

# ***Ldn Consulting, Inc.***

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## **RE: Oakcrest Specific Plan Development Energy Usage Letter – San Marcos CA**

This analysis evaluates both construction and operational energy efficiency as it relates to non-renewable fuel sources including Electrical, Diesel and Gasoline for the proposed Oakcrest Specific Plan Development. This effort was prepared according to requirements established within Public Resource Code (PRC) Section 21100(b)(3) and California Environmental Quality Act (CEQA) Guidelines Section 15126.4. The intent is to adequately address the following CEQA questions:

*Would the project:*

- 1. Result in a potentially significant environmental impact due to wasteful, inefficient, or unnecessary consumption of energy resources, during project construction or operation?*
- 2. Conflict with or obstruct a state or local plan for renewable energy or energy efficiency?*

### ***Project Description***

The project proposes to construct 257 single-family detached residential units, 6.22 acres of public park and preserved open space on approximately 137 gross acres. The project applicant is proposing a Specific Plan (SP25-0004), General Plan (GP) Amendment (GPA25-0005), a Rezone (R25-0004), Tentative Subdivision Map (TM24-0006), two Site Development Plans (SDP-0002 and SDP-0003) and a Conditional Use Permit (CUP25-0001). The first full year of operations is expected in 2030.

The 137-acre project site (Assessor Parcel Numbers (APNs) 218-110-02-00, 218-110-03-00, 218-330-05-00, 218-330-08-00, 218-330-09-00, 218-330-13-00, 218-330-26-00, 218-330-27-00, and 218-330-28-00) is located north of State Route 78 (SR-78), on the west side of North Twin Oaks Valley Road, north of Legacy Drive, and south of Deerbrook Drive in the City of San Marcos. The project site has a GP designation of RR (Rural Residential) and AG (Agriculture/Residential). Per the Land Use and Community Design Element of the City's GP, Rural Residential is identified for single-family residences with a density of up to 2 dwelling units/acre (du/ac) and limited agricultural uses such as flower and vegetable gardens, fruit trees

and horticultural stock. Under the Agriculture/Residential designation, agricultural uses are the primary use, and could include greenhouses, wholesale nurseries, and agricultural crops. Raising poultry, cattle, birds, small animals, horses, and bovine animals is also permitted under the Agriculture/Residential designation. Agricultural tourism activities may also be allowed. Residential development is an allowable use with the Agriculture/Residential designation with up to 1.0 du/ac based on location and slope (City of San Marcos 2012).

The project site is also noted with an "S" designator in the City's GP. The "S" designator indicates the project site could be the location of a future school. In 2021, SMUSD considered purchase of the project site for the construction of a new high school. After further site review, SMUSD decided to drop the site from consideration as a school site in late 2021 (DTSC 2025). However, the "S" designator is still indicated for the project site in the City's GP and would allow for the development of a school site.

The project site also has a "P" designator in the GP. The "P" designator indicates the project site could be the location of a future park. The City of San Marcos Parks Master Plan Update indicates a potential future park of up to 26.45 acres in the Twin Oaks Valley neighborhood (San Marcos 2018). Per the 1990 Parks Master Plan, as referenced in the 2018 Parks Master Plan Update, amenities for a future Twin Oaks Valley Neighborhood Park could include a large overlay field, softball field, tennis courts, basketball courts, playground and tot lot, picnic and barbeque facilities and other amenities as determined at the time of planning and development.

### ***Site Specific General Plan Buildout Scenario***

A possible development scenario under this alternative would include a 16-acre public park (8 acres of playing fields and 8 acres of public park), a 56-acre high school with up to 2,585 students, 89 single family residential units and 52 acres of biological open space. The overall footprint of development would likely be similar to the proposed Project, in that the development would be focused outside of the high-quality habitat, steeper elevations and outside of the ROZ buffer. The high school would be two stories and have playing fields. The single-family residences would be a motor court clustered product that would be two stories.

According to San Diego Association of Governments (SANDAG) trip generation rates, a high school generates approximately 60 average daily trips (ADT) per acre (SANDAG, 2002). Based on the 56-acre site, this equates to approximately 3,360 ADT. Because CalEEMod requires school-related trips to be entered by the number of students, the 3,360 ADT value was converted using SANDAG's factor of 1.3 ADT per student (SANDAG, 2002), resulting in approximately 2,585 students for modeling purposes. It should be noted that CalEEMod uses 180 days for schools with the exception of mobile emissions. High school mobile source emissions were adjusted to reflect 180 days of operation per year, rather than 365 days, to account for the academic calendar. The trip generation for the overall GP Buildout scenario is

expected to be 4,864 ADT while school is in session for 180 days and 1,508 ADT when school is not in session.

Demolition of the existing residences, grading, blasting and rock crushing as well as fire fuel modification would be required for this alternative.

### ***Construction***

Energy usage for construction equipment is best estimated using total horsepower hours and an assumed thermal efficiency of 30%. The most common measure of the energy efficiency of a tractor is referred to here as “specific volumetric fuel consumption” (SVFC), which is given in units of gallons per horsepower-hour (gal/hp-h). SVFC for diesel engines typically ranges from 0.0476 to 0.1110 gal/hp-h. Inverting these numbers yields a range of between 12-21 hp-h/gal. Over the last 30 years, fuel efficiency at maximum power has increased from roughly 14.5 to 16.5 hp-h/gal (VirginiaTech, 2010).

Project construction dates were estimated using CalEEMod and follow assumptions identified in both the project Air Quality and Greenhouse Gas (GHG) analysis. Based on this, an estimated construction kickoff starting in 2027 and completing the project roughly three years later. Based on the equipment, quantity, work time, Horsepower (HP), the project would require a total of 344,264 hp-h (See Table 1 on the following page). Based on this, the project would consume roughly 20,864 gallons of diesel for construction. It should be noted that, the same equipment list is assumed for the GP buildout scenario. Finally, fuel consumption would go up if diesel construction equipment is poorly maintained. Based on this, the project shall properly maintain all equipment per manufacturer’s recommendations.

Construction energy from workers, vendors, and haulage are based on the estimated vehicle miles traveled (VMT) for the total construction duration which is 1,107,326 miles for the project which is calculated from the CalEEMod output file provided in **Attachment A** to this report. Also, CalEEMod estimates that vehicular trips would be slightly lower during construction for the proposed Project when compared to the GP Buildout scenario which is estimated to be 1,557,564 miles which is provided as **Attachment B** to this report. In California, the average fuel economy for on-road vehicles is 24.1 miles per gal or 0.0415 gal/mile (CARB, 2022). Based on this, the vehicular trips would consume roughly 45,954 gallons during construction for the proposed Project. The GP Buildout scenario would consume 64,639 gallons of fuel.

On-road construction-related vehicles in California are subject to improving fuel efficiency standards and stringent emission regulations under both state and federal law. Construction equipment used for the Project would be typical for similar development and maintained per manufacturer specifications to ensure proper operation. It is expected that the proposed Project would involve fewer vehicle trips than the GP Buildout scenario, this decrease is primarily

attributable to material deliveries and worker trip assumptions since the proposed Project would be slightly smaller in terms of construction expectations.

**Table 1: Proposed Construction Phase and Duration**

Equipment Identification	Const. Days	Number per Day	Hours Per Day	Hp	Load Factor	HP Hours
<b>Demolition</b>	20					
Concrete/Industrial Saws		1	8	33	0.73	3,854.40
Excavators		3	8	36	0.38	6,566.40
Rubber Tired Dozers		2	8	367	0.4	46,976.00
<b>Site Preparation</b>	40					
Rubber Tired Dozers		3	8	367	0.4	70,464.00
Tractors/Loaders/Back hoes		4	8	84	0.37	19,891.20
<b>Grading</b>	180					
Excavators		2	8	36	0.38	4,377.60
Graders		1	8	148	0.41	9,708.80
Rubber Tired Dozers		1	8	367	0.4	23,488.00
Scrapers		2	8	423	0.48	64,972.80
Tractors/Loaders/Back hoes		2	8	84	0.37	9,945.60
Bore/Drill Rigs		1	8	83	0.5	6,640.00
Crushing/Processing Equipment		1	8	310	0.5	24,800.00
<b>Building Construction</b>	542					
Cranes		1	7	367	0.29	14,900.20
Forklifts		3	8	82	0.2	7,872.00
Generator Sets		1	8	14	0.74	1,657.60
Tractors/Loaders/Back hoes		3	7	84	0.37	13,053.60
Welders (Electric)		1	8	N/A	N/A	N/A
<b>Paving</b>	43					
Pavers		2	8	81	0.42	10,886.40
Paving Equipment		2	8	89	0.36	10,252.80
Rollers		2	8	36	0.38	4,377.60
<b>Architectural Coating</b>	109					
Air Compressors (Electric)		1	6	N/A	N/A	N/A
Total Horsepower Hours						344,264.20
Total Diesel Fuel (Gal) @ 16.5 hp-h/gal						20,864.50
This equipment list is based upon equipment inventory and estimates within CalEEMod 2022.1 Welders and Air Compressors will be powered by onsite electricity and are negligible.						

Although CEQA does not require a quantitative comparison to a GP Buildout for energy resources, this analysis references the GP Buildout scenario to provide context for the overall scale which would otherwise be allowed by right and without any CEQA analysis. Because construction fuel use is directly proportional to activity levels and trip generation, comparing the two scenarios helps illustrate that the proposed Project represents a smaller construction effort and shows that the total energy demand is less the project as it relates to energy use would not be wasteful or inefficient.

Based on this comparative analysis, the overall construction activities would be reduced since the proposed Project is smaller and less intense than the GP buildout scenario. Given this, the project would not have a significant impact on energy resources.

In addition to being smaller in scale, the proposed Project would comply with all applicable state and federal fuel efficiency and equipment maintenance requirements. On-road vehicle fuel consumption is regulated by state and federal standards, including increasing fuel efficiency requirements, and construction equipment will be maintained in accordance with manufacturers' specifications. Furthermore, the overall increase in construction related fuel usage is temporary and limited to the construction phase. Because the Project is both smaller in scale and subject to existing efficiency standards, the Project would not result in *wasteful, inefficient, or unnecessary use of energy resources during project construction*. Therefore, a less than significant energy impact would be expected during the construction activities of the project.

## ***Operations***

### ***Energy – Utility Demand***

The State of California has implemented a number of energy reducing policies largely geared to reducing Greenhouse gases (GHGs). The most notable are Assembly Bill (AB) 32, Senate Bill (SB) 32, and Executive Order (EO) S-3-05. In addition, the state has regularly implemented scoping plan updates which are geared to reduce GHG emissions by reducing energy consumption, increasing energy efficiency and increasing the usage of renewable sources.

The California Energy Commission (CEC) is the State agency responsible for adopting and enforcing California's Building Energy Efficiency Standards including Title 24, Part 6 of the California Code of Regulations (CEC, 2025). These standards are updated on a three-year cycle to reflect improvements in energy-efficient technologies and building practices.

The project would start construction in 2027 and would be required, at a minimum, to comply with the latest version of Title 24 standards at the time the project seeks building permits which would be the 2025 Energy Code which will go into effect on January 1, 2026. The 2025 standards continue to improve upon the 2019 standards for residential and nonresidential buildings used in CalEEMod for energy estimates.

In addition to the CEC's efforts, in 2008, the California Building Standards Commission adopted the nation's first green building standards. The California Green Building Standards Code (Part 11 of Title 24) is commonly referred to as CALGreen and establishes minimum mandatory standards as well as voluntary standards pertaining to the planning and design of sustainable site development, energy efficiency (in excess of the California Energy Code requirements), water conservation, material conservation, and interior air quality. The Project will be required to use the 2025 standards which will go into effect January 1, 2026. CALGreen standards include mandatory measures for planning and design, energy efficiency, water and conservation efficiency, material and resource conservation as well as Environmental Quality (California Title 24, Part 11, 2025).

Furthermore, the City has updated their Climate Action Plan (CAP) and now requires projects exceeding 500 metric tons carbon dioxide equivalent (MTCO<sub>2</sub>e) per year to complete the CAP Consistency Review Checklist (Ascent, 2020). The CAP checklist provides a number of requirements designed to reduce GHG emissions of which the primary method is to reduce the usage of non-renewable energy. The state has implemented a number of regulations which force electrical utility providers to increase renewable portfolios or procurement. Specifically, the following policies and how they shaped the current energy supply and the future energy horizon are noted below:

SB 1078 (2002) established the Renewables Portfolio Standard (RPS) program, which requires an annual increase in renewable generation by the utilities equivalent to at least 1 percent of sales, with an aggregate goal of 20 percent by 2017. This goal was subsequently accelerated, requiring utilities to obtain 20 percent of their power from renewable sources by 2010.

SB X1 2 (2011) expanded the RPS by establishing that 20 percent of the total electricity sold to retail customers in California per year by December 31, 2013, and 33 percent by December 31, 2020, and in subsequent years be secured from qualifying renewable energy sources. Under the bill, a renewable electrical generation facility is one that uses biomass, solar thermal, photovoltaic, wind, geothermal, fuel cells using renewable fuels, small hydroelectric generation of 30 megawatts or less, digester gas, municipal solid waste conversion, landfill gas, ocean wave, ocean thermal, or tidal current, and that meets other specified requirements with respect to its location. In addition to the retail sellers previously covered by the RPS, SB X1 2 added local, publicly owned electric utilities to the RPS.

