



# Air Quality and Greenhouse Gas Technical Report

*Dogwood Geothermal Energy Project*  
*Heber 2 Solar Energy Project*  
*Heber Field Company Geothermal Wells & Pipeline Project*

Prepared for: Imperial County Planning & Development Services

July 16, 2024

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Attachment A. CalEEMod Air Quality and GHG Emission Data

## SECTION 1 Introduction

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Catalyst Environmental Solutions Corporation (Catalyst) has prepared this report to evaluate the potential for impacts related to air quality and greenhouse gas (GHG) resulting from implementation of the proposed Dogwood Geothermal Energy Project, Heber 2 Parasitic Solar Project, and the Heber Field Company Geothermal Wells and Pipeline Project (collectively, the Project) in the Imperial County, California. This report includes an evaluation of potential impacts associated with construction and operational air emissions and whether Project-induced emissions are in excess of standards established by the applicable local jurisdiction (i.e., Imperial County Air Pollution Control District). Site-specific construction and operations activity information used for air emissions models are based on information provided by ORMAT.

### 1.1 Project Overview

#### 1.1.1 Project Location and Description

The Project entails the development of a new 25 megawatt (MW; net generation) geothermal power plant supported by a 7 MW parasitic solar energy facility (Dogwood Project); a 15 MW parasitic solar energy facility for the existing Heber 2 geothermal plant (Heber 2 Parasitic Solar Project); and, up to six geothermal production wells, one injection well, and supporting pipeline segment (Heber Field Company Wells & Pipeline Project). Proposed facilities include:

- **Dogwood Project (OrHeber 3, LLC) – CUP No. 23-0020**
  - One (1) Integrated Two Level Unit (ITLU) Air Cooled ORMAT Energy Converter (OEC) generating unit
  - Two (2) 20,000-Gallon Isopentane Tanks for Motive Fluid Storage
  - One (1) Project substation for transmission to the grid
  - Ancillary and auxiliary facilities (including, compressed air system and fire prevention system)
  - A seven (7) megawatt (MW) solar photovoltaic field dedicated to the Dogwood geothermal plant
  - Interconnecting cable line from Dogwood solar facilities to Dogwood geothermal plant
- **Heber 2 Parasitic Solar Energy Facilities (Second Imperial Geothermal Company) – CUP No. 23-0021**
  - A fifteen (15) MW solar photovoltaic field dedicated to the Heber 2 geothermal plant
  - Interconnecting cable line from Heber 2 solar facilities to Heber 2 geothermal plant
- **Wells and Pipeline (Heber Field Company, LLC) – CUP No. 23-0022**
  - Up to six (6) new production wells (3 sited, 3 unsited)

- One (1) new injection well
- Brine pipelines

Proposed developments would occur on APN 054-250-31; APN 059-020-001; APN 054-250-017, near the existing geothermal energy complex located at 855 Dogwood Road, Heber, California. The Project Site(s) is within the Imperial County Geothermal Overlay Zone that allows for Major Geothermal Projects to be permitted via a Conditional use Permit (CUP) process (Imperial County General Plan; Renewable Energy and Transmission Element of County of Imperial General Plan, 2015).

photovoltaic field exclusively dedicated to the Heber 2 geothermal plant.

The Project would rely on fluid from the existing well field and new production wells proposed by the Heber Field Company (HFC), which owns and operates the wells that service the Heber 2, Heber South, and Goulds 2 facilities. Three new production wells will be split between two locations (two in APN 059-020-001 and one in APN 054-250-017), and a 1000-foot brine pipeline would be constructed in the solar field (APN 059-020-001). HFC also proposes to utilize the existing available injection capacity from an existing well on-site and build one new injection well that would be installed adjacent to the Dogwood geothermal facility. HFC would install new connections and pipeline segments to connect the Project with the new and existing well system. The total project area of disturbance from the proposed development is approximately 124 acres as summarized in **Table 1**.

Table 1. Dogwood Project Area of Disturbance Estimates

| Facility   | Disturbance (Acres) |
|--|---------------------|
| Geothermal Energy Facilities and Project Substation    | 5.0 acres           |
| Solar Field and Connection Line                        | ~ 95 acres          |
| Production and Injection Wells and Connecting Pipeline | ~ 24 acres          |
| <b>TOTAL</b>   | <b>124 acres</b>    |

### 1.1.2 Dogwood Geothermal Energy Project

#### 1.1.3 Geothermal Production and Injection Wells

Production wells flow geothermal fluid to the surface, and injection wells are used to inject geothermal fluid from the energy plant back into the geothermal reservoir. Injection ensures the longevity and renewability of the geothermal resource. The Applicant proposes to develop up to six geothermal production wells, all within the Imperial County Geothermal Overlay Zone. The location of three of the production wells are known at this time and the remaining wells will be sited within the same APNs 059-020-001 and 054-250-017. The injection well would be installed within the HGEC, immediately next to the proposed Dogwood OEC (separate CUP application).

During well installation, each well pad would accommodate a drilling rig, support equipment, portable bathroom, baker tanks, and project vehicles. Each well pad would be prepared to create a level pad for the drill rig and a graded surface for the support equipment. Each well would be drilled with a rotary drill rig similar to those used to drill oil and gas wells. The production wells would each be drilled and cased to a design depth of approximately 5,000 feet. Following the cementing of the surface casing, blowout prevention equipment (BOPE) would be installed. During drilling operations, a minimum of

10,000 gallons of cool water and 12,000 pounds of inert, non-toxic barite (barium sulfate) would be stored at each well pad (as appropriate for the type of material) for use in preventing uncontrolled well flow, as necessary.

Once the well is completed, a well head will be installed and connected to the pipeline network to convey geothermal fluids. A motor control building would be installed next to the well head to provide system controls, sensors, and treatment systems. During normal well field operations, total geothermal fluid production rates are expected to be approximately 15,150 gallons per minute (gpm) at 280°F. Injection would occur at the same approximate levels (i.e., 15,150 gpm) but at lower temperatures of near 170°F.

#### 1.1.4 Geothermal Fluid Pipeline

Approximately 4,500 feet (0.85 miles) of geothermal fluid production pipeline are proposed for installation on APN 059-020-001. This new segment of pipeline will connect to an existing pipeline collection point that will deliver the geothermal brine to the proposed Dogwood OEC. The well on APN 054-250-017 would connect to the existing pipeline segment adjacent to the proposed well pad site. The pipeline would be used to transport geothermal fluid from the production wells to the power plants.

Construction of the pipeline network would begin by vertically auguring nominal 24-inch diameter holes into the ground about three to five feet deep at approximately 30-foot intervals along the pipeline route. Two holes for pipeline supports would be drilled at each anchor point. Dirt removed from the holes would be cast on the ground adjacent to each hole. The steel pipe “sleeper” would be placed in the hole and concrete poured to fill the hole slightly above the ground surface.

After the anchor points are installed, approximately 30-foot-long steel pipe sections would be delivered and placed along the pipeline construction corridor. A small crane would lift the pipe sections onto the pipe supports and temporary pipe jacks so that they could be welded together into a solid pipeline. Once welded and the welds tested, the pipe would be jacketed with insulation and an aluminum sheath (appropriately colored, likely covert green, to blend with the area).

When completed, the top of the new geothermal pipelines would average three to four feet above the ground surface to accommodate terrain undulations and to facilitate movement of wildlife. Electrical power and instrumentation cables for the wells would then either be installed in steel conduit constructed along the pipe or hung by cable from pipe along the pipeline route.

#### 1.1.5 ORMAT Energy Converter (OEC)

The proposed OEC unit is a two-turbine combined cycle binary unit, operating on a subcritical Rankine cycle, with isopentane as the motive fluid. The OEC system consists of a generator, turbines, a vaporizer, Air-Cooled condensers, preheaters and recuperators, and an evacuation skid/vapor recovery maintenance unit (VRMU) for purging and maintenance events. The design capacity for the unit is 25 MW (net).

#### 1.1.6 Isopentane Storage Tanks

Two double-walled 20,000-gallon above-ground storage tanks (AST) will be installed for the Project. Numerous safety and fire prevention measures will be installed on/near the isopentane tanks, including:

- Concrete foundations with blast walls separating the tanks from the OEC
- An automated water suppression system.
- Concrete containment areas.
- Two flame detectors, which will immediately detect any fire and immediately trigger the automatic fire suppression system.
- A gas detector, which will immediately detect any isopentane leak and notify the control room (manned by 24/7).

