	Acres/8-hr Day		Daily hours	Equipment Used	Acres
	199	Tractors	0.5	0.0625	7	3	1.3125
NOx	406	Tractors	0.5	0.0625	8	1	0.5
CO	7,506	Graders	0.5	0.0625			0
PM10	85.60	Dozers	0.5	0.0625			0
PM2.5	38.21	Scrapers	1	0.125			1
						Acres	2.81

	Acres	25	50	100	200	500
NOx	2	170	200	263	378	684
	3	203	234	301	414	715
CO	2	197	228	294	407	709
	3	1232	1877	3218	6778	24768
PM10	2	1552	2244	3875	7722	26315
	3	1491	2174	3750	7543	26021
PM2.5	2	6	19	34	66	160
	3	9	29	49	91	214
		9	27	46	86	204
		5	8	14	36	150
		6	9	16	39	157
		6	9	16	38	155

Northwest San Bernardino Valley

	2.81 Acres	25	50	100	200	500
NOx	197	228	294	407	709	
CO	1491	2174	3750	7543	26021	
PM10	9	27	46	86	204	
PM2.5	6	9	16	38	155	

Acre Below		Acre Above	
SRA No.	Acres	SRA No.	Acres
32	2	32	3
Distance Increment Below			
100			
Distance Increment Above			
200			

Updated: 10/21/2009 - Table C-1. 2006 – 2008

Attachment B – Traffic Data

March 26, 2025



TJW ENGINEERING, INC.
TRAFFIC ENGINEERING &
TRANSPORTATION PLANNING
CONSULTANTS

Justin Brewer
CENTURY COMMUNITIES
4695 MacArthur Court, Suite 300
Newport Beach, CA 92660

SUBJECT: Upland 4.5 Trip Generation and VMT Screening, City of Upland, California

Dear Mr. Brewer,

TJW Engineering, Inc. (TJW) is pleased to submit this Trip Generation Analysis and Vehicle Miles Traveled (VMT) Screening for the proposed project located at 1814 West Foothill Boulevard in the City of Upland, California. The proposed project is for the construction of 72 single-family detached residential dwelling units. The purpose of this memorandum is to summarize the project Trip Generation Analysis and VMT Screening.

[Proposed Project](#)

The site for the proposed project is located at 1814 West Foothill Boulevard in the City of Upland, California. The proposed project is for the construction of 72 single-family detached residential dwelling units. A site plan is attached for reference.

Site access will be provided via one (1) gated full access driveway on West Foothill Boulevard (SR-66). A second driveway also on West Foothill Boulevard will be for emergency vehicles only.

[Trip Generation Analysis](#)

The trip generation analysis for the proposed project was developed based on the *City of Upland Traffic Impact Analysis Guidelines (City Guidelines)* (July 2020). The *City Guidelines* indicate that a level of service (LOS) analysis is required when either AM or PM peak hour trip generation from the proposed project is expected to exceed 100 or more vehicle trips or when the project will add 51 AM or PM peak hour trips to any intersection.

Per the *City Guidelines*, trip generation rates are to be obtained from the *Institute of Transportation Engineers Trip Generation Manual (ITE Manual)* (11th Edition, 2021). Trip generation volumes are based on the land uses of the proposed new buildings. The proposed project fits the ITE Manual description of Single-Family Detached Residential. As shown in **Table 1** below, based on the ITE Manual rates for Single-Family Detached Residential, the proposed project is expected to generate 50 AM peak hour trips, 68 PM peak hour trips, and a total of 679 daily trips.

Table 1
 Project Trip Generation

Proposed Land Use ¹	ITE Code	Qty	Unit ²	Daily		AM Peak Hour			PM Peak Hour						
				Rate	Volume	Rate	In:Out Split	Volume		Rate	In:Out Split	Volume			
								In	Out			Total	In	Out	Total
Single-Family Detached Housing	210	72	DU	9.43	679	0.7	26:74	13	37	50	0.94	63:37	43	25	68

1: Trip generation rates are from the ITE Trip Generation Manual (11th Edition, 2021).
 2: DU = Dwelling Units.

The proposed project does not meet the *City Guidelines* criteria requiring an LOS analysis as:

- 1) The project will generate less than 100 vehicle trips during either AM or PM peak hour.
- 2) There are less than 51 trips during the AM peak hour and, therefore, no more than 51 trips added to any intersection.
- 3) Project generated trips are expected to be distributed relatively evenly between the easterly and westerly legs of West Foothill Boulevard on either side of the project driveway. Thus, the PM peak hour trips in either east or west direction will be less than 51 trips each and, therefore, not contribute more than 51 trips to any intersection.