SB 350 (2015) further expanded the RPS by establishing that 50 percent of the total electricity sold to retail customers in California per year by December 31, 2030 be secured from qualifying renewable energy sources. In addition, SB 350 includes the goal to double the energy efficiency savings in electricity and natural gas final end uses (such as heating, cooling, lighting, or class of energy uses on which an energy-efficiency program is focused) of retail customers through energy conservation and efficiency.

SB 100 (2018) has further accelerated and expanded the RPS, requiring achievement of a 50 percent RPS by December 31, 2026, and a 60 percent RPS by December 31, 2030. SB 100 also established a new statewide policy goal that calls for eligible renewable energy resources and zero-carbon resources to supply 100 percent of electricity retail sales and 100 percent of electricity procured to serve all state agencies by December 31, 2045.

The natural gas and electricity consumption of the proposed Project can be compared to the GP Buildout scenario, as shown in Table 2 below. As a design feature, the proposed Project would be 100 percent all electric so the natural gas usage would be zero kBTU. Based on the modeling results, the proposed GP Buildout scenario would consume approximately 7,938,899 kBTU.

In terms of electricity, the Project is estimated to consume 1,358,040 kWh per year, which is equivalent to approximately 4,633,632 kBTU. By comparison, the GP Buildout scenario would consume 2,859,951 kWh, or approximately 9,758,153 kBTU, annually. This indicates that the proposed Project would use 1,501,911 kWh (or 5,124,521 kBTU) less electricity per year than the GP Buildout scenario. The difference is primarily due to the GP Buildout scenario could include a high school, which typically has a high electrical energy demand.

When combining both natural gas and electricity usage, the proposed Project would consume an estimated total of 4,633,632 kBTU annually (0 kBTU from natural gas and 4,633,632 kBTU from electricity). In comparison, the GP Buildout scenario would consume approximately 17,697,052 kBTU annually (7,938,899 kBTU from natural gas and 9,758,153 kBTU from electricity). This results in a reduction of 13,063,420 kBTU in total annual energy consumption for the proposed Project when compared to the GP Buildout scenario.

**Table 2: Annual Energy Use Project vs. GP Buildout Scenario**

<b>Energy Source</b>	<b>Project</b>	<b>GP Buildout Scenario</b>	<b>Project Reductions compared to GP Buildout Scenario</b>
Natural Gas Usage (kBTU/Year)	0	7,938,899	7,938,899 kBTU
Electrical Usage (kWh)	1,358,040	2,859,951	1,501,911 kWh
Electrical Usage (kBTU/year)*	4,633,632	9,758,153	5,124,520 kBTU
Total Energy Use (kBTU/year)	4,633,632	17,697,052	13,063,420 kBTU
* Electrical energy was converted to kBTU using the standard conversion factor: 1 kWh = 3.412 kBTU			

Similar to the construction energy analysis, the operational comparison of the Project to the GP Buildout scenario is provided to show the relative scale of energy demand that could otherwise

occur under the City's land use assumptions by right. This comparison helps demonstrate that the proposed Project represents a smaller and more efficient all-electric design that aligns with the State's energy-efficiency goals. The proposed Project would consume zero natural gas and would use less energy compared to the GP Buildout scenario. From the data, the total combined energy for the Project would be 13,063,420 kBTU less than the GP Buildout scenario which would be allowed by right.

The Project energy usage estimates were based on Title 24 (2019); however, it should be noted that further reductions in energy use would be expected under the more stringent Title 24 (2024) standards which the Project would be subject to. Additional energy reductions are also anticipated through the implementation of the City's Climate Action Plan measures, which were not included in this analysis. Given the Project's design, regulatory compliance, and lower net energy demand relative to the GP Buildout scenario, the Project would not result in a significant impact related to energy under CEQA. Supporting CalEEMod output files for both the proposed Project and the GP Buildout scenario are provided in **Attachments A** and **-B**, respectively.

Furthermore, because the Project will be required to comply with Title 24 (2025) or the most current standards in effect at the time building permits are issued, installation of solar energy systems will be required at a minimum. Under the 2025 Building Energy Efficiency Standards (Title 24, Part 6), new single-family homes must include a solar photovoltaic (PV) system per Section 150.1(c)14, where the required system size is based on the home's overall conditioned floor area and expected energy usage (CEC, 2025). These requirements ensure that new residential developments offset a portion of their on-site electricity demand and contribute to California's long-term clean energy goals.

In addition to being smaller in scale, the proposed Project would comply with all applicable state and local energy efficiency requirements for building design and operation. Operational electricity demand would be regulated under Title 24 and CALGreen standards, which include requirements for efficient building systems, appliance standards, and renewable energy generation. Because the Project is both smaller in scale and subject to these existing energy efficiency standards, it would not result in the wasteful, inefficient, or unnecessary use of electrical energy resources during long-term operations.

### Energy – Vehicular Usage

The project traffic engineer estimated that the project would generate 2,393 ADT (LL&G Engineers, 2025) and the GP Buildout scenario would generate up to 4,864 ADT. According to SANDAG trip generation rates, a high school generates approximately 60 average daily trips (ADT) per acre (SANDAG, 2002). Based on the 56-acre site, this equates to approximately 3,360 ADT. Because CalEEMod requires school-related trips to be entered by the number of students, the 3,360 ADT value was converted using SANDAG's factor of 1.3 ADT per student (SANDAG,

2002), resulting in approximately 2,585 students for modeling purposes. It should be noted that schools are operating seasonally for roughly 180 days per year.

Based on this, the total yearly trips from the Project would be expected to be approximately 873,445 trips annually, while the GP Buildout scenario would generate roughly 1,154,760 trips per year (3,360 daily trips from the high school for 180 school days plus 1,508 daily trips from other uses for 365 days). This comparison shows that the proposed Project would result in approximately 281,315 fewer annual trips, which correlates to lower vehicle fuel consumption than the GP buildout scenario could generate by right under the City's General Plan.

Because the proposed Project would generate fewer trips and is smaller in overall scale, it would correspondingly result in lower vehicle fuel consumption and reduced transportation-related energy demand when compared to the GP buildout scenario. Given this, the Project would not result in the wasteful, inefficient, or unnecessary use of energy resources for vehicular operations.

Furthermore, energy efficiency for vehicles is mandated by State specific policies geared to reduce GHG emissions. For example, in May 2022, the National Highway Traffic Safety Administration (NHTSA) published rules finalizing revised fuel economy standards for passenger cars and light trucks for 2024-2025 and the standards increase at a rate of 8 percent per year. Then in 2026 an increase in the efficiency standard by 10 percent would be required. NHTSA estimates that the industry fleet-wide average will be 49 miles per gallon (MPG) in 2026. (NHTSA, 2022).

In July 2023, NHTSA proposed new Corporate Average Fuel Economy (CAFE) standards for passenger cars and light trucks built in model years 2027-2032, and new fuel efficiency standards for heavy-duty pickup trucks and vans built in model years 2030-2035. If finalized, the proposal would require an industry fleet-wide average of approximately 58 miles per gallon for passenger cars and light trucks in MY 2032, by increasing fuel economy by 2 percent year over year for passenger cars and by 4 percent year over year for light trucks. (NHTSA, 2023)

In 2015, SB 350 – the Clean Energy and Pollution Reduction Act – was enacted into law. As one of its elements, SB 350 establishes a statewide policy for widespread electrification of the transportation sector, recognizing that such electrification is required for achievement of the state's 2030 and 2050 reduction targets (see Public Utilities Code Section 740.12). This was further expanded by requiring 100 percent of all new cars sold in the state by 2035 to be electric (See EO N-79-20 (CARB, 2023)).

The project development would install electric vehicle chargers which would increase the usage of zero emission vehicles and would allow the project to be "ready" and consistent with the State's EV regulations and goals. Therefore, a less than significant impact on the energy resources would be expected from the project. The operational modeling of both the project and the GP Buildout scenario are also shown in **Attachments A** and **-B**, respectively.

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Although the GP buildout comparison is based on scale, the proposed Project independently demonstrates transportation energy efficiency through compliance with State and federal vehicle standards. The Project's inclusion of electric vehicle charging infrastructure and the ongoing implementation of State and federal fuel economy and zero-emission vehicle mandates will further reduce vehicle fuel consumption over time. Therefore, the Project would not result in the wasteful, inefficient, or unnecessary use of transportation energy resources under CEQA.

## **Conclusion**

Based on this analysis, the long-term energy demand during construction and operation of the project would not result in a wasteful or inefficient use of energy. This analysis assumes that the Project would meet all building efficiency requirements for both the State and the City and would be designed to minimize unnecessary or wasteful energy use. This includes Title 24, CalGreen, and the City's CAP. These regulations ensure that new development incorporates efficient building systems, electrification measures, and renewable energy where feasible. Compliance with these requirements demonstrates that the Project, on its own, would not result in wasteful, inefficient, or unnecessary energy use.

For context, this analysis also uses a comparison approach comparing a likely GP Buildout alternative that could occur by right under the General Plan, which includes single-family residential, Parks, and a high school. Because these uses when combined would have higher operational energy demands, the proposed Project would consume significantly less energy than the GP Buildout scenario. Therefore, the Project would result in a less than significant impact under CEQA with respect to energy waste and would not conflict with or obstruct State or local plans for renewable energy or energy efficiency.

Sincerely,

**Ldn Consulting, Inc.**



Jeremy Loudon, Principal

**Attachment A:** CalEEMod analysis tool (Proposed Project)

**Attachment B:** CalEEMod analysis tool (Proposed GP Buildout Scenario)

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**ATTACHMENT A**

CalEEMod Emission Model – Proposed Project

# Oak Crest Detailed Report

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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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Crest
Construction Start Date	1/1/2027
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	20.8
Location	33.16131403374409, -117.16634716646988
County	San Diego
City	San Marcos
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6215
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.30

## 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
Single Family Housing	145	Dwelling Unit	47.1	282,750	1,698,364	—	405	—

City Park	6.00	Acre	6.00	0.00	200,000	200,000	—	—
Condo/Townhouse	112	Dwelling Unit	15.0	118,720	80,000	—	312	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters
Energy	E-15	Require All-Electric Development

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.4	39.9	140	0.20	1.61	9.51	11.1	1.47	3.73	5.20	—	23,072	23,072	0.88	0.25	23,171
Mit.	24.4	39.9	140	0.20	0.25	9.51	9.75	0.22	3.73	3.95	—	23,072	23,072	0.88	0.25	23,171
% Reduced	—	—	—	—	85%	—	12%	85%	—	24%	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.8	40.0	140	0.20	1.61	19.8	20.7	1.47	10.1	11.0	—	23,059	23,059	0.89	0.25	23,157
Mit.	24.8	40.0	140	0.20	0.25	19.8	19.9	0.22	10.1	10.3	—	23,059	23,059	0.89	0.25	23,157
% Reduced	—	—	—	—	85%	—	4%	85%	—	7%	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	7.66	24.0	74.5	0.11	0.97	6.97	7.94	0.88	2.97	3.85	—	12,416	12,416	0.48	0.15	12,472
Mit.	7.66	24.0	74.5	0.11	0.15	6.97	7.12	0.13	2.97	3.11	—	12,416	12,416	0.48	0.15	12,472
% Reduced	—	—	—	—	85%	—	10%	85%	—	19%	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.40	4.38	13.6	0.02	0.18	1.27	1.45	0.16	0.54	0.70	—	2,056	2,056	0.08	0.02	2,065
Mit.	1.40	4.38	13.6	0.02	0.03	1.27	1.30	0.02	0.54	0.57	—	2,056	2,056	0.08	0.02	2,065
% Reduced	—	—	—	—	85%	—	10%	85%	—	19%	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.71	39.9	140	0.20	1.61	9.51	11.1	1.47	3.73	5.20	—	23,072	23,072	0.88	0.25	23,171
2028	0.85	11.7	19.0	0.03	0.43	1.30	1.73	0.39	0.31	0.70	—	4,026	4,026	0.13	0.15	4,081
2029	24.4	11.7	19.7	0.03	0.43	1.52	1.95	0.38	0.36	0.75	—	4,221	4,221	0.13	0.16	4,277
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.70	40.0	140	0.20	1.61	19.8	20.7	1.47	10.1	11.0	—	23,059	23,059	0.89	0.25	23,157
2028	0.84	11.8	18.4	0.03	0.43	1.30	1.73	0.39	0.31	0.70	—	3,961	3,961	0.14	0.15	4,010
2029	24.8	20.5	30.0	0.04	0.82	1.65	2.47	0.74	0.39	1.14	—	5,779	5,779	0.21	0.18	5,837
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.53	24.0	74.5	0.11	0.97	6.97	7.94	0.88	2.97	3.85	—	12,416	12,416	0.48	0.15	12,472
2028	0.60	8.46	13.2	0.02	0.31	0.92	1.23	0.28	0.22	0.50	—	2,844	2,844	0.10	0.11	2,881
2029	7.66	9.42	14.5	0.02	0.35	1.00	1.35	0.32	0.24	0.56	—	3,068	3,068	0.10	0.11	3,106

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28	4.38	13.6	0.02	0.18	1.27	1.45	0.16	0.54	0.70	—	2,056	2,056	0.08	0.02	2,065
2028	0.11	1.54	2.41	< 0.005	0.06	0.17	0.22	0.05	0.04	0.09	—	471	471	0.02	0.02	477
2029	1.40	1.72	2.65	< 0.005	0.06	0.18	0.25	0.06	0.04	0.10	—	508	508	0.02	0.02	514