### 1.1.7 Cooling Tower

A cooling tower array will perform air-cooling operations of the geothermal fluid. The cooling tower will include a series of heat-absorbing evaporators and condensers to capture and transfer heat stored in the geothermal fluid. The dry cooling tower array does not result in water evaporation, hence there are no associated emissions of particulate matter associated with operation of these types of units as there are with wet cooling towers.

### 1.1.8 Supplemental Solar Energy Plants

An approximately 7 MW (net) solar photovoltaic field would provide power directly to the Dogwood Project to offset auxiliary/parasitic loads during operations. A 15 MW solar field would also provide supplemental/auxiliary energy to the existing Heber 2 geothermal plant. The solar arrays will effectively reduce the margin between gross and net geothermal energy generation, allowing for the more efficient generation of geothermal energy.

### 1.1.9 Project Substation

The Project will require a new substation to step up the low voltage electrical energy generated at the Dogwood geothermal unit to the higher voltage required for commercial transmission. No upgrades to off-site transmission facilities are necessary and the new Dogwood substation will connect directly to the existing point of interconnection with the Imperial Irrigation District (IID) controlled grid. The substation will include a 13.8 kV circuit breaker to protect the electric generator, a minimum of 80 megavolt ampere 13.8 kV/115 kV transformer, and 115 kV potential and current transformers for metering and system protection. A main control building would contain instrumentation and telecommunications equipment.

The substation footprint would measure up to 145 feet by 66 feet and would be surrounded by an eight-foot-tall chain link fence with vehicle and personnel access gates. The surface of the substation would be covered by gravel and the substation equipment would be placed onto concrete foundations.

### 1.1.10 Water Use and Source

Water required for facility construction activities, including grading and dust control, will be obtained from the applicant's existing contract with IID. Up to 5,000 gallons per day (gpd) of water will be required for the first 2-4 months of development of the facility. Approximately 2,000 gpd will be consumed during the remaining development schedule of approximately 12-18 months. Thus,

approximately 1.1 million gallons of water (10.1 acre-feet) will be used on-site during construction. Once operating, up to approximately 325 gpd (0.36 acre-feet per year) of non-potable water will be required and provided by the applicant's existing IID contract/allocation. Water required for well drilling would typically average 50,000 gpd. Water necessary for these activities would be obtained from local irrigation canals in conformance with IID requirements. Alternatively, a temporary pipeline from the respective irrigation canal could be used for water delivery to well sites. Any temporary pipeline would be laid on the surface immediately adjacent to the access road. The Project OEC is air cooled and will not require additional water resources. The Project will not require additional water from the Imperial Irrigation District (IID) for operations and will be covered under the existing contract.

## 1.2 Construction Activities

Construction of the proposed facilities is anticipated to take up to 35 months, beginning in the first quarter 2025. Facility construction would include site preparation activities, but no demolition of existing structures/buildings will occur. **Table 2** below provides a breakdown of the proposed construction schedule by phase and duration. Some construction activities will occur concurrently as facilities are installed simultaneously, as noted by the Phase Duration column not summing Activity Durations perfectly.

Table 2. Project Construction Process/Phasing

| Construction Phase                                  | Construction Activity  | Activity Duration | Phase Duration |
|---|--|-------------------|----------------|
| <b>Site Preparation</b>                             | Construction Kick-off/Staging  | 1 week            | 2 months       |
|   | Demolition/Site Clearing   | 1 week            |                |
|   | Site Preparation/Rough Grading   | 2 weeks           |                |
|   | Fine/Pad Grading, Excavation for Underground Conduit/Utilities, Stormwater | 1 month           |                |
| <b>Project Construction</b>                         | Well Pad Construction  | 3 months          | 16 months      |
|   | Parasitic Solar Construction   | 6 months          |                |
|   | Gen-tie distribution cable   | 4 months          |                |
|   | OEC Installation   | 6 months          |                |
|   | Landscaping, Lighting, Architectural Finishes                              | 1 month           |                |
| <b>Well Drilling &amp; Pipeline Interconnection</b> | Well Drilling and Completion   | 4 months          | 12 months      |
|   | Flow Testing   | 4 months          |                |
|   | Pipeline Install and Interconnection                                       | 4 Months          |                |
| <b>Substation Development &amp; Interconnection</b> | Project substation Development   | 3 months          | 4 months       |
|   | Interconnection with grid  | 2 weeks           |                |
|   | Testing  | 2 weeks           |                |
| <b>Testing &amp; Operational</b>                    | Testing Phase  | 2 weeks           | 1 month        |
|   | All Facilities Operational   | 2 weeks           |                |



ORMAT has estimated construction equipment and usage for the Project based on experience with similar projects as provided in **Table 3**. Similarly, based on construction activities associated with similar projects, ORMAT anticipates that up to 15 workers would be required for construction of Project components. Vehicle and truck trip generation rates for the Project provided in **Table 4** are estimated assuming roughly 3 trips/worker (assumed 50 percent of 15 workers leave/return once during the day) for a total of 46 trips, and 2 trips/vehicle (in/out) for vendor and haul trips. Trip lengths consist of default CalEEMod values with exception of vendors for delivery of Project equipment during construction, with deliveries of solar panels, geothermal equipment, etc. assumed to originate at Port of Long Beach, approximately 225 miles from Project site.

Table 3. Project Construction Equipment List by Project Activity

| Construction Phase   | Equipment <sup>1</sup>  | Quantity <sup>1</sup> | Engine Horsepower <sup>1</sup> | No. Days Used <sup>1</sup> | No. Hours Operated Per Day <sup>1</sup> |
|--|---|-----------------------|--------------------------------|----------------------------|---|
| <b>Site Preparation<br/>(Plant Site and Solar Fields)<br/>(2 Months)</b> | Heavy Duty Trucks   | 3                     | 402                            | 30                         | 5                                       |
|  | Excavator   | 1                     | 97                             | 30                         | 8                                       |
|  | Roller  | 2                     | 200                            | 30                         | 8                                       |
|  | Light-Duty Truck  | 8                     | 350                            | 30                         | 4                                       |
| <b>Project Construction<br/>(16 Months)</b>                              | Aerial Man Lifts  | 8                     | 63                             | 160                        | 6                                       |
|  | Excavator   | 1                     | 97                             | 40                         | 8                                       |
|  | Crane   | 2                     | 231                            | 160                        | 6                                       |
|  | Forklift  | 1                     | 89                             | 40                         | 8                                       |
|  | Forklift  | 6                     | 89                             | 245                        | 8                                       |
|  | Generator Set   | 1                     | 84                             | 320                        | 8                                       |
|  | Grader  | 1                     | 187                            | 30                         | 8                                       |
|  | Heavy Duty Trucks   | 2                     | 402                            | 90                         | 8                                       |
|  | Rubber Tired Loader   | 1                     | 203                            | 30                         | 8                                       |
|  | Backhoe   | 1                     | 97                             | 30                         | 8                                       |
|  | Welders   | 15                    | 46                             | 245                        | 6                                       |
|  | Light Duty Truck  | 1                     | 350                            | 40                         | 4                                       |
|  | Light Duty Truck  | 15                    | 350                            | 245                        | 4                                       |
|  | <b>Well Drilling and<br/>Pipe Interconnection<br/>(12 Months)</b> | Light tower           | 2                              | 27                         | 90                                      |
| Drill Rig  |   | 1                     | 500                            | 180                        | 24                                      |
| Rig Mud Pump   |   | 1                     | 500                            | 180                        | 24                                      |
| Rig Generator  |   | 1                     | 415                            | 180                        | 24                                      |
| Heavy Duty Trucks<br>(Mob/Demob)   |   | 8                     | 450                            | 24                         | 8                                       |
| Crane  |   | 2                     | 231                            | 24                         | 5                                       |
| Backhoe  |   | 1                     | 97                             | 24                         | 6                                       |
| Forklift   |   | 1                     | 89                             | 24                         | 6                                       |
| Vacuum Truck   |   | 1                     | 385                            | 24                         | 10                                      |
| Concrete Truck   |   | 1                     | 428                            | 3                          | 4                                       |
| Concrete Pumper  |   | 1                     | 100                            | 3                          | 4                                       |
| Light Duty Truck   |   | 4                     | 350                            | 24                         | 4                                       |
| <b>Substation<br/>Development and</b>                                    | Crane   | 1                     | 231                            | 80                         | 8                                       |
|  | Drill/Bore Rig  | 1                     | 221                            | 80                         | 8                                       |
|  | Aerial Lift   | 2                     | 63                             | 80                         | 8                                       |