Vehicle Miles Traveled (VMT) Screening

Senate Bill (SB) 743 was adopted in 2013 requiring the Governor’s Office of Planning and Research (OPR) to identify new metrics for identifying and mitigating transportation impacts within the California Environmental Quality Act (CEQA). For land use projects, OPR has identified Vehicle Miles Traveled (VMT) as the new metric for transportation analysis under CEQA. The regulatory changes to the CEQA guidelines that implement SB 743 were approved on December 28th, 2018, with an implementation date of July 1st, 2020, as the new metric.

The *City Guidelines* provide screening criteria and requirements for VMT assessment of land use projects. Step 1: Transit Priority Area (TPA) Screening indicates that projects located within a TPA may be presumed to have a less than significant impact on VMT. Step 2: Low VMT Area Screening indicates that residential projects located within a low VMT-generating area may be presumed to have a less than significant impact. The San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool was utilized to determine if the proposed project meets the screening criteria. The Screening Tool found that the proposed project is located within a TPA and within a low-VMT area. The Screening Tool results are attached for reference.

Summary

This memorandum provides an overview of the trip generation analysis for the proposed project. Based on the *City Guidelines*, the proposed project does not meet the threshold requiring an LOS analysis as it will generate less than 100 vehicle trips during either AM or PM peak hour and distribute less than 51 vehicle

trips at any intersection. In addition, the project is located within a low-VMT area and a TPA and may be presumed to have a less than significant on VMT.

Please contact us at (949) 878-3509 if you have any questions regarding this analysis.

Sincerely,



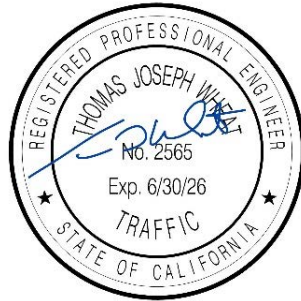
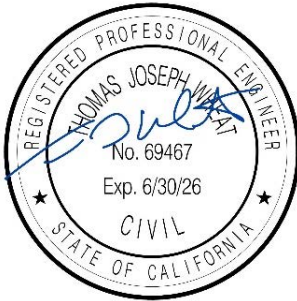
Thomas Wheat, PE, TE
President
Registered Civil Engineer #69467
Registered Traffic Engineer #2565