### 2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.71	39.9	140	0.20	0.25	9.51	9.75	0.22	3.73	3.95	—	23,072	23,072	0.88	0.25	23,171
2028	0.85	11.7	19.0	0.03	0.07	1.30	1.37	0.07	0.31	0.38	—	4,026	4,026	0.13	0.15	4,081
2029	24.4	11.7	19.7	0.03	0.07	1.52	1.37	0.06	0.36	0.37	—	4,221	4,221	0.13	0.16	4,277
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.70	40.0	140	0.20	0.25	19.8	19.9	0.22	10.1	10.3	—	23,059	23,059	0.89	0.25	23,157
2028	0.84	11.8	18.4	0.03	0.07	1.30	1.37	0.07	0.31	0.38	—	3,961	3,961	0.14	0.15	4,010
2029	24.8	20.5	30.0	0.04	0.07	1.65	1.37	0.06	0.39	0.37	—	5,779	5,779	0.21	0.18	5,837
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.53	24.0	74.5	0.11	0.15	6.97	7.12	0.13	2.97	3.11	—	12,416	12,416	0.48	0.15	12,472
2028	0.60	8.46	13.2	0.02	0.05	0.92	0.97	0.05	0.22	0.27	—	2,844	2,844	0.10	0.11	2,881
2029	7.66	9.42	14.5	0.02	NaN	1.00	NaN	NaN	0.24	NaN	—	3,068	3,068	0.10	0.11	3,106
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28	4.38	13.6	0.02	0.03	1.27	1.30	0.02	0.54	0.57	—	2,056	2,056	0.08	0.02	2,065
2028	0.11	1.54	2.41	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	—	471	471	0.02	0.02	477
2029	1.40	1.72	2.65	< 0.005	NaN	0.18	NaN	NaN	0.04	NaN	—	508	508	0.02	0.02	514

## 2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	18.8	6.52	68.9	0.15	0.23	12.8	13.0	0.22	3.25	3.47	114	16,767	16,881	12.4	0.59	17,401
Mit.	18.7	4.89	68.2	0.14	0.10	12.8	12.9	0.09	3.25	3.34	114	14,706	14,820	12.2	0.59	15,334
% Reduced	1%	25%	1%	7%	57%	—	1%	59%	—	4%	—	12%	12%	1%	1%	12%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.4	6.85	51.6	0.14	0.22	12.8	13.0	0.22	3.25	3.46	114	16,114	16,227	12.4	0.62	16,728
Mit.	17.3	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	114	14,053	14,166	12.2	0.62	14,661
% Reduced	1%	24%	1%	7%	59%	—	1%	61%	—	4%	—	13%	13%	1%	1%	12%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	17.9	6.84	58.7	0.14	0.23	12.6	12.9	0.22	3.20	3.42	114	16,226	16,339	12.4	0.62	16,850
Mit.	17.8	5.22	58.0	0.13	0.09	12.6	12.7	0.09	3.20	3.29	114	14,165	14,278	12.2	0.61	14,783
% Reduced	1%	24%	1%	7%	58%	—	1%	60%	—	4%	—	13%	13%	1%	1%	12%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.27	1.25	10.7	0.03	0.04	2.30	2.35	0.04	0.58	0.62	18.9	2,686	2,705	2.06	0.10	2,790
Mit.	3.26	0.95	10.6	0.02	0.02	2.30	2.32	0.02	0.58	0.60	18.9	2,345	2,364	2.03	0.10	2,448
% Reduced	1%	24%	1%	7%	58%	—	1%	60%	—	4%	—	13%	13%	1%	1%	12%

## 2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.83	4.76	53.6	0.14	0.09	12.8	12.9	0.09	3.25	3.33	—	13,911	13,911	0.63	0.53	14,115
Area	10.9	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	39.0	39.0	< 0.005	< 0.005	39.1
Energy	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	2,692	2,692	0.30	0.02	2,705
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	18.8	6.52	68.9	0.15	0.23	12.8	13.0	0.22	3.25	3.47	114	16,767	16,881	12.4	0.59	17,401
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.70	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	—	13,296	13,296	0.67	0.56	13,481
Area	9.62	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	2,692	2,692	0.30	0.02	2,705
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	17.4	6.85	51.6	0.14	0.22	12.8	13.0	0.22	3.25	3.46	114	16,114	16,227	12.4	0.62	16,728
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.60	5.15	50.8	0.13	0.09	12.6	12.7	0.09	3.20	3.29	—	13,389	13,389	0.66	0.55	13,584
Area	10.2	0.07	7.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.2	19.2	< 0.005	< 0.005	19.3
Energy	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	2,692	2,692	0.30	0.02	2,705
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	17.9	6.84	58.7	0.14	0.23	12.6	12.9	0.22	3.20	3.42	114	16,226	16,339	12.4	0.62	16,850
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.39	0.94	9.27	0.02	0.02	2.30	2.32	0.02	0.58	0.60	—	2,217	2,217	0.11	0.09	2,249
Area	1.87	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	3.18	3.18	< 0.005	< 0.005	3.19
Energy	0.02	0.30	0.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	446	446	0.05	< 0.005	448
Water	—	—	—	—	—	—	—	—	—	—	2.86	20.7	23.6	0.30	0.01	33.2
Waste	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	55.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48
Total	3.27	1.25	10.7	0.03	0.04	2.30	2.35	0.04	0.58	0.62	18.9	2,686	2,705	2.06	0.10	2,790

## 2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.83	4.76	53.6	0.14	0.09	12.8	12.9	0.09	3.25	3.33	—	13,911	13,911	0.63	0.53	14,115
Area	10.9	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	39.0	39.0	< 0.005	< 0.005	39.1
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	631	631	0.12	0.01	639
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	18.7	4.89	68.2	0.14	0.10	12.8	12.9	0.09	3.25	3.34	114	14,706	14,820	12.2	0.59	15,334
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.70	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	—	13,296	13,296	0.67	0.56	13,481
Area	9.62	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	631	631	0.12	0.01	639
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	17.3	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	114	14,053	14,166	12.2	0.62	14,661
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	7.60	5.15	50.8	0.13	0.09	12.6	12.7	0.09	3.20	3.29	—	13,389	13,389	0.66	0.55	13,584
Area	10.2	0.07	7.21	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	19.2	19.2	< 0.005	< 0.005	19.3
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	631	631	0.12	0.01	639
Water	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Waste	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Total	17.8	5.22	58.0	0.13	0.09	12.6	12.7	0.09	3.20	3.29	114	14,165	14,278	12.2	0.61	14,783
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	1.39	0.94	9.27	0.02	0.02	2.30	2.32	0.02	0.58	0.60	—	2,217	2,217	0.11	0.09	2,249
Area	1.87	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	3.18	3.18	< 0.005	< 0.005	3.19
Energy	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	104	104	0.02	< 0.005	106
Water	—	—	—	—	—	—	—	—	—	—	2.86	20.7	23.6	0.30	0.01	33.2
Waste	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	55.9
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48
Total	3.26	0.95	10.6	0.02	0.02	2.30	2.32	0.02	0.58	0.60	18.9	2,345	2,364	2.03	0.10	2,448

### 3. Construction Emissions Details

#### 3.1. Demolition (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	17.3	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,427	3,427	0.14	0.03	3,439
Demolition	—	—	—	—	—	0.54	0.54	—	0.08	0.08	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.95	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	188	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	0.01	131
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
Hauling	0.01	0.57	0.22	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	436	436	0.02	0.07	457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	7.26
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
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.9	23.9	< 0.005	< 0.005	25.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	1.20
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
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.96	3.96	< 0.005	< 0.005	4.15

### 3.2. Demolition (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	17.3	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,427	3,427	0.14	0.03	3,439
Demolition	—	—	—	—	—	0.54	0.54	—	0.08	0.08	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.95	1.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	188	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	0.01	131
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
Hauling	0.01	0.57	0.22	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	436	436	0.02	0.07	457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	7.26
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
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.9	23.9	< 0.005	< 0.005	25.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	1.20
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
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.96	3.96	< 0.005	< 0.005	4.15

## 3.3. Site Preparation (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	24.0	28.3	0.05	0.94	—	0.94	0.84	—	0.84	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.63	3.10	0.01	0.10	—	0.10	0.09	—	0.09	—	581	581	0.02	< 0.005	583
Dust From Material Movement	—	—	—	—	—	2.15	2.15	—	1.11	1.11	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	96.1	96.1	< 0.005	< 0.005	96.5
Dust From Material Movement	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.63	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	151	151	0.01	0.01	153
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	16.9
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	2.80
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
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

### 3.4. Site Preparation (2027) - Mitigated

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

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

Off-Road Equipment	0.90	24.0	28.3	0.05	0.14	—	0.14	0.13	—	0.13	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.63	3.10	0.01	0.02	—	0.02	0.01	—	0.01	—	581	581	0.02	< 0.005	583
Dust From Material Movement	—	—	—	—	—	2.15	2.15	—	1.11	1.11	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.48	0.57	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	96.5
Dust From Material Movement	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.63	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	151	151	0.01	0.01	153
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

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	16.9
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	2.80
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
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

### 3.5. Grading (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	1.60	—	1.60	1.47	—	1.47	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	1.60	—	1.60	1.47	—	1.47	—	22,509	22,509	0.86	0.19	22,588

Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	19.5	68.6	0.10	0.79	—	0.79	0.72	—	0.72	—	11,100	11,100	0.42	0.10	11,139
Dust From Material Movement	—	—	—	—	—	4.54	4.54	—	1.80	1.80	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.55	12.5	0.02	0.14	—	0.14	0.13	—	0.13	—	1,838	1,838	0.07	0.02	1,844
Dust From Material Movement	—	—	—	—	—	0.83	0.83	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	1.02	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	228	228	0.01	0.01	232
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
Hauling	0.01	0.42	0.16	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.08	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	216	216	0.01	0.01	219
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
Hauling	0.01	0.44	0.17	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	0.01	< 0.005	109
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
Hauling	< 0.005	0.22	0.08	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	165	165	0.01	0.03	173
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	18.0
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
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.3	27.3	< 0.005	< 0.005	28.6

### 3.6. Grading (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	0.24	—	0.24	0.22	—	0.22	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.61	39.5	139	0.20	0.24	—	0.24	0.22	—	0.22	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	19.5	68.6	0.10	0.12	—	0.12	0.11	—	0.11	—	11,100	11,100	0.42	0.10	11,139
Dust From Material Movement	—	—	—	—	—	4.54	4.54	—	1.80	1.80	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.55	12.5	0.02	0.02	—	0.02	0.02	—	0.02	—	1,838	1,838	0.07	0.02	1,844
Dust From Material Movement	—	—	—	—	—	0.83	0.83	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	1.02	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	228	228	0.01	0.01	232
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
Hauling	0.01	0.42	0.16	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	351

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	216	216	0.01	0.01	219
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
Hauling	0.01	0.44	0.17	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	0.01	< 0.005	109
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
Hauling	< 0.005	0.22	0.08	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	165	165	0.01	0.03	173
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	18.0
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
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.3	27.3	< 0.005	< 0.005	28.6

### 3.7. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.60	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	—	124	124	0.01	< 0.005	125
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	20.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.41	4.78	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,146	1,146	0.06	0.05	1,162
Vendor	0.02	0.86	0.40	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	661	661	0.03	0.09	689
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.27	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	65.6	65.6	< 0.005	< 0.005	66.6
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.5	37.5	< 0.005	0.01	39.1
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	11.0
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.21	6.21	< 0.005	< 0.005	6.48
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

### 3.8. Building Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.60	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	124	124	0.01	< 0.005	125
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	20.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.46	0.41	4.78	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,146	1,146	0.06	0.05	1,162
Vendor	0.02	0.86	0.40	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	661	661	0.03	0.09	689
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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.27	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	65.6	65.6	< 0.005	< 0.005	66.6
Vendor	< 0.005	0.05	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	37.5	37.5	< 0.005	0.01	39.1
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.9	10.9	< 0.005	< 0.005	11.0
Vendor	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	6.21	6.21	< 0.005	< 0.005	6.48
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

### 3.9. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.61	9.66	0.01	0.30	—	0.30	0.27	—	0.27	—	1,569	1,569	0.06	0.01	1,574

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05	—	260	260	0.01	< 0.005	261
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.32	5.15	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,192	1,192	0.02	0.04	1,209
Vendor	0.02	0.79	0.38	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	644	644	0.02	0.09	673
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.37	4.51	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,126	1,126	0.02	0.04	1,140
Vendor	0.02	0.82	0.39	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	644	644	0.02	0.09	673
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.26	3.27	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	814	814	0.02	0.03	825
Vendor	0.02	0.58	0.27	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	461	461	0.02	0.07	482
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.60	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	135	135	< 0.005	0.01	137
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	76.4	76.4	< 0.005	0.01	79.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

### 3.10. Building Construction (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.61	9.66	0.01	0.05	—	0.05	0.04	—	0.04	—	1,569	1,569	0.06	0.01	1,574
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.01	< 0.005	261
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.32	5.15	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,192	1,192	0.02	0.04	1,209
Vendor	0.02	0.79	0.38	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	644	644	0.02	0.09	673

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.45	0.37	4.51	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,126	1,126	0.02	0.04	1,140
Vendor	0.02	0.82	0.39	< 0.005	0.01	0.18	0.19	0.01	0.05	0.06	—	644	644	0.02	0.09	673
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.32	0.26	3.27	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	814	814	0.02	0.03	825
Vendor	0.02	0.58	0.27	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	461	461	0.02	0.07	482
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.60	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	135	135	< 0.005	0.01	137
Vendor	< 0.005	0.11	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	76.4	76.4	< 0.005	0.01	79.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