| Construction Phase                    | Equipment <sup>1</sup>       | Quantity <sup>1</sup> | Engine Horsepower <sup>1</sup> | No. Days Used <sup>1</sup> | No. Hours Operated Per Day <sup>1</sup> |
|---------------------------------------|------------------------------|-----------------------|--------------------------------|----------------------------|---|
| <b>Interconnection<br/>(4 Months)</b> | Heavy Duty Trucks (Delivery) | 2                     | 402                            | 20                         | 4                                       |
|                                       | Backhoe                      | 1                     | 97                             | 14                         | 8                                       |
|                                       | Forklift                     | 1                     | 89                             | 80                         | 8                                       |
|                                       | Ditch Digger                 | 1                     | 13                             | 20                         | 8                                       |
|                                       | Generator Set                | 2                     | 84                             | 80                         | 8                                       |
|                                       | Light Duty Truck             | 5                     | 350                            | 80                         | 4                                       |
| <b>Testing<br/>(1 Month)</b>          | Generator                    | 1                     | 671                            | 30                         | 24                                      |
|                                       | Light Tower (27 hp)          | 2                     | 27                             | 30                         | 12                                      |
|                                       | Light Tower (9 hp)           | 2                     | 9                              | 30                         | 12                                      |
|                                       | Pump (115 hp)                | 1                     | 115                            | 30                         | 24                                      |
|                                       | Pump (415 hp)                | 1                     | 415                            | 30                         | 24                                      |
|                                       | Light Duty Truck             | 1                     | 350                            | 30                         | 4                                       |

Notes:

<sup>1</sup> Project equipment and use provided by ORMAT based on experience with construction of similar projects.

Table 4. Construction Vehicle Trips

| Construction Phase                                | Trip Type            | Number of One-Way Trips per Day | One-Way Trip Length (miles) <sup>2</sup> |
|---|----------------------|---------------------------------|--|
| <b>Site Preparation</b>                           | Workers <sup>1</sup> | 46                              | 10.2                                     |
|   | Vendor               | 10                              | 11.9                                     |
|   | Haul                 | 8                               | 20                                       |
| <b>Project Construction</b>                       | Workers <sup>1</sup> | 46                              | 10.2                                     |
|   | Vendor               | 40                              | 225                                      |
|   | Haul                 | 2                               | 20                                       |
| <b>Well Drilling and Pipe Interconnection</b>     | Workers <sup>1</sup> | 46                              | 10.2                                     |
|   | Vendor               | 10                              | 11.9                                     |
|   | Haul                 | 0                               | 20                                       |
| <b>Substation Development and Interconnection</b> | Workers <sup>1</sup> | 46                              | 10.2                                     |
|   | Vendor               | 10                              | 11.9                                     |
|   | Haul <sup>3</sup>    | 0                               | 20                                       |
| <b>Testing</b>                                    | Workers <sup>1</sup> | 46                              | 10.2                                     |
|   | Vendor               | 4                               | 11.9                                     |
|   | Haul                 | 0                               | 20                                       |

Notes:

<sup>1</sup> Trip generation rate is calculated at roughly 3 trips/worker (assumed 50 percent of 15 workers leave/return once during the day) for a total of 46 trips, and 2 trips/vehicle (in/out) for vendor and haul trips.

<sup>2</sup> Trip lengths consist of default CalEEMod values with exception of vendors for delivery of Project equipment during construction, with deliveries of solar panels, geothermal equipment, etc. assumed to originate at Port of Long Beach, approximately 225 miles from Project site.

<sup>3</sup> All truck trips are assigned to vendor deliveries.

### 1.3 Operation Activities

Once the proposed Project is complete, the site will be staffed with 1-2 onsite employees. The proposed Project would require routine maintenance and unscheduled maintenance as needed. The parasitic solar facilities will be monitored remotely with visitation on an as-needed basis, and security personnel will perform periodic site visits. Any required planned maintenance activities would generally consist of equipment inspection and replacement and would be scheduled to avoid peak load periods. Any unplanned maintenance would be responded to as needed, depending on the event.

Emergency response equipment at the site includes the following equipment and estimated operational hours per year:

- 400 kilowatt (kW) (540 horsepower [hp]) Emergency Diesel Generator with an estimated operation duration of 50 hours per year, and
- 300 hp Emergency Diesel Fire Pump with an estimated operation duration of 40 hours per year.

Both emergency engines will meet a minimum of U.S. Environmental Protection Agency (USEPA) Exhaust Emission Standards for Tier 3 nonroad compression-ignition engines.

The proposed substation includes new circuit breakers that would potentially be insulated with SF<sub>6</sub>. Note that CARB amended the *Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear* regulation in 2021 to further reduce GHG emissions from gas-insulated equipment. Key provisions of the amended regulation include a phase-out schedule for new sulfur hexafluoride gas-insulated equipment (January 1, 2025 for voltage less than 145 kV, January 1, 2029 for voltage between 145 and 245 kV, and January 1, 2031 for voltage greater than 245 kV). In the case that SF<sub>6</sub> alternative technology is available and approved prior to construction, the proposed Project would not require SF<sub>6</sub> for project operations. For the purpose of this analysis, it is assumed that a maximum of three circuit breakers will be insulated with SF<sub>6</sub> with an estimated 25 pounds of SF<sub>6</sub> gas per circuit breaker resulting in a total of 75 pounds of SF<sub>6</sub> gas required at the site. Consistent with the International Electrotechnical Commission (IEC) standard for new equipment leakage, a 0.5% per year leakage rate is assumed (United States Environmental Protection Agency [USEPA] 2016). Accordingly, an estimated 0.375 pounds of SF<sub>6</sub> would be released annually.

## SECTION 2 Existing Conditions

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The Project is located in Imperial County within the Salton Sea Air Basin (SSAB). The Imperial County portion of the SSAB is under the jurisdiction of the Imperial County Air Pollution Control District (ICAPCD). The SSAB encompasses the entirety of Imperial County and the southeast portion of Riverside County and is generally an arid desert region, with a significant land area located below sea level. The hot and dry conditions experienced in the region are a result of a large, semi-permanent high-pressure area that dominates the Imperial Valley and the presence of the coastal mountains to the west. The high pressure blocks most storms, except during the winter when the pressure is the weakest and tends to shift to the south.

The coastal mountains tend to block moist air from entering the valley resulting in hot temperatures during the summer and dry weather year-round. The SSAB contains relatively few major emissions sources, but may experience emissions transported from Mexicali, Mexico and from significant vehicular traffic, particularly near the two international ports of entry: Calexico West and Calexico East. Emissions sources within the SSAB consist of geothermal power generation, food processing, plaster and wallboard (gypsum) manufacturing, and other light industrial facilities.

The federal Clean Air Act (CAA), as amended, and the California Clean Air Act (CCAA) contain the primary provisions relating to air quality that apply to the Project. The EPA, CARB, and regional air districts have issued rules to implement the federal and state Clean Air Acts. The EPA uses "criteria pollutants" as indicators of air quality and has established for each of them a maximum concentration above which adverse effects on human health and the environment may occur. These threshold concentrations are called National Ambient Air Quality Standards (NAAQS). One set of limits (primary standard) protects health; another set of limits (secondary standard) is intended to prevent environmental and property damage. Under the CAA, the EPA has established NAAQS for seven criteria pollutants: ozone (O<sub>3</sub>), respirable particulate matter (PM<sub>10</sub>), fine particulate matter (PM<sub>2.5</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), lead (Pb), and sulfur dioxide (SO<sub>2</sub>). California has established State Ambient Air Quality Standards for the same criteria pollutants, plus an additional three pollutants (visibility reducing particulates, sulfates, and hydrogen sulfide [H<sub>2</sub>S]). States may have standards that are more restrictive than the federal thresholds, but they cannot be less restrictive. Although more stringent, the California standards have no specific dates for attainment, unlike federal standards. Under California law, designations are made by pollutant, rather than by averaging time. A geographic area that meets or exceeds the primary standard is called an attainment area; areas that do not meet the primary standard are called nonattainment areas.