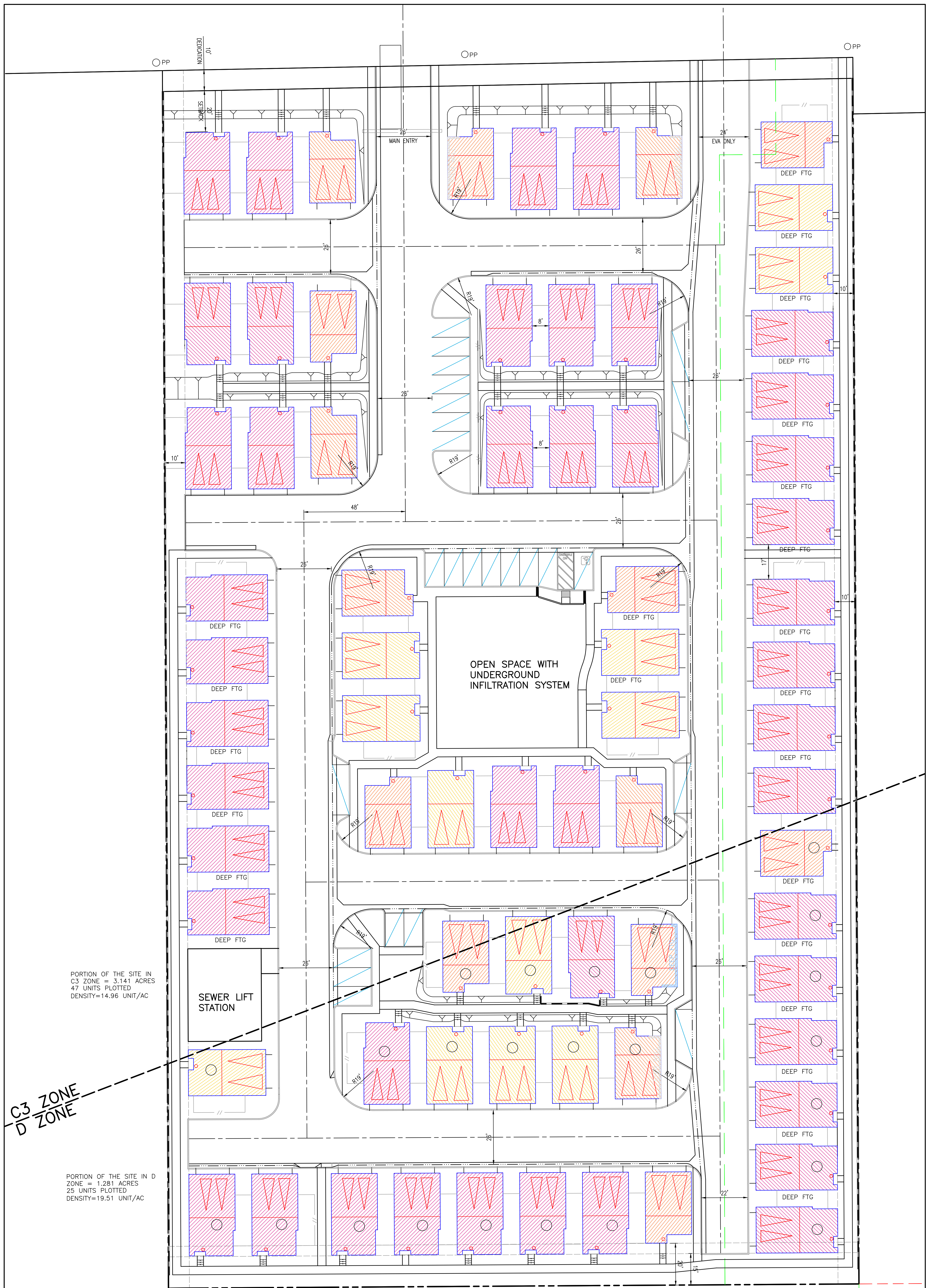


David Chew, PTP
Transportation Planner



Travis Yokota
Assistant Transportation Planner

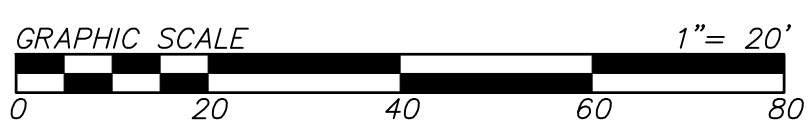




PORTION OF THE SITE IN
C3 ZONE = 3.141 ACRES
47 UNITS PLOTTED
DENSITY=14.96 UNIT/AC

C3 ZONE
D ZONE

PORTION OF THE SITE IN D
ZONE = 1.281 ACRES
25 UNITS PLOTTED
DENSITY=19.51 UNIT/AC



FORMA ENGINEERING INC.

400 San Fernando Mission Boulevard, Suite 200
San Fernando, California 91340
Phone: (818) 832-1710 • Fax: (818) 832-1740

PREPARED UNDER THE SUPERVISION OF:

ARET BINATLI, P.E. R.C.E. 64448 DATE

Drawing Title:
**UPLAND 4.5
SITE STUDY #8
72 UNITS
25 PARKING STALLS**

Prepared for:
CENTURY COMMUNITIES

Work Order
24218
Date:
3/25/2025
Scale:
1" = 20'
Designed:
AB
Drawn:
AB
Checked:
--
Sheet 1 of
1 Sheets

Drawing Name: UPLAND 4.5 SITE STUDY #8.dwg
User: Operator
Date: Mar 25, 2025 12:20pm PT 4/4

Find address or place

Map Layers

- Project Area VMT
- Screening Results
- Low VMT Generating TAZs
- Parcels
- Jurisdiction Boundaries
- TAZ
- Transit Priority Area

Complete #1 - 4, Then Click 'Run'

Input	Output
Project Area VMT	The result is drawn on the map. ... X
Screening Results	The result is drawn on the map. ... X
Low VMT Generating TAZs	The result is drawn on the map. ... X

(3 of 3)

Completely within a TPA?	Yes (Pass)
Within a low VMT generating TAZ?	Yes (Pass)
Note	Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.

[Zoom to](#) ...

Project Area VMT | Screening Results | Low VMT Generating TAZs | Parcels | San Bernardino County Line | Jurisdiction Boundaries | Transit Priority Area

Options Filter by map extent Zoom to Clear selection Refresh

OBJECTID	Assessor Parcel Number (APN)	Traffic Analysis Zone (TAZ)	Community Region	Inside a Transit Priority Area (TPA)	TAZ VMT	Jurisdiction VMT	% Difference	VMT Metric	Threshold	Community Regions have different thresholds (1=Yes, 0=No)	Note	Shape_Length	Shape_Area
1	100706123	53,622,201.00	Upland	Yes	9.40	13.20	-29.16%	PA VMT Per Population	11.20	0	Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.	480.13	5,008.16
2	100706108	53,622,201.00	Upland	Yes	9.40	13.20	-29.16%	PA VMT Per Population	11.20	0	Screening results are based on location of parcel centroids. If results are desired considering the full parcel, please refer to the associated map layers to visually review parcel and TAZ boundary relationship.	646.18	21,252.96