### 3.11. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,189	2,189	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,189	2,189	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.59	9.63	0.01	0.30	—	0.30	0.27	—	0.27	—	1,564	1,564	0.06	0.01	1,569
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.05	—	0.05	0.05	—	0.05	—	259	259	0.01	< 0.005	260
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.29	4.86	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,172	1,172	0.02	0.04	1,189
Vendor	0.02	0.75	0.37	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.05	—	626	626	0.02	0.09	654
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.33	4.24	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,107	1,107	0.02	0.04	1,121
Vendor	0.02	0.78	0.37	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.05	—	626	626	0.02	0.09	653
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	3.07	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	798	798	0.01	0.03	808
Vendor	0.02	0.56	0.27	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	447	447	0.02	0.06	466
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	132	132	< 0.005	0.01	134
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.0	74.0	< 0.005	0.01	77.2
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

### 3.12. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,189	2,189	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,189	2,189	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.59	9.63	0.01	0.05	—	0.05	0.04	—	0.04	—	1,564	1,564	0.06	0.01	1,569
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	259	259	0.01	< 0.005	260

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.44	0.29	4.86	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,172	1,172	0.02	0.04	1,189
Vendor	0.02	0.75	0.37	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.05	—	626	626	0.02	0.09	654
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.33	4.24	0.00	0.00	1.12	1.12	0.00	0.26	0.26	—	1,107	1,107	0.02	0.04	1,121
Vendor	0.02	0.78	0.37	< 0.005	0.01	0.18	0.19	< 0.005	0.05	0.05	—	626	626	0.02	0.09	653
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.23	3.07	0.00	0.00	0.79	0.79	0.00	0.19	0.19	—	798	798	0.01	0.03	808
Vendor	0.02	0.56	0.27	< 0.005	0.01	0.12	0.13	< 0.005	0.03	0.04	—	447	447	0.02	0.06	466
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.04	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	132	132	< 0.005	0.01	134
Vendor	< 0.005	0.10	0.05	< 0.005	< 0.005	0.02	0.02	< 0.005	0.01	0.01	—	74.0	74.0	< 0.005	0.01	77.2
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

### 3.13. Paving (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	8.62	10.6	0.01	0.39	—	0.39	0.36	—	0.36	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.02	1.25	< 0.005	0.05	—	0.05	0.04	—	0.04	—	178	178	0.01	< 0.005	179
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.5	29.5	< 0.005	< 0.005	29.6
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	127
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
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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	15.1
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	2.49
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
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

### 3.14. Paving (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	8.62	10.6	0.01	0.06	—	0.06	0.05	—	0.05	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.02	1.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	179
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5	29.5	< 0.005	< 0.005	29.6
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	127
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	15.1
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	2.49
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
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

### 3.15. Architectural Coating (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	7.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	1.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	0.97	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	234	234	< 0.005	0.01	238
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.85	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	221	221	< 0.005	0.01	224
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.7	66.7	< 0.005	< 0.005	67.6
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	11.2
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
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

### 3.16. Architectural Coating (2029) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	23.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	7.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	1.28	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	0.97	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	234	234	< 0.005	0.01	238
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.07	0.85	0.00	0.00	0.22	0.22	0.00	0.05	0.05	—	221	221	< 0.005	0.01	224
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.03	0.02	0.26	0.00	0.00	0.07	0.07	0.00	0.02	0.02	—	66.7	66.7	< 0.005	< 0.005	67.6
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	11.0	11.0	< 0.005	< 0.005	11.2
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
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

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.74	2.88	32.4	0.08	0.06	7.73	7.79	0.05	1.96	2.01	—	8,407	8,407	0.38	0.32	8,531
City Park	0.16	0.10	1.16	< 0.005	< 0.005	0.28	0.29	< 0.005	0.07	0.07	—	308	308	0.01	0.01	313
Condo/Townhouse	2.93	1.78	20.0	0.05	0.03	4.78	4.81	0.03	1.21	1.24	—	5,195	5,195	0.24	0.20	5,271
Total	7.83	4.76	53.6	0.14	0.09	12.8	12.9	0.09	3.25	3.33	—	13,911	13,911	0.63	0.53	14,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.67	3.16	30.8	0.08	0.06	7.73	7.79	0.05	1.96	2.01	—	8,036	8,036	0.41	0.34	8,148
City Park	0.16	0.11	1.09	< 0.005	< 0.005	0.28	0.29	< 0.005	0.07	0.07	—	295	295	0.01	0.01	299
Condo/Townhouse	2.88	1.95	19.0	0.05	0.03	4.78	4.81	0.03	1.21	1.24	—	4,966	4,966	0.25	0.21	5,035
Total	7.70	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	—	13,296	13,296	0.67	0.56	13,481
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.84	0.57	5.60	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,340	1,340	0.07	0.06	1,359
City Park	0.03	0.02	0.20	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	49.8
Condo/Townhouse	0.52	0.35	3.46	0.01	0.01	0.86	0.87	0.01	0.22	0.22	—	828	828	0.04	0.03	840
Total	1.39	0.94	9.27	0.02	0.02	2.30	2.32	0.02	0.58	0.60	—	2,217	2,217	0.11	0.09	2,249

#### 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.74	2.88	32.4	0.08	0.06	7.73	7.79	0.05	1.96	2.01	—	8,407	8,407	0.38	0.32	8,531
City Park	0.16	0.10	1.16	< 0.005	< 0.005	0.28	0.29	< 0.005	0.07	0.07	—	308	308	0.01	0.01	313
Condo/Townhouse	2.93	1.78	20.0	0.05	0.03	4.78	4.81	0.03	1.21	1.24	—	5,195	5,195	0.24	0.20	5,271
Total	7.83	4.76	53.6	0.14	0.09	12.8	12.9	0.09	3.25	3.33	—	13,911	13,911	0.63	0.53	14,115
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	4.67	3.16	30.8	0.08	0.06	7.73	7.79	0.05	1.96	2.01	—	8,036	8,036	0.41	0.34	8,148
City Park	0.16	0.11	1.09	< 0.005	< 0.005	0.28	0.29	< 0.005	0.07	0.07	—	295	295	0.01	0.01	299
Condo/Townhouse	2.88	1.95	19.0	0.05	0.03	4.78	4.81	0.03	1.21	1.24	—	4,966	4,966	0.25	0.21	5,035
Total	7.70	5.23	50.9	0.13	0.09	12.8	12.9	0.09	3.25	3.33	—	13,296	13,296	0.67	0.56	13,481
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.84	0.57	5.60	0.01	0.01	1.39	1.40	0.01	0.35	0.36	—	1,340	1,340	0.07	0.06	1,359
City Park	0.03	0.02	0.20	< 0.005	< 0.005	0.05	0.05	< 0.005	0.01	0.01	—	49.1	49.1	< 0.005	< 0.005	49.8
Condo/Townhouse	0.52	0.35	3.46	0.01	0.01	0.86	0.87	0.01	0.22	0.22	—	828	828	0.04	0.03	840
Total	1.39	0.94	9.27	0.02	0.02	2.30	2.32	0.02	0.58	0.60	—	2,217	2,217	0.11	0.09	2,249

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	414	414	0.08	0.01	419
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	215	215	0.04	0.01	217
Total	—	—	—	—	—	—	—	—	—	—	—	629	629	0.12	0.01	636
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	414	414	0.08	0.01	419
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	215	215	0.04	0.01	217
Total	—	—	—	—	—	—	—	—	—	—	—	629	629	0.12	0.01	636
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	68.5	68.5	0.01	< 0.005	69.3
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35.6	35.6	0.01	< 0.005	36.0
Total	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	105

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	415	415	0.08	0.01	420
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	216	216	0.04	0.01	218
Total	—	—	—	—	—	—	—	—	—	—	—	631	631	0.12	0.01	639
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	415	415	0.08	0.01	420
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	216	216	0.04	0.01	218
Total	—	—	—	—	—	—	—	—	—	—	—	631	631	0.12	0.01	639
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	68.8	68.8	0.01	< 0.005	69.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	35.7	35.7	0.01	< 0.005	36.2
Total	—	—	—	—	—	—	—	—	—	—	—	104	104	0.02	< 0.005	106

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.06	1.04	0.44	0.01	0.08	—	0.08	0.08	—	0.08	—	1,325	1,325	0.12	< 0.005	1,329
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	0.03	0.58	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	738	738	0.07	< 0.005	740
Total	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	2,063	2,063	0.18	< 0.005	2,069
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.06	1.04	0.44	0.01	0.08	—	0.08	0.08	—	0.08	—	1,325	1,325	0.12	< 0.005	1,329
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	0.03	0.58	0.25	< 0.005	0.05	—	0.05	0.05	—	0.05	—	738	738	0.07	< 0.005	740
Total	0.10	1.63	0.69	0.01	0.13	—	0.13	0.13	—	0.13	—	2,063	2,063	0.18	< 0.005	2,069
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.01	0.19	0.08	< 0.005	0.02	—	0.02	0.02	—	0.02	—	219	219	0.02	< 0.005	220
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Condo/Townhouse	0.01	0.11	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	122	122	0.01	< 0.005	123
Total	0.02	0.30	0.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	342	342	0.03	< 0.005	343

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
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
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

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscaping Equipment	1.26	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	39.1
Total	10.9	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	39.0	39.0	< 0.005	< 0.005	39.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.62	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap Equipment	0.11	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.18	3.18	< 0.005	< 0.005	3.19
Total	1.87	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	3.18	3.18	< 0.005	< 0.005	3.19

## 4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consum er Products	8.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap e Equipme nt	1.26	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	—	39.0	39.0	< 0.005	< 0.005	39.1
Total	10.9	0.14	14.6	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	39.0	39.0	< 0.005	< 0.005	39.1
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consum er Products	8.92	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	0.70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.62	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.63	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.11	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.18	3.18	< 0.005	< 0.005	3.19
Total	1.87	0.01	1.32	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	3.18	3.18	< 0.005	< 0.005	3.19

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	9.76	92.6	102	1.02	0.03	136
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	7.54	16.1	23.6	0.78	0.02	48.6
Total	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	9.76	92.6	102	1.02	0.03	136

City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	7.54	16.1	23.6	0.78	0.02	48.6
Total	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	1.62	15.3	17.0	0.17	< 0.005	22.5
City Park	—	—	—	—	—	—	—	—	—	—	0.00	2.71	2.71	< 0.005	< 0.005	2.74
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	1.25	2.66	3.91	0.13	< 0.005	8.04
Total	—	—	—	—	—	—	—	—	—	—	2.86	20.7	23.6	0.30	0.01	33.2

4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	9.76	92.6	102	1.02	0.03	136
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	7.54	16.1	23.6	0.78	0.02	48.6
Total	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	9.76	92.6	102	1.02	0.03	136
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6

Condo/To	—	—	—	—	—	—	—	—	—	—	7.54	16.1	23.6	0.78	0.02	48.6
Total	—	—	—	—	—	—	—	—	—	—	17.3	125	142	1.80	0.05	201
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	1.62	15.3	17.0	0.17	< 0.005	22.5
City Park	—	—	—	—	—	—	—	—	—	—	0.00	2.71	2.71	< 0.005	< 0.005	2.74
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	1.25	2.66	3.91	0.13	< 0.005	8.04
Total	—	—	—	—	—	—	—	—	—	—	2.86	20.7	23.6	0.30	0.01	33.2

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	51.7	0.00	51.7	5.17	0.00	181
City Park	—	—	—	—	—	—	—	—	—	—	0.28	0.00	0.28	0.03	0.00	0.97
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	44.6	0.00	44.6	4.45	0.00	156
Total	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	51.7	0.00	51.7	5.17	0.00	181
City Park	—	—	—	—	—	—	—	—	—	—	0.28	0.00	0.28	0.03	0.00	0.97

Condo/To	—	—	—	—	—	—	—	—	—	—	44.6	0.00	44.6	4.45	0.00	156
Total	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	8.57	0.00	8.57	0.86	0.00	30.0
City Park	—	—	—	—	—	—	—	—	—	—	0.05	0.00	0.05	< 0.005	0.00	0.16
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	7.38	0.00	7.38	0.74	0.00	25.8
Total	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	55.9

## 4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	51.7	0.00	51.7	5.17	0.00	181
City Park	—	—	—	—	—	—	—	—	—	—	0.28	0.00	0.28	0.03	0.00	0.97
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	44.6	0.00	44.6	4.45	0.00	156
Total	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	51.7	0.00	51.7	5.17	0.00	181
City Park	—	—	—	—	—	—	—	—	—	—	0.28	0.00	0.28	0.03	0.00	0.97
Condo/To wnhouse	—	—	—	—	—	—	—	—	—	—	44.6	0.00	44.6	4.45	0.00	156

Total	—	—	—	—	—	—	—	—	—	—	96.6	0.00	96.6	9.65	0.00	338
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	8.57	0.00	8.57	0.86	0.00	30.0
City Park	—	—	—	—	—	—	—	—	—	—	0.05	0.00	0.05	< 0.005	0.00	0.16
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	7.38	0.00	7.38	0.74	0.00	25.8
Total	—	—	—	—	—	—	—	—	—	—	16.0	0.00	16.0	1.60	0.00	55.9

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.03
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.03
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48

#### 4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.03
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.03
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00

Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.88
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.34
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
Condo/Townhouse	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.48

### 4.7. Offroad Emissions By Equipment Type

#### 4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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)

Equipme Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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)

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

##### 4.8.2. Mitigated

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

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

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

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

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

### 4.9.2. Mitigated

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

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

### 4.10. Soil Carbon Accumulation By Vegetation Type

#### 4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

## 4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	1/28/2027	5.00	20.0	—
Site Preparation	Site Preparation	1/29/2027	3/25/2027	5.00	40.0	—
Grading	Grading	3/26/2027	12/2/2027	5.00	180	—
Building Construction	Building Construction	12/3/2027	12/31/2029	5.00	542	—