### 2.1 Criteria Air Pollutants

A criteria air pollutant is any air pollutant for which ambient air quality standards (criteria) have been set by the USEPA (National Ambient Air Quality Standards [NAAQS]) or California Air Resources Board (CARB) (California Ambient Air Quality Standards [CAAQS]). The presence of these pollutants in ambient air is generally due to numerous diverse and widespread sources of emissions, and air quality standards have been established for these pollutants to protect public health. Criteria pollutants include ozone

(O<sub>3</sub>), fine particulate matter (PM<sub>2.5</sub>), respirable particulate matter (PM<sub>10</sub>), carbon monoxide (CO), nitrogen dioxide (NO<sub>2</sub>), lead (Pb), sulfur dioxide (SO<sub>2</sub>), visibility-reducing particles, sulfates, and hydrogen sulfide (H<sub>2</sub>S).

**Table 5** shows the state and federal ambient air quality standards while **Table 6** presents the attainment status of the SSAB for the state and federal standards. As shown, the Imperial County portion of the SSAB is currently designated as nonattainment for O<sub>3</sub> and PM<sub>10</sub> under state standards. Under federal standards, the Imperial County portion of the SSAB is in nonattainment for O<sub>3</sub> and PM<sub>2.5</sub> and is in attainment for PM<sub>10</sub>. The area is currently in attainment or unclassified status for CO, NO<sub>2</sub>, and SO<sub>2</sub>.

Table 5. State and Federal Ambient Air Quality Standards

| Pollutant   | Averaging Period   | California Standard                   | Federal Standard                      |
|---|--|---------------------------------------|---------------------------------------|
| Ozone (O <sub>3</sub> )                           | 1 hour   | 0.09 ppm<br>(180 µg/m <sup>3</sup> )  | Revoked                               |
| Ozone (O <sub>3</sub> )                           | 8 hour   | 0.070 ppm<br>(137 µg/m <sup>3</sup> ) | 0.07 ppm<br>(137 µg/m <sup>3</sup> )  |
| Respirable Particulate Matter (PM <sub>10</sub> ) | 24 hour  | 50 µg/m <sup>3</sup>                  | 150 µg/m <sup>3</sup>                 |
| PM <sub>10</sub>                                  | Annual   | 20 µg/m <sup>3</sup>                  | Revoked                               |
| Fine Particulate Matter (PM <sub>2.5</sub> )      | 24 hour  | none                                  | 35 µg/m <sup>3</sup>                  |
| PM <sub>2.5</sub>                                 | Annual   | 12 µg/m <sup>3</sup>                  | 12 µg/m <sup>3</sup>                  |
| Carbon Monoxide (CO)                              | 1 hour   | 20 ppm<br>(23 mg/m <sup>3</sup> )     | 35 ppm<br>(40 mg/m <sup>3</sup> )     |
| CO  | 8 hour   | 9 ppm<br>(10 mg/m <sup>3</sup> )      | 9 ppm<br>(10 mg/m <sup>3</sup> )      |
| Nitrogen Dioxide (NO <sub>2</sub> )               | 1 hour   | 0.18 ppm<br>(339 µg/m <sup>3</sup> )  | 0.100 ppm<br>(188 µg/m <sup>3</sup> ) |
| NO <sub>2</sub>                                   | Annual   | 0.030 ppm<br>(57 µg/m <sup>3</sup> )  | 0.053 ppm<br>(100 µg/m <sup>3</sup> ) |
| Lead (Pb)   | 30 Day Average   | 1.5 µg/m <sup>3</sup>                 | --                                    |
| Pb  | Rolling three-month period, evaluated over a three-year period | --                                    | 0.15 µg/m <sup>3</sup>                |
| Sulfur Dioxide (SO <sub>2</sub> )                 | 1 hour   | 0.25 ppm<br>(655 µg/m <sup>3</sup> )  | 0.075 ppm<br>(196 µg/m <sup>3</sup> ) |
| SO <sub>2</sub>                                   | 3 hour   | --                                    | 0.5 ppm<br>(1300 µg/m <sup>3</sup> )  |
| SO <sub>2</sub>                                   | 24 hour  | 0.04 ppm<br>(105 µg/m <sup>3</sup> )  | 0.14 ppm<br>(for certain areas)       |

| Pollutant                           | Averaging Period | California Standard  | Federal Standard |
|-------------------------------------|------------------|--|------------------|
| Hydrogen Sulfide (H <sub>2</sub> S) | 1 Hour           | 0.03 ppm<br>(42 µg/m <sup>3</sup> )  | --               |
| Sulfates                            | 24 hour          | 25 µg/m <sup>3</sup>   | --               |
| Vinyl Chloride                      | 24 hour          | 0.010 ppm<br>(26 µg/m <sup>3</sup> )   | --               |
| Visibility-Reducing Particles       | 8 hour           | Extinction coefficient of 0.23 per kilometer (visibility of ten miles or more due to particles when relative humidity is less than 70 percent) | --               |

Notes: ppm = parts per million; ppb = parts per billion; mg/m<sup>3</sup> = milligram per cubic meter; µg/m<sup>3</sup> = micrograms per cubic meter; "--" = no standard.

Table 6. Attainment Status – Imperial Valley Portion of the SSAB

| Pollutant   | California Designation | Federal Designation     |
|---|------------------------|-------------------------|
| Ozone (O <sub>3</sub> )                           | Nonattainment          | Nonattainment           |
| Respirable Particulate Matter (PM <sub>10</sub> ) | Nonattainment          | Attainment              |
| Fine Particulate Matter (PM <sub>2.5</sub> )      | Attainment             | Nonattainment           |
| Carbon Monoxide (CO)                              | Attainment             | Unclassified/Attainment |
| Nitrogen Dioxide (NO <sub>2</sub> )               | Attainment             | Unclassified/Attainment |
| Lead (Pb)   | Attainment             | Unclassified/Attainment |
| Sulfur Dioxide (SO <sub>2</sub> )                 | Attainment             | Unclassified/Attainment |
| Hydrogen Sulfide (H <sub>2</sub> S)               | Unclassified           | No Federal Standards    |
| Sulfates  | Attainment             | No Federal Standards    |
| Visibility Reducing Particles                     | Unclassified           | No Federal Standards    |

Source: CARB 2023

### 2.1.1 Ozone

O<sub>3</sub> is formed in the atmosphere by a series of complex chemical reactions and transformations in the presence of sunlight. Oxides of nitrogen (NO<sub>x</sub>) and reactive organic gases (ROGs) are the principal constituents in these reactions. O<sub>3</sub> is a pungent, colorless, toxic gas and is a primary component of smog.

O<sub>3</sub> is known as a secondary pollutant because it is formed in the atmosphere through a complex series of chemical reactions, rather than emitted directly into the air. The major sources of NO<sub>x</sub> in California are motor vehicles and other combustion processes. The major sources of ROG<sub>s</sub> in California are motor vehicles and the evaporation of chemical solvents and fuels.

O<sub>3</sub> is a strong irritating gas that can chemically burn and cause narrowing of airways, forcing the lungs and heart to work harder to provide oxygen to the body. People most likely to be affected by O<sub>3</sub> include the elderly, the young, athletes, and those who suffer from respiratory diseases such as asthma, emphysema, and chronic bronchitis.

### 2.1.2 PM<sub>10</sub>

PM<sub>10</sub>, or fugitive dust, consists of particulate matter (fine dusts and aerosols) that is ten microns or smaller in aerodynamic diameter. For reference, ten microns is about one-seventh the width of a human hair. When inhaled, particles larger than 10 microns are generally caught in the nose and throat and do not enter the lungs. PM<sub>10</sub> gets into the large upper branches of the lungs just below the throat, where they are caught and removed (by coughing, spitting, or swallowing).

The primary sources of PM<sub>10</sub> include dust, paved and unpaved roads, diesel exhaust, acidic aerosols, construction and demolition operations, soil and wind erosion, agricultural operations, residential wood combustion, and smoke. Secondary sources of PM<sub>10</sub> include tailpipe emissions and industrial sources. These sources have different constituents and therefore, varying effects on health. Airborne particles absorb and adsorb toxic substances and can be inhaled and lodge in the lungs. Once in the lungs, the toxic substances can be absorbed into the bloodstream and carried throughout the body. PM<sub>10</sub> concentrations tend to be lower during the winter months because meteorology greatly affects PM<sub>10</sub> concentrations. During rainfall events, concentrations are relatively low, and on windy days, PM<sub>10</sub> levels can be high. Photochemical aerosols, formed by chemical reactions with manmade emissions, may also influence PM<sub>10</sub> concentrations.

Elevated ambient particulate levels are associated with premature death, an increased number of asthma attacks, reduced lung function, aggravation of bronchitis, respiratory disease, and cancer.