Paving	Paving	11/1/2029	12/31/2029	5.00	43.0	—
Architectural Coating	Architectural Coating	8/1/2029	12/31/2029	5.00	109	—

## 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	Tier 3	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 3	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 3	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Tier 3	1.00	8.00	83.0	0.50
Grading	Crushing/Proc. Equipment	Diesel	Average	1.00	8.00	310	5.00
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 3	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 3	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 3	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 3	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Tier 3	1.00	8.00	83.0	0.50
Grading	Crushing/Proc. Equipment	Diesel	Average	1.00	8.00	310	5.00
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 3	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Tier 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	6.35	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	4.86	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	133	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	27.5	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	26.6	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	6.35	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	4.86	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	133	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	27.5	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	26.6	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	812,977	270,992	15,000	5,000	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	11,000	—
Site Preparation	—	—	60.0	0.00	—
Grading	—	7,000	540	0.00	—
Paving	0.00	0.00	0.00	0.00	1.60

## 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	1.60	0%
City Park	0.00	0%
Condo/Townhouse	—	0%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	123	589	0.03	< 0.005
2028	123	589	0.03	< 0.005
2029	203	589	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
Single Family Housing	1,450	1,450	1,450	529,250	10,952	10,952	10,952	3,997,387

City Park	47.0	47.0	47.0	17,170	403	403	403	147,130
Condo/Townhouse	896	896	896	327,040	6,767	6,767	6,767	2,470,109

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	1,450	1,450	1,450	529,250	10,952	10,952	10,952	3,997,387
City Park	47.0	47.0	47.0	17,170	403	403	403	147,130
Condo/Townhouse	896	896	896	327,040	6,767	6,767	6,767	2,470,109

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	145
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	112
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

## 5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	145
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0
Condo/Townhouse	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	112
Conventional Wood Stoves	0
Catalytic Wood Stoves	0

Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
812976.75	270,992	15,000	5,000	—

### 5.10.3. Landscape Equipment

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

### 5.10.4. Landscape Equipment - Mitigated

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	890,485	170	0.0330	0.0040	4,134,955
City Park	0.00	170	0.0330	0.0040	0.00
Condo/Townhouse	462,488	170	0.0330	0.0040	2,303,250

## 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)
Single Family Housing	893,711	170	0.0330	0.0040	0.00
City Park	0.00	170	0.0330	0.0040	0.00
Condo/Townhouse	464,329	170	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)
Single Family Housing	5,094,296	31,020,769
City Park	0.00	6,641,851
Condo/Townhouse	3,934,904	1,461,207

## 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	5,094,296	31,020,769
City Park	0.00	6,641,851
Condo/Townhouse	3,934,904	1,461,207

## 5.13. Operational Waste Generation

## 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	96.0	—
City Park	0.52	—

Condo/Townhouse	82.7	—
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### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	96.0	—
City Park	0.52	—
Condo/Townhouse	82.7	—

## 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
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
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

### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
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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## 5.18. Vegetation

## 5.18.1. Land Use Change

## 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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## 5.18.1.2. Mitigated

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

## 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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## 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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## 5.18.2. Sequestration

## 5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	14.7	annual days of extreme heat
Extreme Precipitation	5.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	10.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about  $\frac{3}{4}$  an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

### 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A

Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

### 6.3. Adjusted Climate Risk Scores

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

### 6.4. Climate Risk Reduction Measures

## 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	42.6
AQ-PM	19.7
AQ-DPM	26.7
Drinking Water	24.2
Lead Risk Housing	16.8
Pesticides	66.9
Toxic Releases	19.2
Traffic	17.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	0.00
Haz Waste Facilities/Generators	52.6
Impaired Water Bodies	43.8
Solid Waste	67.6
Sensitive Population	—
Asthma	7.78
Cardio-vascular	21.9
Low Birth Weights	57.6
Socioeconomic Factor Indicators	—
Education	40.1
Housing	18.9
Linguistic	33.9
Poverty	9.27
Unemployment	53.9

## 7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	69.66508405
Employed	40.65186706
Median HI	76.83818812
Education	—
Bachelor's or higher	68.16373669
High school enrollment	20.74939048
Preschool enrollment	62.73578853
Transportation	—
Auto Access	98.98626973
Active commuting	32.86282561
Social	—
2-parent households	70.47350186
Voting	76.18375465
Neighborhood	—
Alcohol availability	91.91582189
Park access	53.67637624
Retail density	14.83382523
Supermarket access	17.56704735
Tree canopy	19.82548441
Housing	—
Homeownership	87.93789298
Housing habitability	80.5338124
Low-inc homeowner severe housing cost burden	50.00641601
Low-inc renter severe housing cost burden	61.01629668

Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	70.06287694
Arthritis	81.7
Asthma ER Admissions	90.9
High Blood Pressure	90.4
Cancer (excluding skin)	63.4
Asthma	69.3
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	76.7
Diagnosed Diabetes	79.4
Life Expectancy at Birth	85.3
Cognitively Disabled	78.9
Physically Disabled	94.1
Heart Attack ER Admissions	88.4
Mental Health Not Good	61.1
Chronic Kidney Disease	85.5
Obesity	71.5
Pedestrian Injuries	42.0
Physical Health Not Good	74.9
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	16.3
Current Smoker	61.3
No Leisure Time for Physical Activity	65.6
Climate Change Exposures	—
Wildfire Risk	53.8
SLR Inundation Area	0.0

Children	14.1
Elderly	76.6
English Speaking	35.0
Foreign-born	48.4
Outdoor Workers	72.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.4
Traffic Density	32.8
Traffic Access	23.0
Other Indices	—
Hardship	40.9
Other Decision Support	—
2016 Voting	79.5

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	71.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

## 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Per PD
Construction: Construction Phases	Construction Schedule
Operations: Vehicle Data	Updated to reflect PD
Operations: Hearths	No Hearth options will be installed
Construction: Off-Road Equipment	CE - T3 Design Feature
Construction: Off-Road Equipment EF	Updated Crusher to mach proposed equipment

**ATTACHMENT B**

CalEEMod Emission Model – General Plan Buildout Scenario

# Oak Crest GP Scenario Detailed Report

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5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

# 1. Basic Project Information

## 1.1. Basic Project Information

Data Field	Value
Project Name	Oak Crest GP Scenario
Construction Start Date	1/1/2027
Operational Year	2030
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.20
Precipitation (days)	20.8
Location	33.16131403374409, -117.16634716646988
County	San Diego
City	San Marcos
Air District	San Diego County APCD
Air Basin	San Diego
TAZ	6215
EDFZ	12
Electric Utility	San Diego Gas & Electric
Gas Utility	San Diego Gas & Electric
App Version	2022.1.1.30

## 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
Single Family Housing	89.0	Dwelling Unit	28.9	173,550	1,042,444	—	248	—

City Park	16.0	Acre	16.0	0.00	200,000	200,000	—	—
High School	1,653	Student	5.03	219,289	25,000	25,000	—	—

### 1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-6	Use Diesel Particulate Filters
Energy	E-15	Require All-Electric Development

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	20.6	39.9	140	0.20	1.61	9.51	11.1	1.47	3.73	5.20	—	23,072	23,072	0.88	0.25	23,171
Mit.	20.6	39.9	140	0.20	0.25	9.51	9.75	0.22	3.73	3.95	—	23,072	23,072	0.88	0.25	23,171
% Reduced	—	—	—	—	85%	—	12%	85%	—	24%	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	21.0	40.0	140	0.20	1.61	19.8	20.7	1.47	10.1	11.0	—	23,059	23,059	0.89	0.25	23,157
Mit.	21.0	40.0	140	0.20	0.25	19.8	19.9	0.22	10.1	10.3	—	23,059	23,059	0.89	0.25	23,157
% Reduced	—	—	—	—	85%	—	4%	85%	—	7%	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unmit.	6.53	24.0	74.4	0.11	0.97	6.97	7.94	0.88	2.98	3.86	—	12,436	12,436	0.48	0.15	12,493
Mit.	6.53	24.0	74.4	0.11	0.15	6.97	7.12	0.13	2.98	3.11	—	12,436	12,436	0.48	0.15	12,493
% Reduced	—	—	—	—	85%	—	10%	85%	—	19%	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.19	4.39	13.6	0.02	0.18	1.27	1.45	0.16	0.54	0.70	—	2,059	2,059	0.08	0.03	2,068
Mit.	1.19	4.39	13.6	0.02	0.03	1.27	1.30	0.02	0.54	0.57	—	2,059	2,059	0.08	0.03	2,068
% Reduced	—	—	—	—	85%	—	10%	85%	—	19%	—	—	—	—	—	—

## 2.2. Construction Emissions by Year, Unmitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.71	39.9	140	0.20	1.61	9.51	11.1	1.47	3.73	5.20	—	23,072	23,072	0.88	0.25	23,171
2028	0.83	12.2	18.9	0.03	0.44	1.34	1.78	0.40	0.33	0.72	—	4,370	4,370	0.15	0.21	4,442
2029	20.6	12.2	19.5	0.03	0.44	1.55	1.99	0.39	0.38	0.76	—	4,539	4,539	0.15	0.21	4,611
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.70	40.0	140	0.20	1.61	19.8	20.7	1.47	10.1	11.0	—	23,059	23,059	0.89	0.25	23,157
2028	0.83	12.3	18.3	0.03	0.44	1.34	1.78	0.40	0.33	0.72	—	4,309	4,309	0.15	0.21	4,376
2029	21.0	21.0	29.9	0.04	0.83	1.68	2.51	0.75	0.41	1.15	—	6,102	6,102	0.22	0.23	6,176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.53	24.0	74.4	0.11	0.97	6.97	7.94	0.88	2.98	3.86	—	12,436	12,436	0.48	0.15	12,493
2028	0.59	8.83	13.2	0.02	0.31	0.95	1.26	0.28	0.23	0.51	—	3,093	3,093	0.11	0.15	3,142
2029	6.53	9.77	14.5	0.02	0.36	1.02	1.38	0.32	0.25	0.57	—	3,304	3,304	0.11	0.15	3,354

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28	4.39	13.6	0.02	0.18	1.27	1.45	0.16	0.54	0.70	—	2,059	2,059	0.08	0.02	2,068
2028	0.11	1.61	2.40	< 0.005	0.06	0.17	0.23	0.05	0.04	0.09	—	512	512	0.02	0.03	520
2029	1.19	1.78	2.64	< 0.005	0.07	0.19	0.25	0.06	0.05	0.10	—	547	547	0.02	0.02	555

### 2.3. Construction Emissions by Year, Mitigated

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

Year	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.71	39.9	140	0.20	0.25	9.51	9.75	0.22	3.73	3.95	—	23,072	23,072	0.88	0.25	23,171
2028	0.83	12.2	18.9	0.03	0.08	1.34	1.42	0.07	0.33	0.40	—	4,370	4,370	0.15	0.21	4,442
2029	20.6	12.2	19.5	0.03	0.08	1.55	1.42	0.06	0.38	0.39	—	4,539	4,539	0.15	0.21	4,611
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	2.70	40.0	140	0.20	0.25	19.8	19.9	0.22	10.1	10.3	—	23,059	23,059	0.89	0.25	23,157
2028	0.83	12.3	18.3	0.03	0.08	1.34	1.42	0.07	0.33	0.40	—	4,309	4,309	0.15	0.21	4,376
2029	21.0	21.0	29.9	0.04	0.08	1.68	1.42	0.06	0.41	0.39	—	6,102	6,102	0.22	0.23	6,176
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	1.53	24.0	74.4	0.11	0.15	6.97	7.12	0.13	2.98	3.11	—	12,436	12,436	0.48	0.15	12,493
2028	0.59	8.83	13.2	0.02	0.06	0.95	1.00	0.05	0.23	0.28	—	3,093	3,093	0.11	0.15	3,142
2029	6.53	9.77	14.5	0.02	NaN	1.02	NaN	NaN	0.25	NaN	—	3,304	3,304	0.11	0.15	3,354
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2027	0.28	4.39	13.6	0.02	0.03	1.27	1.30	0.02	0.54	0.57	—	2,059	2,059	0.08	0.02	2,068
2028	0.11	1.61	2.40	< 0.005	0.01	0.17	0.18	0.01	0.04	0.05	—	512	512	0.02	0.03	520
2029	1.19	1.78	2.64	< 0.005	NaN	0.19	NaN	NaN	0.05	NaN	—	547	547	0.02	0.02	555