### 2.1.3 PM<sub>2.5</sub>

PM<sub>2.5</sub> is a mixture of particulate matter (fine dusts and aerosols) that is 2.5 microns or smaller in aerodynamic diameter. For reference, 2.5 micrometers is approximately 1/30 the size of a human hair, so small that several thousand of these particles could fit on the period at the end of this sentence. PM<sub>2.5</sub> can travel into the deepest portions of the lungs where gas exchange occurs between the air and the bloodstream. These particles are very dangerous because the deepest portions of the lungs have no efficient mechanisms for removing them. If these particles are soluble in water, they pass directly into the bloodstream within minutes. If they are not soluble in water, they are retained deep in the lungs and can remain there permanently.

PM<sub>2.5</sub> particles are emitted from activities such as industrial and residential combustion processes, wood burning, and from diesel and gasoline-powered vehicles. They are also formed in the atmosphere from gases such as SO<sub>2</sub>, NO<sub>x</sub>, ammonia, and volatile organic compounds that are emitted from combustion

activities, and then become particles as a result of chemical transformations in the air (secondary particles).

Exposure to PM<sub>2.5</sub> increases the risks of long-term disease, including chronic respiratory disease, cancer, and increased and premature death. Other effects include increased respiratory stress and disease, decreased lung function, alterations in lung tissue and structure, and alterations in respiratory tract defense mechanisms.

#### 2.1.4 Carbon Monoxide

CO is a common colorless, odorless, highly toxic gas. It is produced by natural and anthropogenic combustion processes. The major source of CO in urban areas is incomplete combustion of carbon containing fuels (primarily gasoline, diesel fuel, and natural gas). However, it also results from combustion processes, including forest fires and agricultural burning. Over 80 percent of the CO emitted in urban areas is contributed by motor vehicles. Ambient CO concentrations are generally higher in the winter, usually on cold, clear days and nights with little or no wind. Low wind speeds inhibit horizontal dispersion, and surface inversions inhibit vertical mixing. Traffic-congested intersections have the potential to result in localized high levels of CO. These localized areas of elevated CO concentrations are termed CO “hotspots”. CO hotspots are defined as locations where ambient CO concentrations exceed the CAAQS (20 parts per million (ppm), 1-hour; 9 ppm, 8-hour).

When inhaled, CO does not directly harm the lungs; rather, it combines chemically with hemoglobin, the oxygen-transporting component of blood and diminishes the ability of blood to carry oxygen to the brain, heart, and other vital organs. Red blood cells have 220 times the attraction for CO than for oxygen. This affinity interferes with movement of oxygen to the body’s tissues. Effects from CO exposure include headaches, nausea, and death. High levels of CO in a concentrated area can result in asphyxiation.

#### 2.1.5 Nitrogen Dioxide

NO<sub>2</sub> is formed in the atmosphere primarily by the rapid reaction of the colorless gas nitric oxide (NO) with atmospheric oxygen. It is a reddish-brown gas with an odor similar to that of bleach. NO<sub>2</sub> participates in the photochemical reactions that result in O<sub>3</sub>. The greatest source of NO, and subsequently NO<sub>2</sub>, is the high-temperature combustion of fossil fuels such as in motor vehicle engines and power plant boilers. NO<sub>2</sub> and NO are referred to collectively as NO<sub>x</sub>.

NO<sub>2</sub> can irritate and damage the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections such as influenza. Negative health effects are apparent after exposure to NO<sub>2</sub> levels as low as 0.11 ppm for a few minutes. This level of exposure may elicit or alter sensory responses. Higher concentrations (0.45 - 1.5 ppm) may cause impaired pulmonary function, increased incidence of acute respiratory disease, and difficult breathing for both bronchitis sufferers and healthy persons.

#### 2.1.6 Lead

Lead is a bluish-gray metal that occurs naturally in small quantities. Pure lead is insoluble in water. However, some lead compounds are water soluble. Lead and lead compounds in the atmosphere often come from fuel combustion sources, such as the burning of solid waste, coal, and oils. Historically, the



largest source of lead in the atmosphere resulted from the combustion of leaded gasoline in motor vehicles. However, with the phase-out of leaded gasoline, concentrations of lead in the air have substantially decreased. Industrial sources of atmospheric lead include steel and iron factories, lead smelting and refining, and battery manufacturing. Atmospheric lead may also result from lead in entrained dust and dirt contaminated with lead.

Acute health effects of lead include gastrointestinal distress (such as colic), brain and kidney damage, and even death. Lead also has numerous chronic health effects, including anemia, central nervous system damage, reproductive dysfunction, as well as effects on blood pressure, kidney function, and vitamin D metabolism. The USEPA's Office of Air Quality Planning and Standards ranks lead as a "high concern" pollutant based on its severe chronic toxicity.

### 2.1.7 Sulfur Dioxide

SO<sub>2</sub> is a colorless gas with a sharp, irritating odor. It can react in the atmosphere to produce sulfuric acid and sulfates, which contribute to acid deposition and atmospheric visibility reduction. It also contributes to the formation of PM<sub>10</sub>. Most of the SO<sub>2</sub> emitted into the atmosphere is from the burning of sulfur-containing fossil fuels by mobile sources, such as marine vessels and farm equipment, and stationary fuel combustion.

SO<sub>2</sub> irritates the mucous membranes of the eyes and nose, and may also affect the mouth, trachea, and lungs, causing sore throat, coughing, and breathing difficulties.

## 2.2 Toxic Air Contaminants

Toxic air contaminants (TACs), also referred to as hazardous air pollutants, are air pollutants (excluding O<sub>3</sub>, CO, SO<sub>2</sub>, and NO<sub>2</sub>) that may reasonably be anticipated to cause cancer, developmental effects, reproductive dysfunction, neurological disorders, heritable gene mutations, or other serious or irreversible acute or chronic health effects in humans. TACs are regulated under different federal and state regulatory processes than O<sub>3</sub> and the other criteria air pollutants. Health effects of TACs may occur at extremely low levels, and it is typically difficult to identify levels of exposure that do not produce adverse health effects. TACs generally consist of four types: 1) organic chemicals such as benzene, dioxins, toluene, and perchloroethylene; 2) inorganic chemicals such as chlorine and arsenic; 3) fibers such as asbestos; and 4) metals such as mercury, cadmium, chromium, and nickel. These air contaminants are defined by the USEPA, the State of California, and other governmental agencies. Currently, more than 900 substances are regulated TACs under federal, state, and local regulations.

TACs are produced by a variety of sources, including industrial facilities such as refineries, chemical plants, chrome plating operations, and surface coating operations; commercial facilities such as dry cleaners and gasoline stations; motor vehicles, especially diesel-powered vehicles; and consumer products. TACs can be released as a result of normal industrial operations, as well as from accidental releases during process upset conditions.

Health effects from TACs vary with the type of pollutant, the concentration of the pollutant, the duration of exposure, and the exposure pathway. TACs usually get into the body through inhalation, though they can also be ingested or absorbed through the skin. Adverse effects on people tend to be either acute or chronic. Acute effects result from short-term, high levels of airborne toxic substances.

These effects may include nausea, skin irritation, cardiopulmonary distress, and even death. Chronic effects result from long-term, low-level exposure to airborne toxic substances. Effects can range from relatively minor to life-threatening. Less serious chronic effects include skin rashes, dry skin, coughing throat irritation, and headaches. More serious chronic effects include lung, liver, and kidney damage; nervous system damage; miscarriages; genetic and birth defects; and cancer. Many TACs can have both carcinogenic and non-carcinogenic health effects.

## 2.3 Other Issues of Concern

### 2.3.1 Odors

Odors are substances in the air that pose a nuisance to nearby land uses such as residences, schools, daycare centers, and hospitals. Odors are typically not a health concern but can interfere with the use and enjoyment of nearby property. Odors may be generated by a wide variety of sources. The odor associated with decomposing organic material (such as plants removed from ponds and left to decay) may also be considered to be objectionable. Objectionable odors created by a facility or operation may cause a nuisance or annoyance to adjacent populations.

### 2.3.2 Fugitive Dust

Fugitive dust refers to solid particulate matter that becomes airborne because of wind action and human activities. Fugitive dust particles are mainly soil minerals, but can also be sea salt, pollen, spores, tire particles. About half of fugitive dust particles (by weight) are larger than 10 microns and settle quickly. Fugitive dust particles 10 microns or smaller (i.e., PM<sub>10</sub>) can remain airborne for weeks.