## 2.4. Operations Emissions Compared Against Thresholds

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

Un/Mit.	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	27.7	12.1	134	0.32	0.35	28.7	29.1	0.33	7.29	7.62	215	34,176	34,391	23.3	1.24	35,411
Mit.	27.7	11.4	133	0.31	0.29	28.7	29.0	0.28	7.29	7.56	215	33,364	33,579	23.2	1.23	34,597
% Reduced	< 0.5%	5%	< 0.5%	1%	15%	—	< 0.5%	16%	—	1%	—	2%	2%	< 0.5%	< 0.5%	2%
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	25.5	13.0	112	0.30	0.33	28.7	29.1	0.31	7.29	7.60	215	32,742	32,957	23.4	1.30	33,933
Mit.	25.4	12.3	112	0.30	0.27	28.7	29.0	0.26	7.29	7.55	215	31,930	32,145	23.3	1.30	33,118
% Reduced	< 0.5%	5%	< 0.5%	1%	16%	—	< 0.5%	17%	—	1%	—	2%	2%	< 0.5%	< 0.5%	2%
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	23.8	11.1	102	0.26	0.30	23.8	24.1	0.29	6.04	6.33	215	28,163	28,378	23.1	1.10	29,310
Mit.	23.7	10.4	101	0.25	0.25	23.8	24.1	0.24	6.04	6.28	215	27,352	27,566	23.0	1.10	28,496
% Reduced	< 0.5%	6%	< 0.5%	2%	17%	—	< 0.5%	18%	—	1%	—	3%	3%	< 0.5%	< 0.5%	3%
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.33	2.02	18.6	0.05	0.06	4.34	4.40	0.05	1.10	1.15	35.6	4,663	4,698	3.83	0.18	4,853
Mit.	4.33	1.91	18.5	0.05	0.05	4.34	4.39	0.04	1.10	1.15	35.6	4,528	4,564	3.81	0.18	4,718
% Reduced	< 0.5%	6%	< 0.5%	2%	17%	—	< 0.5%	18%	—	1%	—	3%	3%	< 0.5%	< 0.5%	3%

## 2.5. Operations Emissions by Sector, Unmitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.3	10.4	118	0.31	0.20	28.7	28.9	0.19	7.29	7.48	—	31,163	31,163	1.36	1.16	31,611
Area	11.3	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	52.7	52.7	< 0.005	< 0.005	52.9
Energy	0.09	1.57	1.05	0.01	0.12	—	0.12	0.12	—	0.12	—	2,862	2,862	0.35	0.03	2,878
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	27.7	12.1	134	0.32	0.35	28.7	29.1	0.33	7.29	7.62	215	34,176	34,391	23.3	1.24	35,411
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.1	11.4	111	0.29	0.20	28.7	28.9	0.19	7.29	7.48	—	29,782	29,782	1.44	1.23	30,185
Area	9.32	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Energy	0.09	1.57	1.05	0.01	0.12	—	0.12	0.12	—	0.12	—	2,862	2,862	0.35	0.03	2,878
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	25.5	13.0	112	0.30	0.33	28.7	29.1	0.31	7.29	7.60	215	32,742	32,957	23.4	1.30	33,933
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	9.46	93.5	0.25	0.17	23.8	24.0	0.16	6.04	6.20	—	25,177	25,177	1.19	1.02	25,536
Area	10.3	0.06	7.20	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	26.0	26.0	< 0.005	< 0.005	26.1
Energy	0.09	1.57	1.05	0.01	0.12	—	0.12	0.12	—	0.12	—	2,862	2,862	0.35	0.03	2,878
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682

Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	23.8	11.1	102	0.26	0.30	23.8	24.1	0.29	6.04	6.33	215	28,163	28,378	23.1	1.10	29,310
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.44	1.73	17.1	0.05	0.03	4.34	4.37	0.03	1.10	1.13	—	4,168	4,168	0.20	0.17	4,228
Area	1.88	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.30	4.30	< 0.005	< 0.005	4.32
Energy	0.02	0.29	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	474	474	0.06	< 0.005	477
Water	—	—	—	—	—	—	—	—	—	—	3.30	16.3	19.6	0.34	0.01	30.6
Waste	—	—	—	—	—	—	—	—	—	—	32.3	0.00	32.3	3.23	0.00	113
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35
Total	4.33	2.02	18.6	0.05	0.06	4.34	4.40	0.05	1.10	1.15	35.6	4,663	4,698	3.83	0.18	4,853

## 2.6. Operations Emissions by Sector, Mitigated

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

Sector	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.3	10.4	118	0.31	0.20	28.7	28.9	0.19	7.29	7.48	—	31,163	31,163	1.36	1.16	31,611
Area	11.3	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	52.7	52.7	< 0.005	< 0.005	52.9
Energy	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	2,050	2,050	0.28	0.02	2,064
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	27.7	11.4	133	0.31	0.29	28.7	29.0	0.28	7.29	7.56	215	33,364	33,579	23.2	1.23	34,597
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	16.1	11.4	111	0.29	0.20	28.7	28.9	0.19	7.29	7.48	—	29,782	29,782	1.44	1.23	30,185
Area	9.32	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Energy	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	2,050	2,050	0.28	0.02	2,064
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	25.4	12.3	112	0.30	0.27	28.7	29.0	0.26	7.29	7.55	215	31,930	32,145	23.3	1.30	33,118
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	13.4	9.46	93.5	0.25	0.17	23.8	24.0	0.16	6.04	6.20	—	25,177	25,177	1.19	1.02	25,536
Area	10.3	0.06	7.20	< 0.005	0.01	—	0.01	0.01	—	0.01	0.00	26.0	26.0	< 0.005	< 0.005	26.1
Energy	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	2,050	2,050	0.28	0.02	2,064
Water	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Waste	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Total	23.7	10.4	101	0.25	0.25	23.8	24.1	0.24	6.04	6.28	215	27,352	27,566	23.0	1.10	28,496
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	2.44	1.73	17.1	0.05	0.03	4.34	4.37	0.03	1.10	1.13	—	4,168	4,168	0.20	0.17	4,228
Area	1.88	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.30	4.30	< 0.005	< 0.005	4.32
Energy	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	339	339	0.05	< 0.005	342
Water	—	—	—	—	—	—	—	—	—	—	3.30	16.3	19.6	0.34	0.01	30.6
Waste	—	—	—	—	—	—	—	—	—	—	32.3	0.00	32.3	3.23	0.00	113
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35
Total	4.33	1.91	18.5	0.05	0.05	4.34	4.39	0.04	1.10	1.15	35.6	4,528	4,564	3.81	0.18	4,718

### 3. Construction Emissions Details

#### 3.1. Demolition (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	17.3	18.2	0.03	0.79	—	0.79	0.71	—	0.71	—	3,427	3,427	0.14	0.03	3,439
Demolition	—	—	—	—	—	0.54	0.54	—	0.08	0.08	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.95	1.00	< 0.005	0.04	—	0.04	0.04	—	0.04	—	188	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.18	< 0.005	0.01	—	0.01	0.01	—	0.01	—	31.1	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.05	0.05	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	0.01	131
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
Hauling	0.01	0.57	0.22	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	436	436	0.02	0.07	457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	7.26
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
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.9	23.9	< 0.005	< 0.005	25.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	1.20
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
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.96	3.96	< 0.005	< 0.005	4.15

### 3.2. Demolition (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.72	17.3	18.2	0.03	0.12	—	0.12	0.11	—	0.11	—	3,427	3,427	0.14	0.03	3,439
Demolition	—	—	—	—	—	0.54	0.54	—	0.08	0.08	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.04	0.95	1.00	< 0.005	0.01	—	0.01	0.01	—	0.01	—	188	188	0.01	< 0.005	188
Demolition	—	—	—	—	—	0.03	0.03	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.17	0.18	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	31.1	31.1	< 0.005	< 0.005	31.2
Demolition	—	—	—	—	—	0.01	0.01	—	< 0.005	< 0.005	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.05	0.54	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	129	129	0.01	0.01	131
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
Hauling	0.01	0.57	0.22	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	436	436	0.02	0.07	457
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	7.16	7.16	< 0.005	< 0.005	7.26
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
Hauling	< 0.005	0.03	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	23.9	23.9	< 0.005	< 0.005	25.1
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.18	1.18	< 0.005	< 0.005	1.20
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
Hauling	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	3.96	3.96	< 0.005	< 0.005	4.15

## 3.3. Site Preparation (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.90	24.0	28.3	0.05	0.94	—	0.94	0.84	—	0.84	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.63	3.10	0.01	0.10	—	0.10	0.09	—	0.09	—	581	581	0.02	< 0.005	583
Dust From Material Movement	—	—	—	—	—	2.15	2.15	—	1.11	1.11	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.48	0.57	< 0.005	0.02	—	0.02	0.02	—	0.02	—	96.1	96.1	< 0.005	< 0.005	96.5
Dust From Material Movement	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.63	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	151	151	0.01	0.01	153
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	16.9
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	2.80
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
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

### 3.4. Site Preparation (2027) - Mitigated

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

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

Off-Road Equipment	0.90	24.0	28.3	0.05	0.14	—	0.14	0.13	—	0.13	—	5,298	5,298	0.21	0.04	5,316
Dust From Material Movement	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.10	2.63	3.10	0.01	0.02	—	0.02	0.01	—	0.01	—	581	581	0.02	< 0.005	583
Dust From Material Movement	—	—	—	—	—	2.15	2.15	—	1.11	1.11	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.48	0.57	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	96.1	96.1	< 0.005	< 0.005	96.5
Dust From Material Movement	—	—	—	—	—	0.39	0.39	—	0.20	0.20	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.63	0.00	0.00	0.15	0.15	0.00	0.03	0.03	—	151	151	0.01	0.01	153
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

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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.07	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.7	16.7	< 0.005	< 0.005	16.9
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.76	2.76	< 0.005	< 0.005	2.80
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
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

### 3.5. Grading (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	1.60	—	1.60	1.47	—	1.47	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	1.60	—	1.60	1.47	—	1.47	—	22,509	22,509	0.86	0.19	22,588

Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	19.5	68.6	0.10	0.79	—	0.79	0.72	—	0.72	—	11,100	11,100	0.42	0.10	11,139
Dust From Material Movement	—	—	—	—	—	4.54	4.54	—	1.80	1.80	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.55	12.5	0.02	0.14	—	0.14	0.13	—	0.13	—	1,838	1,838	0.07	0.02	1,844
Dust From Material Movement	—	—	—	—	—	0.83	0.83	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	1.02	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	228	228	0.01	0.01	232
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
Hauling	0.01	0.42	0.16	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	351
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.09	0.08	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	216	216	0.01	0.01	219
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
Hauling	0.01	0.44	0.17	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	0.01	< 0.005	109
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
Hauling	< 0.005	0.22	0.08	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	165	165	0.01	0.03	173
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	18.0
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
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.3	27.3	< 0.005	< 0.005	28.6

### 3.6. Grading (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	2.61	39.5	139	0.20	0.24	—	0.24	0.22	—	0.22	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	2.61	39.5	139	0.20	0.24	—	0.24	0.22	—	0.22	—	22,509	22,509	0.86	0.19	22,588
Dust From Material Movement	—	—	—	—	—	9.21	9.21	—	3.65	3.65	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	1.29	19.5	68.6	0.10	0.12	—	0.12	0.11	—	0.11	—	11,100	11,100	0.42	0.10	11,139
Dust From Material Movement	—	—	—	—	—	4.54	4.54	—	1.80	1.80	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.24	3.55	12.5	0.02	0.02	—	0.02	0.02	—	0.02	—	1,838	1,838	0.07	0.02	1,844
Dust From Material Movement	—	—	—	—	—	0.83	0.83	—	0.33	0.33	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.06	1.02	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	228	228	0.01	0.01	232
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
Hauling	0.01	0.42	0.16	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	351

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.90	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	216	216	0.01	0.01	219
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
Hauling	0.01	0.44	0.17	< 0.005	0.01	0.09	0.10	< 0.005	0.02	0.03	—	334	334	0.02	0.05	350
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.04	0.04	0.45	0.00	0.00	0.10	0.10	0.00	0.02	0.02	—	107	107	0.01	< 0.005	109
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
Hauling	< 0.005	0.22	0.08	< 0.005	< 0.005	0.04	0.05	< 0.005	0.01	0.01	—	165	165	0.01	0.03	173
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	17.8	17.8	< 0.005	< 0.005	18.0
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
Hauling	< 0.005	0.04	0.01	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.3	27.3	< 0.005	< 0.005	28.6

### 3.7. Building Construction (2027) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.60	0.77	< 0.005	0.02	—	0.02	0.02	—	0.02	—	124	124	0.01	< 0.005	125
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	20.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.38	4.47	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,071	1,071	0.06	0.04	1,086
Vendor	0.04	1.43	0.66	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,094	1,094	0.04	0.15	1,140
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	61.3	61.3	< 0.005	< 0.005	62.2
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.0	62.0	< 0.005	0.01	64.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	10.3
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

### 3.8. Building Construction (2027) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.60	0.77	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	124	124	0.01	< 0.005	125
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	0.11	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.6	20.6	< 0.005	< 0.005	20.6
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.43	0.38	4.47	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,071	1,071	0.06	0.04	1,086
Vendor	0.04	1.43	0.66	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,094	1,094	0.04	0.15	1,140
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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.26	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	61.3	61.3	< 0.005	< 0.005	62.2
Vendor	< 0.005	0.08	0.04	< 0.005	< 0.005	0.02	0.02	< 0.005	< 0.005	0.01	—	62.0	62.0	< 0.005	0.01	64.8
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.2	10.2	< 0.005	< 0.005	10.3
Vendor	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	10.7
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00

### 3.9. Building Construction (2028) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.61	9.66	0.01	0.30	—	0.30	0.27	—	0.27	—	1,569	1,569	0.06	0.01	1,574

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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.06	—	0.06	0.05	—	0.05	—	260	260	0.01	< 0.005	261
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.30	4.81	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,114	1,114	0.02	0.04	1,130
Vendor	0.04	1.31	0.62	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,065	1,065	0.04	0.15	1,114
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.35	4.21	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,052	1,052	0.02	0.04	1,065
Vendor	0.04	1.36	0.64	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,066	1,066	0.04	0.15	1,113
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.25	3.06	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	760	760	0.02	0.03	771
Vendor	0.03	0.97	0.45	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	763	763	0.03	0.11	797
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	128
Vendor	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	126	126	< 0.005	0.02	132
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