The primary sources of fugitive dust are grading and excavation operations associated with road and building construction, aggregate mining and processing operations, and sanitary landfill operations. Unpaved roadways are also a large source of fugitive dust. Other sources of fugitive dust include demolition activities, unpaved roadway shoulders, vacant lots, material stockpiles, abrasive blasting operations, and off-road vehicle use. The amount of fugitive dust created by such activities is dependent largely on the type of soil, type of operation taking place, size of the area, degree of soil disturbance, soil moisture content, and wind speed.

When fugitive dust particles are inhaled, they can travel easily to the deep parts of the lungs and may remain there, causing respiratory illness, lung damage, and even premature death in sensitive people. Fugitive dust may also be a nuisance to those living and working nearby. Dust blown across roadways can lead to traffic accidents by reducing visibility. Fugitive dust can soil and damage materials and property, such as fabrics, vehicles, and buildings. Particulates deposited on agricultural crops can lower crop quality and yield. Additionally, fugitive dust can lead to the spread of San Joaquin Valley Fever, a potential health hazard caused by a fungus that lives in certain soil types throughout California.

## 2.4 Greenhouse Gas

Recent significant changes in global climate patterns have been associated with global warming, an average increase in the temperature of the atmosphere near Earth's surface. Global warming has been attributed to the accumulation of greenhouse gas (GHG) emissions in the atmosphere. GHGs trap heat

in the atmosphere, which in turn heats the surface of the Earth. Some GHGs occur naturally and are emitted to the atmosphere through natural processes, while others are created and emitted solely through human activities. The emission of GHGs through the combustion of fossil fuels (i.e., fuels containing carbon) in conjunction with other human activities appears to be closely associated with global warming.

The standard state definition of GHG includes six substances: carbon dioxide (CO<sub>2</sub>); methane (CH<sub>4</sub>); nitrous oxide (N<sub>2</sub>O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); and sulfur hexafluoride (SF<sub>6</sub>) (CARB 2014). Tropospheric O<sub>3</sub> (a short-lived, not-well-mixed gas) and black carbon are also important climate pollutants. CO<sub>2</sub> is the most abundant GHG, and collectively CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O amount to 80 percent of GHG effects.

For each GHG, a global warming potential (GWP) has been calculated to reflect how long emissions remain in the atmosphere and how strongly energy is absorbed on a per-kilogram basis relative to CO<sub>2</sub>. GWP is a metric that indicates the relative climate forcing of a kilogram of emissions when averaged over the period of interest (both 20-year and 100-year horizons are used for the GWPs shown in **Table 7**). To account for this higher potential, emissions of other GHGs are frequently expressed in the equivalent of CO<sub>2</sub>, denoted as CO<sub>2</sub>e. CO<sub>2</sub>e is a measurement used to account for the fact that different GHGs have different potential to retain infrared radiation in the atmosphere and contribute to the greenhouse effect.

Table 7. Global Warming Potential for Selected Greenhouse Gases

| Pollutant            | Lifetime (Years) | Global Warming Potential (20-Year) | Global Warming Potential (100-Year) |
|----------------------|------------------|------------------------------------|-------------------------------------|
| Carbon Dioxide       | 100              | 1                                  | 1                                   |
| Nitrous Oxide        | 121              | 264                                | 265                                 |
| Nitrogen Trifluoride | 500              | 12,800                             | 16,100                              |
| Sulfur Hexafluoride  | 3,200            | 17,500                             | 23,500                              |
| Perfluorocarbons     | 3,000-50,000     | 5,000-8,000                        | 7,000-11,000                        |
| Black Carbon         | days to weeks    | 270-6,200                          | 100-1,700                           |
| Methane              | 12               | 84                                 | 28                                  |
| Hydrofluorocarbons   | Uncertain        | 100-11,000                         | 100-12,000                          |

Source: CARB 2014

The primary effect of rising global concentrations of atmospheric GHG is a rise in the average global temperature of approximately 0.2 degrees Celsius per decade, determined from meteorological measurements worldwide between 1990 and 2005. Climate change modeling using emission rates shows that further warming is likely to occur given the expected rise in global atmospheric GHG concentrations from innumerable sources of GHG emissions worldwide, which would induce further changes in the global climate system during the current century.

Scientific understanding of the fundamental processes responsible for global climate change has improved over the past decade. However, there remain significant scientific uncertainties. For example, uncertainties exist in predictions of local effects of climate change, occurrence of extreme weather

events, and effects of aerosols, changes in clouds, shifts in the intensity and distribution of precipitation, and changes in oceanic circulation. Due to the complexity of the climate system, the uncertainty surrounding the implications of climate change may never be eliminated. Because of these uncertainties, there continues to be significant debate as to the extent to which increased concentrations of GHGs have caused or would cause climate change, and with respect to the appropriate actions to limit and/or respond to climate change. In addition, it may not be possible to link specific development projects to future specific climate change impacts, though estimating project-specific impacts is possible.

## 2.5 Sensitive Receptors

Some population groups, such as children, the elderly, and acutely and chronically ill persons are considered more sensitive to air pollution than others. Sensitive receptor locations typically include residential areas, hospitals, elder-care facilities, rehabilitation centers, daycare centers, and parks. The Project site is in a rural area surrounded by agricultural fields.

There are numerous sensitive receptors in proximity to Project components including residences and Heber Elementary School. **Table 8** summarizes the sensitive receptors in the Project area and distance to the nearest Project components.

Table 8. Sensitive Receptors in Proximity to Project Components.

| Sensitive Receptor                       | Nearest Project Component        | Distance to Nearest Project Component |
|--|----------------------------------|---------------------------------------|
| Residence (104 E. Jasper Rd.)            | Heber 2 Parasitic Solar Facility | 540                                   |
| Residence (600 Dogwood Rd.)              | Dogwood Parasitic Facility       | 2,900                                 |
| Residential Area (E. Fawcett Rd.)        | Production Well                  | 2,985                                 |
| Heber Elementary School                  | Production Well                  | 3,400                                 |
| Residences (153, 185, 195 E. Cole Blvd.) | Dogwood Parasitic Facility       | 3,825                                 |

## SECTION 3 Regulatory Framework

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Federal, state, and local regulations and policies that may apply to the proposed Project emissions are described below.

### 3.1 Federal

#### 3.1.1 Clean Air Act

The Federal Clean Air Act (CAA), passed in 1970 and last amended in 1990, is the primary federal law that governs air quality. The Federal CAA delegates primary responsibility for clean air to the U.S. EPA. The U.S. EPA develops rules and regulations to preserve and improve air quality and delegates specific responsibilities to state and local agencies. Under the act, the U.S. EPA has established the NAAQS for six criteria air pollutants that are pervasive in urban environments and for which state and national health-based ambient air quality standards have been established. Ozone, CO, NO<sub>2</sub>, SO<sub>2</sub>, Pb, and PM (Including both PM<sub>10</sub>, and PM<sub>2.5</sub>) are the six criteria air pollutants. Ozone is a secondary pollutant, nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs) are of particular interest as they are precursors to ozone formation. In addition, national standards exist for Pb. The NAAQS standards are set at levels that protect public health with a margin of safety and are subject to periodic review and revision.

The Federal CAA requires U.S. EPA to designate areas as attainment, nonattainment, or maintenance (previously nonattainment and currently attainment) for each criteria pollutant based on whether the NAAQS have been achieved. The federal standards are summarized above in **Table 5**.

#### 3.1.2 Mandatory Reporting of Greenhouse Gases (Title 40, Part 98 of the Code of Federal Regulations)

Under Subpart DD, owners and operators of electric power system facilities with a total nameplate capacity that exceeds 17,820 lbs (7,838 kg) of sulfur hexafluoride (SF<sub>6</sub>) and/or perfluorocarbons (PFCs) must report emissions of SF<sub>6</sub> and/or PFCs from the use of electrical transmission and distribution equipment. Owners and operators are required to collect emissions data, calculate GHG emissions, and follow the specified procedures for quality assurance, missing data, recordkeeping, and reporting per the requirements of 40 CFR Part 98 Subpart DD – Electric Transmission and Distribution Equipment Use.

### 3.2 State

#### 3.2.1 California Clean Air Act

The California Clean Air Act (CCAA) was adopted by CARB in 1988. The CCAA is responsible for meeting the state requirements of the Federal CAA and for establishing the CAAQS. CARB oversees the functions of local air pollution control districts and air quality management districts, which, in turn, administer air quality activities at the regional and county levels. The CCAA, as amended in 1992, requires all air districts of the state to achieve and maintain the CAAQS by the earliest practical date.