### 3.10. Building Construction (2028) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,190	2,190	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.61	9.66	0.01	0.05	—	0.05	0.04	—	0.04	—	1,569	1,569	0.06	0.01	1,574
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.01	< 0.005	261
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.30	4.81	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,114	1,114	0.02	0.04	1,130
Vendor	0.04	1.31	0.62	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,065	1,065	0.04	0.15	1,114

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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.42	0.35	4.21	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,052	1,052	0.02	0.04	1,065
Vendor	0.04	1.36	0.64	0.01	0.02	0.29	0.31	0.02	0.08	0.10	—	1,066	1,066	0.04	0.15	1,113
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.30	0.25	3.06	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	760	760	0.02	0.03	771
Vendor	0.03	0.97	0.45	0.01	0.01	0.21	0.22	0.01	0.06	0.07	—	763	763	0.03	0.11	797
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.56	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	126	126	< 0.005	< 0.005	128
Vendor	< 0.005	0.18	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	126	126	< 0.005	0.02	132
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

### 3.11. Building Construction (2029) - Unmitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,189	2,189	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.37	10.6	13.5	0.02	0.42	—	0.42	0.38	—	0.38	—	2,189	2,189	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.59	9.63	0.01	0.30	—	0.30	0.27	—	0.27	—	1,564	1,564	0.06	0.01	1,569
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.05	—	0.05	0.05	—	0.05	—	259	259	0.01	< 0.005	260
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.27	4.54	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,095	1,095	0.02	0.04	1,111
Vendor	0.04	1.25	0.61	0.01	0.02	0.29	0.31	0.01	0.08	0.09	—	1,035	1,035	0.04	0.15	1,081
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.31	3.96	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,034	1,034	0.02	0.04	1,047
Vendor	0.03	1.30	0.61	0.01	0.02	0.29	0.31	0.01	0.08	0.09	—	1,036	1,036	0.04	0.15	1,080
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.22	2.87	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	745	745	0.01	0.03	755
Vendor	0.03	0.92	0.44	0.01	0.01	0.21	0.22	0.01	0.06	0.06	—	740	740	0.03	0.10	772
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.52	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	125
Vendor	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	128
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

### 3.12. Building Construction (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,189	2,189	0.09	0.02	2,197
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.37	10.6	13.5	0.02	0.06	—	0.06	0.06	—	0.06	—	2,189	2,189	0.09	0.02	2,197
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.27	7.59	9.63	0.01	0.05	—	0.05	0.04	—	0.04	—	1,564	1,564	0.06	0.01	1,569
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	1.39	1.76	< 0.005	0.01	—	0.01	0.01	—	0.01	—	259	259	0.01	< 0.005	260

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.41	0.27	4.54	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,095	1,095	0.02	0.04	1,111
Vendor	0.04	1.25	0.61	0.01	0.02	0.29	0.31	0.01	0.08	0.09	—	1,035	1,035	0.04	0.15	1,081
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.40	0.31	3.96	0.00	0.00	1.05	1.05	0.00	0.25	0.25	—	1,034	1,034	0.02	0.04	1,047
Vendor	0.03	1.30	0.61	0.01	0.02	0.29	0.31	0.01	0.08	0.09	—	1,036	1,036	0.04	0.15	1,080
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.28	0.22	2.87	0.00	0.00	0.74	0.74	0.00	0.17	0.17	—	745	745	0.01	0.03	755
Vendor	0.03	0.92	0.44	0.01	0.01	0.21	0.22	0.01	0.06	0.06	—	740	740	0.03	0.10	772
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.52	0.00	0.00	0.14	0.14	0.00	0.03	0.03	—	123	123	< 0.005	< 0.005	125
Vendor	< 0.005	0.17	0.08	< 0.005	< 0.005	0.04	0.04	< 0.005	0.01	0.01	—	122	122	< 0.005	0.02	128
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

### 3.13. Paving (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	8.62	10.6	0.01	0.39	—	0.39	0.36	—	0.36	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.02	1.25	< 0.005	0.05	—	0.05	0.04	—	0.04	—	178	178	0.01	< 0.005	179
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.23	< 0.005	0.01	—	0.01	0.01	—	0.01	—	29.5	29.5	< 0.005	< 0.005	29.6
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	127
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
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

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	15.1
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	2.49
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
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

### 3.14. Paving (2029) - Mitigated

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

Location	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.32	8.62	10.6	0.01	0.06	—	0.06	0.05	—	0.05	—	1,511	1,511	0.06	0.01	1,516
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	1.02	1.25	< 0.005	0.01	—	0.01	0.01	—	0.01	—	178	178	0.01	< 0.005	179
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.19	0.23	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	29.5	29.5	< 0.005	< 0.005	29.6
Paving	0.00	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.05	0.04	0.48	0.00	0.00	0.13	0.13	0.00	0.03	0.03	—	125	125	< 0.005	< 0.005	127
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	14.9	14.9	< 0.005	< 0.005	15.1
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.46	2.46	< 0.005	< 0.005	2.49
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
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

### 3.15. Architectural Coating (2029) - Unmitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	5.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.91	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	219	219	< 0.005	0.01	222
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.79	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	209
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.3	62.3	< 0.005	< 0.005	63.2
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	10.5
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
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

### 3.16. Architectural Coating (2029) - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	19.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	5.89	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.00	0.00	0.00	0.00	NaN	—	NaN	NaN	—	NaN	—	0.00	0.00	0.00	0.00	0.00
Architectural Coatings	1.07	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

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
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.05	0.91	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	219	219	< 0.005	0.01	222
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
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
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.06	0.79	0.00	0.00	0.21	0.21	0.00	0.05	0.05	—	207	207	< 0.005	0.01	209
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
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
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.24	0.00	0.00	0.06	0.06	0.00	0.01	0.01	—	62.3	62.3	< 0.005	< 0.005	63.2
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
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
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	10.3	10.3	< 0.005	< 0.005	10.5
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
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

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.54	2.15	24.2	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	6,275	6,275	0.29	0.24	6,367
City Park	1.48	0.96	10.9	0.03	0.02	2.66	2.68	0.02	0.68	0.69	—	2,885	2,885	0.12	0.11	2,926
High School	11.3	7.29	83.0	0.22	0.14	20.3	20.4	0.13	5.15	5.28	—	22,003	22,003	0.95	0.81	22,317
Total	16.3	10.4	118	0.31	0.20	28.7	28.9	0.19	7.29	7.48	—	31,163	31,163	1.36	1.16	31,611
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.48	2.36	23.0	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	5,998	5,998	0.30	0.25	6,081
City Park	1.46	1.05	10.2	0.03	0.02	2.66	2.68	0.02	0.68	0.69	—	2,757	2,757	0.13	0.11	2,794
High School	11.1	8.00	78.1	0.21	0.14	20.3	20.4	0.13	5.15	5.28	—	21,027	21,027	1.01	0.86	21,310
Total	16.1	11.4	111	0.29	0.20	28.7	28.9	0.19	7.29	7.48	—	29,782	29,782	1.44	1.23	30,185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.63	0.42	4.18	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,000	1,000	0.05	0.04	1,014
City Park	0.26	0.19	1.87	< 0.005	< 0.005	0.48	0.48	< 0.005	0.12	0.12	—	460	460	0.02	0.02	466
High School	1.55	1.11	11.0	0.03	0.02	2.82	2.85	0.02	0.72	0.74	—	2,709	2,709	0.13	0.11	2,747
Total	2.44	1.73	17.1	0.05	0.03	4.34	4.37	0.03	1.10	1.13	—	4,168	4,168	0.20	0.17	4,228

#### 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	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.54	2.15	24.2	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	6,275	6,275	0.29	0.24	6,367
City Park	1.48	0.96	10.9	0.03	0.02	2.66	2.68	0.02	0.68	0.69	—	2,885	2,885	0.12	0.11	2,926
High School	11.3	7.29	83.0	0.22	0.14	20.3	20.4	0.13	5.15	5.28	—	22,003	22,003	0.95	0.81	22,317
Total	16.3	10.4	118	0.31	0.20	28.7	28.9	0.19	7.29	7.48	—	31,163	31,163	1.36	1.16	31,611
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	3.48	2.36	23.0	0.06	0.04	5.77	5.81	0.04	1.46	1.50	—	5,998	5,998	0.30	0.25	6,081
City Park	1.46	1.05	10.2	0.03	0.02	2.66	2.68	0.02	0.68	0.69	—	2,757	2,757	0.13	0.11	2,794
High School	11.1	8.00	78.1	0.21	0.14	20.3	20.4	0.13	5.15	5.28	—	21,027	21,027	1.01	0.86	21,310
Total	16.1	11.4	111	0.29	0.20	28.7	28.9	0.19	7.29	7.48	—	29,782	29,782	1.44	1.23	30,185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.63	0.42	4.18	0.01	0.01	1.04	1.05	0.01	0.26	0.27	—	1,000	1,000	0.05	0.04	1,014
City Park	0.26	0.19	1.87	< 0.005	< 0.005	0.48	0.48	< 0.005	0.12	0.12	—	460	460	0.02	0.02	466
High School	1.55	1.11	11.0	0.03	0.02	2.82	2.85	0.02	0.72	0.74	—	2,709	2,709	0.13	0.11	2,747
Total	2.44	1.73	17.1	0.05	0.03	4.34	4.37	0.03	1.10	1.13	—	4,168	4,168	0.20	0.17	4,228

## 4.2. Energy

### 4.2.1. Electricity Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	254	254	0.05	0.01	257
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	688	688	0.13	0.02	696
Total	—	—	—	—	—	—	—	—	—	—	—	942	942	0.18	0.02	953
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	254	254	0.05	0.01	257
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	688	688	0.13	0.02	696
Total	—	—	—	—	—	—	—	—	—	—	—	942	942	0.18	0.02	953
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	42.1	42.1	0.01	< 0.005	42.6
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	114	114	0.02	< 0.005	115
Total	—	—	—	—	—	—	—	—	—	—	—	156	156	0.03	< 0.005	158

4.2.2. Electricity Emissions By Land Use - Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	256	256	0.05	0.01	259
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	688	688	0.13	0.02	696
Total	—	—	—	—	—	—	—	—	—	—	—	943	943	0.18	0.02	954
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	256	256	0.05	0.01	259
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	688	688	0.13	0.02	696
Total	—	—	—	—	—	—	—	—	—	—	—	943	943	0.18	0.02	954
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	42.3	42.3	0.01	< 0.005	42.8
City Park	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	114	114	0.02	< 0.005	115
Total	—	—	—	—	—	—	—	—	—	—	—	156	156	0.03	< 0.005	158

#### 4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
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Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.04	0.64	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	813	813	0.07	< 0.005	816
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Total	0.09	1.57	1.05	0.01	0.12	—	0.12	0.12	—	0.12	—	1,920	1,920	0.17	< 0.005	1,926
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.04	0.64	0.27	< 0.005	0.05	—	0.05	0.05	—	0.05	—	813	813	0.07	< 0.005	816
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Total	0.09	1.57	1.05	0.01	0.12	—	0.12	0.12	—	0.12	—	1,920	1,920	0.17	< 0.005	1,926
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.01	0.12	0.05	< 0.005	0.01	—	0.01	0.01	—	0.01	—	135	135	0.01	< 0.005	135
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	184
Total	0.02	0.29	0.19	< 0.005	0.02	—	0.02	0.02	—	0.02	—	318	318	0.03	< 0.005	319

#### 4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

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

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Total	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Total	0.05	0.93	0.78	0.01	0.07	—	0.07	0.07	—	0.07	—	1,107	1,107	0.10	< 0.005	1,110
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
City Park	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	0.00
High School	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	184
Total	0.01	0.17	0.14	< 0.005	0.01	—	0.01	0.01	—	0.01	—	183	183	0.02	< 0.005	184

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	2.00	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	—	52.7	52.7	< 0.005	< 0.005	52.9
Total	11.3	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	52.7	52.7	< 0.005	< 0.005	52.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.32	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscap Equipment	0.18	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.30	4.30	< 0.005	< 0.005	4.32
Total	1.88	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.30	4.30	< 0.005	< 0.005	4.32

### 4.3.2. Mitigated

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

Source	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscap Equipment	2.00	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	—	52.7	52.7	< 0.005	< 0.005	52.9
Total	11.3	0.13	14.6	< 0.005	0.02	—	0.02	0.01	—	0.01	0.00	52.7	52.7	< 0.005	< 0.005	52.9
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	8.73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	9.32	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Hearths	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Consumer Products	1.59	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	0.11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.18	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	4.30	4.30	< 0.005	< 0.005	4.32
Total	1.88	0.01	1.31	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	4.30	4.30	< 0.005	< 0.005	4.32

#### 4.4. Water Emissions by Land Use

##### 4.4.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.99	56.9	62.8	0.63	0.02	83.2
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
High School	—	—	—	—	—	—	—	—	—	—	14.0	25.1	39.0	1.44	0.03	85.2
Total	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.99	56.9	62.8	0.63	0.02	83.2

City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
High School	—	—	—	—	—	—	—	—	—	—	14.0	25.1	39.0	1.44	0.03	85.2
Total	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.99	9.41	10.4	0.10	< 0.005	13.8
City Park	—	—	—	—	—	—	—	—	—	—	0.00	2.71	2.71	< 0.005	< 0.005	2.74
High School	—	—	—	—	—	—	—	—	—	—	2.31	4.15	6.46	0.24	0.01	14.1
Total	—	—	—	—	—	—	—	—	—	—	3.30	16.3	19.6	0.34	0.01	30.6