The CCAA requires CARB to designate areas within California as either attainment or nonattainment for each criteria pollutant based on whether the CAAQS have been achieved. Under the CCAA, areas are designated as nonattainment for a pollutant if air quality data shows that a state standard for the pollutant was violated at least once during the previous 3 calendar years. As shown in **Table 5**, the CAAQS are generally more stringent than the corresponding federal standards and incorporate additional standards for sulfates, hydrogen sulfide, vinyl chloride, and visibility-reducing particles.

Exceedances that are affected by highly irregular or infrequent events are not considered violations of a state standard and are not used as a basis for designating areas as nonattainment.

### 3.2.2 California State Implementation Plan

The CAA mandates that the state submit and implement a State Implementation Plan (SIP) for areas not meeting the NAAQS. These plans must include pollution control measures that demonstrate how the standards will be met. State law makes CARB the lead agency for all purposes related to the SIP.

Local air districts and other agencies prepare SIP elements and submit them to CARB for review and approval. CARB then forwards SIP revisions to the U.S. EPA for approval and publication in the Federal Register. The Code of Federal Regulations Title 40, Chapter I, Part 52, Subpart F, Section 52.220 lists all of the items which are included in the California SIP.

### 3.2.3 Toxic Air Contaminants Regulation

Toxic Air Contaminant (TAC) sources include industrial processes, dry cleaners, gasoline stations, paint and solvent operations, and fossil fuel combustion sources (i.e., Diesel Particulate Matter [DPM]).

In August 1998, ARB identified DPM emissions from diesel-fueled engines as a TAC. In September 2000, ARB approved a comprehensive diesel risk reduction plan to reduce emissions from both new and existing diesel fueled engines and vehicles. The goal of the plan is to reduce diesel PM<sub>10</sub> (inhalable particulate matter) emissions and the associated health risk by 75 percent in 2010 and by 85 percent by 2020. The plan identified 14 measures that target new and existing on-road vehicles (e.g., heavy duty trucks and buses, etc.), off-road equipment (e.g., graders, tractors, forklifts, sweepers, and boats), portable equipment (e.g., pumps, etc.), and stationary engines (e.g., stand-by power generators, etc.).

### 3.2.4 Executive Order S-3-05

On June 1, 2005, Executive Order S-3-05 set the following GHG emission reduction targets: by 2010, reduce GHG emissions to 2000 levels; by 2020, reduce GHG emissions to 1990 levels; and by 2050, reduce GHG emissions to 80 percent below 1990 levels. It calls for the Secretary of CalEPA to be responsible for coordination of state agencies and progress reporting.

### 3.2.5 Executive Order B-30-15

In April 2015, Governor Edmund Brown issued an Executive Order establishing a statewide GHG reduction goal of 40 percent below 1990 levels by 2030. The emission reduction target acts as an interim goal between the AB 32 goal (i.e., achieve 1990 emission levels by 2020) and Governor Brown's Executive Order S-03-05 goal of reducing statewide emissions 80 percent below 1990 levels by 2050. In

addition, the Executive Order aligns California's 2030 GHG reduction goal with the European Union's reduction target (i.e., 40 percent below 1990 levels by 2030) that was adopted in October 2014.

### 3.2.6 Assembly Bill 32 (AB 32)

In September 2006, the California Global Warming Solutions Act of 2006, also known as AB 32, was signed into law. AB 32 focuses on reducing GHG emissions in California and requires CARB to adopt rules and regulations that would achieve GHG emissions equivalent to statewide levels in 1990 by 2020. CARB initially determined that the total statewide aggregated GHG 1990 emissions level and 2020 emissions limit was 427 MMTCO<sub>2e</sub>. The 2020 target reduction was estimated to be 174 MMTCO<sub>2e</sub>.

To achieve the goal, AB 32 mandates that CARB establish a quantified emissions cap, institute a schedule to meet the cap, implement regulations to reduce statewide GHG emissions from stationary sources, and develop tracking, reporting, and enforcement mechanisms to ensure that reductions are achieved.

### 3.2.7 Senate Bill 32 (SB 32)

Senate Bill (SB) 32, signed September 8, 2016, updates AB 32 to include an emissions reduction goal for the year 2030. Specifically, SB 32 requires the state board to ensure that statewide GHG emissions are reduced to 40 percent below the 1990 level by 2030. The new plan, outlined in SB 32, involves increasing renewable energy use, imposing tighter limits on the carbon content of gasoline and diesel fuel, putting more electric cars on the road, improving energy efficiency, and curbing emissions from key industries.

### 3.2.8 Senate Bill 375 (SB 375)

Acknowledging the relationship between land use planning and transportation sector GHG emissions, Senate Bill (SB) 375 was passed by the State Assembly on August 25, 2008, and signed by the Governor on September 30, 2008. This legislation links regional planning for housing and transportation with the GHG reduction goals outlined in AB 32. Reductions in GHG emissions would be achieved by, for example, locating employment opportunities close to transit.

Under SB 375, each Metropolitan Planning Organization (MPO) would be required to adopt a Sustainable Community Strategy (SCS) to encourage compact development that reduce passenger vehicle miles traveled (VMT) and trips so that the region will meet a target, created by CARB, for reducing GHG emissions. If the SCS is unable to achieve the regional GHG emissions reduction targets, then the MPO is required to prepare an alternative planning strategy that shows how the GHG emissions reduction target could be achieved through alternative development patterns, infrastructure, and/or transportation measure.

### 3.2.9 Southern California Association of Governments

To implement SB 375 and reduce GHG emissions by correlating land use and transportation planning, SCAG adopted the *2020–2045 Regional Transportation Plan/Sustainable Communities Strategy (2020–2045 RTP/SCS)* on September 3, 2020. The 2020–2045 RTP/SCS reaffirms the land use policies that were incorporated into the 2016–2040 RTP/SCS. The 2020–2045 RTP/SCS describes how the region can attain the GHG emission-reduction targets set by CARB by achieving a 19 percent reduction by 2035 compared

to the 2005 level on a per capita basis. Compliance with and implementation of 2020 RTP/SCS policies and strategies would have co-benefits of reducing per capita criteria air pollutant emissions associated with reduced per capita VMT.

### 3.2.10 Climate Change Scoping Plan

In 2008, CARB approved the original Climate Change Scoping Plan as required by AB 32. Subsequently, CARB approved updates to the Climate Change Scoping Plan in 2014 (First Update) and 2017 (2017 Update), with the 2017 Update considering SB 32 (adopted in 2016) in addition to AB 32. In December 2022, CARB approved the final version of California's 2022 Climate Change Scoping Plan (2022 Scoping Plan Update), which outlines the proposed framework of action for achieving California's new AB 1279 2045 GHG target: an 85 percent reduction in GHG emissions by 2045 relative to 1990 levels. The original Climate Change Scoping Plan proposed a "comprehensive set of actions designed to reduce overall carbon GHG emissions in California, improve our environment, reduce our dependence on oil, diversify our energy sources, save energy, create new jobs, and enhance public health. The original Climate Change Scoping Plan identified a range of GHG reduction actions that included direct regulations, alternative compliance mechanisms, monetary and non-monetary incentives, voluntary actions, market-based mechanisms, such as a cap-and-trade system, and an AB 32 implementation fee to fund the program. The 2022 Scoping Plan Update focuses on strategies for reducing California's dependency on petroleum to provide customers with clean energy options that address climate change and support clean sector jobs. SB 350 and other regulations are expected to decarbonize the electricity sector over time.

### 3.2.11 California Green Building Standards (CALGreen Code)

The California Green Building Standards Code (California Code of Regulations, Title 24, Part 11), commonly referred to as the CALGreen Code, went into effect on January 1, 2017. CALGreen standards require new residential and commercial buildings to comply with mandatory measures under five topical areas: planning and design, energy efficiency, water efficiency and conservation, material conservation and resource efficiency, and environmental quality. CALGreen also provides voluntary tiers and measures that local governments may adopt that encourage or require additional measures in the five green building topics. The 2019 CALGreen code updates were published July 1, 2019, with an effective date of January 1, 2020.

The California Energy Code (California Code of Regulations, Title 24, Section 6) was created as part of the California Building Standards Code (Title 24 of the California Code of Regulations) by the California Building Standards Commission in 1978 to establish statewide building energy efficiency standards to reduce California's energy consumption. These standards include provisions applicable to all buildings, residential and nonresidential, which describe requirements for documentation and certificates that the building meets the standards. Compliance with Title 24 is enforced through the building permit process.