#### 4.4.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.99	56.9	62.8	0.63	0.02	83.2
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6
High School	—	—	—	—	—	—	—	—	—	—	14.0	25.1	39.0	1.44	0.03	85.2
Total	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.99	56.9	62.8	0.63	0.02	83.2
City Park	—	—	—	—	—	—	—	—	—	—	0.00	16.4	16.4	< 0.005	< 0.005	16.6

High School	—	—	—	—	—	—	—	—	—	—	14.0	25.1	39.0	1.44	0.03	85.2
Total	—	—	—	—	—	—	—	—	—	—	19.9	98.3	118	2.06	0.05	185
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	0.99	9.41	10.4	0.10	< 0.005	13.8
City Park	—	—	—	—	—	—	—	—	—	—	0.00	2.71	2.71	< 0.005	< 0.005	2.74
High School	—	—	—	—	—	—	—	—	—	—	2.31	4.15	6.46	0.24	0.01	14.1
Total	—	—	—	—	—	—	—	—	—	—	3.30	16.3	19.6	0.34	0.01	30.6

## 4.5. Waste Emissions by Land Use

### 4.5.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	111
City Park	—	—	—	—	—	—	—	—	—	—	0.74	0.00	0.74	0.07	0.00	2.59
High School	—	—	—	—	—	—	—	—	—	—	163	0.00	163	16.2	0.00	569
Total	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	111

City Park	—	—	—	—	—	—	—	—	—	—	0.74	0.00	0.74	0.07	0.00	2.59
High School	—	—	—	—	—	—	—	—	—	—	163	0.00	163	16.2	0.00	569
Total	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.25	0.00	5.25	0.52	0.00	18.4
City Park	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	0.43
High School	—	—	—	—	—	—	—	—	—	—	26.9	0.00	26.9	2.69	0.00	94.2
Total	—	—	—	—	—	—	—	—	—	—	32.3	0.00	32.3	3.23	0.00	113

4.5.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	111
City Park	—	—	—	—	—	—	—	—	—	—	0.74	0.00	0.74	0.07	0.00	2.59
High School	—	—	—	—	—	—	—	—	—	—	163	0.00	163	16.2	0.00	569
Total	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	31.7	0.00	31.7	3.17	0.00	111
City Park	—	—	—	—	—	—	—	—	—	—	0.74	0.00	0.74	0.07	0.00	2.59

High School	—	—	—	—	—	—	—	—	—	—	163	0.00	163	16.2	0.00	569
Total	—	—	—	—	—	—	—	—	—	—	195	0.00	195	19.5	0.00	682
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	5.25	0.00	5.25	0.52	0.00	18.4
City Park	—	—	—	—	—	—	—	—	—	—	0.12	0.00	0.12	0.01	0.00	0.43
High School	—	—	—	—	—	—	—	—	—	—	26.9	0.00	26.9	2.69	0.00	94.2
Total	—	—	—	—	—	—	—	—	—	—	32.3	0.00	32.3	3.23	0.00	113

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.24
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.24

City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35

4.6.2. Mitigated

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

Land Use	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.24
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1.24
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00

High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.85
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.09
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Single Family Housing	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.21
City Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.00
High School	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.14
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.35

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

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

Equipment Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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)

Equipme Type	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	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)

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

##### 4.8.2. Mitigated

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

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

## 4.9. User Defined Emissions By Equipment Type

## 4.9.1. Unmitigated

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

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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

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

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

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

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

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

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

#### 4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

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

## 5. Activity Data

### 5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	1/1/2027	1/28/2027	5.00	20.0	—
Site Preparation	Site Preparation	1/29/2027	3/25/2027	5.00	40.0	—
Grading	Grading	3/26/2027	12/2/2027	5.00	180	—
Building Construction	Building Construction	12/3/2027	12/31/2029	5.00	542	—

Paving	Paving	11/1/2029	12/31/2029	5.00	43.0	—
Architectural Coating	Architectural Coating	8/1/2029	12/31/2029	5.00	109	—

## 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	Tier 3	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 3	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 3	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Tier 3	1.00	8.00	83.0	0.50
Grading	Crushing/Proc. Equipment	Diesel	Average	1.00	8.00	310	5.00
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42

Paving	Paving Equipment	Diesel	Tier 3	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48

### 5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Concrete/Industrial Saws	Diesel	Tier 3	1.00	8.00	33.0	0.73
Demolition	Excavators	Diesel	Tier 3	3.00	8.00	36.0	0.38
Demolition	Rubber Tired Dozers	Diesel	Tier 3	2.00	8.00	367	0.40
Site Preparation	Rubber Tired Dozers	Diesel	Tier 3	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Back hoes	Diesel	Tier 3	4.00	8.00	84.0	0.37
Grading	Excavators	Diesel	Tier 3	2.00	8.00	36.0	0.38
Grading	Graders	Diesel	Tier 3	1.00	8.00	148	0.41
Grading	Rubber Tired Dozers	Diesel	Tier 3	1.00	8.00	367	0.40
Grading	Scrapers	Diesel	Tier 3	2.00	8.00	423	0.48
Grading	Tractors/Loaders/Back hoes	Diesel	Tier 3	2.00	8.00	84.0	0.37
Grading	Bore/Drill Rigs	Diesel	Tier 3	1.00	8.00	83.0	0.50
Grading	Crushing/Proc. Equipment	Diesel	Average	1.00	8.00	310	5.00
Building Construction	Cranes	Diesel	Tier 3	1.00	7.00	367	0.29
Building Construction	Forklifts	Diesel	Tier 3	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 3	1.00	8.00	14.0	0.74
Building Construction	Tractors/Loaders/Back hoes	Diesel	Tier 3	3.00	7.00	84.0	0.37
Building Construction	Welders	Electric	Average	1.00	8.00	46.0	0.45
Paving	Pavers	Diesel	Tier 3	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 3	2.00	8.00	89.0	0.36

Paving	Rollers	Diesel	Tier 3	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Electric	Average	1.00	6.00	37.0	0.48

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	6.35	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	4.86	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	124	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	45.5	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—

Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	24.8	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

### 5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	12.0	LDA,LDT1,LDT2
Demolition	Vendor	—	7.63	HHDT,MHDT
Demolition	Hauling	6.35	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	12.0	LDA,LDT1,LDT2
Site Preparation	Vendor	—	7.63	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	25.0	12.0	LDA,LDT1,LDT2
Grading	Vendor	—	7.63	HHDT,MHDT
Grading	Hauling	4.86	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—

Building Construction	Worker	124	12.0	LDA,LDT1,LDT2
Building Construction	Vendor	45.5	7.63	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	12.0	LDA,LDT1,LDT2
Paving	Vendor	—	7.63	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	24.8	12.0	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	7.63	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	351,439	117,146	343,934	114,645	—

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Building Square Footage)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	11,000	—
Site Preparation	—	—	60.0	0.00	—
Grading	—	7,000	540	0.00	—
Paving	0.00	0.00	0.00	0.00	0.98

## 5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

## 5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Single Family Housing	0.98	0%
City Park	0.00	0%
High School	0.00	0%

## 5.8. Construction Electricity Consumption and Emissions Factors

### kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2027	123	589	0.03	< 0.005
2028	123	589	0.03	< 0.005
2029	203	589	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
Single Family Housing	1,082	1,082	1,082	395,018	8,174	8,174	8,174	2,983,539

City Park	440	440	440	160,600	3,770	3,770	3,770	1,376,219
High School	3,356	959	413	946,390	28,755	8,216	3,541	8,109,837

### 5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Single Family Housing	1,082	1,082	1,082	395,018	8,174	8,174	8,174	2,983,539
City Park	440	440	440	160,600	3,770	3,770	3,770	1,376,219
High School	3,356	959	413	946,390	28,755	8,216	3,541	8,109,837

## 5.10. Operational Area Sources

### 5.10.1. Hearths

#### 5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	89
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

#### 5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Single Family Housing	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	89
Conventional Wood Stoves	0
Catalytic Wood Stoves	0
Non-Catalytic Wood Stoves	0
Pellet Wood Stoves	0

### 5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
351438.75	117,146	343,934	114,645	—

### 5.10.3. Landscape Equipment

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

### 5.10.4. Landscape Equipment - Mitigated

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

## 5.11. Operational Energy Consumption

### 5.11.1. Unmitigated

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

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Single Family Housing	546,574	170	0.0330	0.0040	2,538,007
City Park	0.00	170	0.0330	0.0040	0.00
High School	1,479,310	170	0.0330	0.0040	3,453,649

### 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)
Single Family Housing	549,800	170	0.0330	0.0040	0.00
City Park	0.00	170	0.0330	0.0040	0.00
High School	1,479,310	170	0.0330	0.0040	3,453,649

## 5.12. Operational Water and Wastewater Consumption

### 5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,126,844	19,040,332
City Park	0.00	6,641,851
High School	7,281,399	830,231

### 5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Single Family Housing	3,126,844	19,040,332

City Park	0.00	6,641,851
High School	7,281,399	830,231

## 5.13. Operational Waste Generation

### 5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	58.8	—
City Park	1.38	—
High School	302	—

### 5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Single Family Housing	58.8	—
City Park	1.38	—
High School	302	—

## 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
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0

City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00
High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

#### 5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Served
Single Family Housing	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Single Family Housing	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
City Park	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
City Park	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
High School	Household refrigerators and/or freezers	R-134a	1,430	0.02	0.60	0.00	1.00
High School	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
High School	Stand-alone retail refrigerators and freezers	R-134a	1,430	< 0.005	1.00	0.00	1.00

High School	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
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## 5.15. Operational Off-Road Equipment

### 5.15.1. Unmitigated

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

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

### 5.16.1. Emergency Generators and Fire Pumps

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

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

Equipment Type	Fuel Type
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## 5.18. Vegetation

### 5.18.1. Land Use Change

#### 5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres
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### 5.18.1.2. Mitigated

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

#### 5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres
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#### 5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres
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### 5.18.2. Sequestration

#### 5.18.2.1. Unmitigated

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

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)
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## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
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Temperature and Extreme Heat	14.7	annual days of extreme heat
Extreme Precipitation	5.15	annual days with precipitation above 20 mm
Sea Level Rise	—	meters of inundation depth
Wildfire	10.5	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

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

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

## 6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	N/A	N/A	N/A	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	0	0	0	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	N/A	N/A	N/A	N/A

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

## 6.3. Adjusted Climate Risk Scores

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

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

The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.

The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

## 6.4. Climate Risk Reduction Measures

# 7. Health and Equity Details

## 7.1. CalEnviroScreen 4.0 Scores

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

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	42.6
AQ-PM	19.7
AQ-DPM	26.7
Drinking Water	24.2
Lead Risk Housing	16.8
Pesticides	66.9
Toxic Releases	19.2

Traffic	17.5
Effect Indicators	—
CleanUp Sites	33.9
Groundwater	0.00
Haz Waste Facilities/Generators	52.6
Impaired Water Bodies	43.8
Solid Waste	67.6
Sensitive Population	—
Asthma	7.78
Cardio-vascular	21.9
Low Birth Weights	57.6
Socioeconomic Factor Indicators	—
Education	40.1
Housing	18.9
Linguistic	33.9
Poverty	9.27
Unemployment	53.9

## 7.2. Healthy Places Index Scores

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

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	69.66508405
Employed	40.65186706
Median HI	76.83818812
Education	—
Bachelor's or higher	68.16373669
High school enrollment	20.74939048

Preschool enrollment	62.73578853
Transportation	—
Auto Access	98.98626973
Active commuting	32.86282561
Social	—
2-parent households	70.47350186
Voting	76.18375465
Neighborhood	—
Alcohol availability	91.91582189
Park access	53.67637624
Retail density	14.83382523
Supermarket access	17.56704735
Tree canopy	19.82548441
Housing	—
Homeownership	87.93789298
Housing habitability	80.5338124
Low-inc homeowner severe housing cost burden	50.00641601
Low-inc renter severe housing cost burden	61.01629668
Uncrowded housing	70.21686129
Health Outcomes	—
Insured adults	70.06287694
Arthritis	81.7
Asthma ER Admissions	90.9
High Blood Pressure	90.4
Cancer (excluding skin)	63.4
Asthma	69.3
Coronary Heart Disease	87.2
Chronic Obstructive Pulmonary Disease	76.7

Diagnosed Diabetes	79.4
Life Expectancy at Birth	85.3
Cognitively Disabled	78.9
Physically Disabled	94.1
Heart Attack ER Admissions	88.4
Mental Health Not Good	61.1
Chronic Kidney Disease	85.5
Obesity	71.5
Pedestrian Injuries	42.0
Physical Health Not Good	74.9
Stroke	88.3
Health Risk Behaviors	—
Binge Drinking	16.3
Current Smoker	61.3
No Leisure Time for Physical Activity	65.6
Climate Change Exposures	—
Wildfire Risk	53.8
SLR Inundation Area	0.0
Children	14.1
Elderly	76.6
English Speaking	35.0
Foreign-born	48.4
Outdoor Workers	72.6
Climate Change Adaptive Capacity	—
Impervious Surface Cover	74.4
Traffic Density	32.8
Traffic Access	23.0
Other Indices	—

Hardship	40.9
Other Decision Support	—
2016 Voting	79.5

### 7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	19.0
Healthy Places Index Score for Project Location (b)	71.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

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

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

Screen	Justification
Land Use	Per PD
Construction: Construction Phases	Construction Schedule
Operations: Vehicle Data	Updated to reflect PD
Operations: Hearths	No Hearth options will be installed
Construction: Off-Road Equipment	CE - T3 Design Feature

Construction: Off-Road Equipment EF

Updated Crusher to mach proposed equipment