### 3.2.12 Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear (Title 17, Sections 95350-95359 of the California Code of Regulations)

The California Air Resources Board (CARB) adopted this rule in 2011 to reduce SF<sub>6</sub> emissions from gas insulated switchgear (GIS) and circuit breakers that use SF<sub>6</sub> as an electrical insulating medium. In



response to emerging technologies using lower or zero GWP insulators, CARB amended the regulation in 2021 to further reduce GHG emissions from gas-insulated equipment. Key provisions of the amended regulation include a phase-out schedule for new sulfur hexafluoride gas-insulated equipment (January 1, 2025 for voltage less than 145 kV; January 1, 2029 for voltage between 145 and 245 kV; and January 1, 2031 for voltage greater than 245 kV), coverage of other GHGs beyond sulfur hexafluoride used in gas-insulated equipment, and other changes that enhance accuracy of emissions accounting and reporting.

### 3.3 Regional

#### 3.3.1 Imperial County Air Pollution Control District

The ICAPCD is the agency responsible for monitoring air quality, as well as planning, implementing, and enforcing programs designed to attain and maintain state and federal ambient air quality standards in the district. ICAPCD is responsible for regulating stationary sources of air emissions in Imperial County. Stationary sources that have the potential to emit air pollutants into the ambient air are subject to the Rules and Regulations adopted by ICAPCD. ICAPCD is responsible for establishing stationary source permitting requirements and for ensuring that new, modified, or relocated stationary sources do not create net emission increases. Monitoring of ambient air quality in Imperial County began in 1976. Since that time, monitoring has been performed by ICAPCD, CARB, and by private industry.

There are six monitoring sites in Imperial County from Niland to Calexico. The ICAPCD has developed the following plans to achieve attainment for air quality ambient standards:

- 2009 Imperial County Plan for PM<sub>10</sub>
- 2013 Imperial County Plan for 2006 24-hour PM<sub>2.5</sub> for Moderate Nonattainment Area
- 2017 Imperial County Plan for 2008 8-hour Ozone Standard
- 2018 Imperial County Plan for PM<sub>10</sub>
- 2018 Redesignation Request and Maintenance Plan for PM<sub>10</sub>
- 2018 Imperial County Plan for PM<sub>2.5</sub>

In addition to the above plans, the ICAPCD is working cooperatively with counterparts from Mexico to implement emissions reductions strategies and projects for air quality improvements at the border. The two countries strive to achieve these goals through local input from states, county governments, and citizens. Within the Mexicali and Imperial Valley area, the Air Quality Task Force has been organized to address those issues unique to the border region known as the Mexicali/Imperial air shed.

The Air Quality Task Force membership includes representatives from federal, state, and local governments from both sides of the border, as well as representatives from academia, environmental organizations, and the general public. This group was created to promote regional efforts to improve the air quality monitoring network, emissions inventories, and air pollution transport modeling development, as well as the creation of programs and strategies to improve air quality.

Pursuant to the requirements of SB 97, the Resources Agency adopted amendments to the CEQA Guidelines to provide regulatory guidance on the analysis and mitigation of GHG emissions in CEQA documents, while giving lead agencies the discretion to set quantitative or qualitative thresholds for the

assessment and mitigation of GHG and climate change impacts. Formal CEQA thresholds for lead agencies must always be established through a public hearing process. Imperial County has not established formal quantitative or qualitative thresholds through a public rulemaking process, but CEQA permits the lead agency to establish a project-specific threshold of significance if backed by substantial evidence, until such time as a formal threshold is approved. The ICAPCD has not adopted thresholds of significance for projects' GHG emissions.

### 3.3.2 Imperial County Air Pollution Control District Rules and Regulations

ICAPCD has the authority to adopt and enforce regulations dealing with controls for specific types of sources, emissions or hazardous air pollutants, and New Source Review. The ICAPCD Rules and Regulations are part of the SIP and are separately enforceable by the EPA.

**Rule 106 – Abatement.** The Board may, after notice and a hearing, issue, or provide for the issuance by the Hearing Board, of an order for abatement whenever the District finds that any person is in violation of the rules and regulations limiting the discharge of air contaminants into the atmosphere.

**Rule 107 – Land Use.** The purpose of this rule is to provide ICAPCD the duty to review and advise the appropriate planning authorities within the District on all new construction or changes in land use which the Air Pollution Control Officer believes could become a source of air pollution problems.

**Rule 201 – Permits Required.** The construction, installation, modification, replacement, and operation of any equipment which may emit or control Air Contaminants require ICAPCD permits.

**Rule 207 – New and Modified Stationary Source Review.** Establishes preconstruction review requirements for new and modified stationary sources to ensure the operations of equipment does not interfere with attainment or maintenance of ambient air quality standards.

**Rule 208 – Permit to Operate.** The ICAPCD would inspect and evaluate the facility to ensure the facility has been constructed or installed and will operate to comply with the provisions of the Authority to Construct permit and comply with all applicable laws, rules, standards, and guidelines.

**Rule 310 – Operational Development Fee.** The purpose of this rule is to provide ICAPCD with a sound method for mitigating the emissions produced from the operation of new commercial and residential development projects throughout the County of Imperial and incorporated cities. All project proponents have the option to either provide off-site mitigation, pay the operational development fee, or do a combination of both. This rule will assist ICAPCD in attaining the state and federal ambient air quality standards for PM<sub>10</sub> and O<sub>3</sub>.

**Rule 401 – Opacity of Emissions.** Sets limits for release or discharge of emissions into the atmosphere, other than uncombined water vapor, that are dark or darker in shade as designated as No. 1 on the Ringelmann Chart (i.e., scale for measuring the apparent density or opacity of smoke) or obscure an observer's view to a degree equal to or greater than smoke does as compared to No. 1 on the Ringelmann Chart, for a period or aggregated period of more than three minutes in any hour.

**Rule 403 – General Limitations on the Discharge of Air Contaminants.** Rule 403 sets forth limitations on emissions of pollutants, including particulate matter, from individual sources.

**Rule 405 – Sulfur Compounds Emissions Standards, Limitations and Prohibitions.** Rule 405 applies to the discharge of sulfur compounds into the atmosphere and limits emissions of sulfur compounds (calculated as sulfur dioxide SO<sub>2</sub>) in excess of 0.2 percent by volume.

**Rule 407 – Nuisance.** Rule 407 prohibits a person from discharging from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance or annoyance to any considerable number of persons or to the public, or which endanger the comfort, repose, health or safety of any such persons or the public, or which cause, or have a natural tendency to cause, injury or damage to business or property.

**Rule 801 – Construction and Earthmoving Activities.** Rule 801 aims to reduce the amount of PM<sub>10</sub> entrained in the ambient air as a result of emissions generated from construction and other earthmoving activities by requiring actions to prevent, reduce, or mitigate PM<sub>10</sub> emissions. This rule applies to any construction and other earthmoving activities, including, but not limited to, land clearing, excavation related to construction, land leveling, grading, cut and fill grading, erection or demolition of any structure, cutting and filling, trenching, loading or unloading of bulk materials, demolishing, drilling, adding to or removing bulk of materials from open storage piles, weed abatement through disking, back filling, travel on-site and travel on access roads to and from the site.

**Rule 900 – Procedures for Issuing Permits to Operate Sources Subject to Title V of the Federal Clean Air Act Amendments of 1990.** Rule 900 provides procedures for issuing permits to operate for industrial projects that are subject to Title V of the federal Clean Air Act Amendments of 1990 (Major Sources) of emissions, which is defined as a source that exceeds 100 tons per year of any regulated pollutant, including GHG emissions.

**Rule 903 – Potential to Emit.** Rule 903 applies to any stationary source that would have the potential to emit hazardous air pollutants (HAPs). Rule 903 provides *de minimis* emission levels of 20,000 MTCO<sub>2e</sub> per year of GHG, 5 tons per year of a regulated air pollutant (excluding HAPs and GHG), 2 tons per year of a single HAP, and 5 tons per year of any combination of HAPs, where if a stationary source produces less emissions less than the *de minimis* emission levels, the source is exempt from Rule 903 recordkeeping and reporting requirements.

**Regulation VIII – Fugitive Dust Rules.** Regulation VIII sets forth rules regarding the control of fugitive dust, including fugitive dust from construction activities. The regulation requires implementation of fugitive dust control measures to reduce emissions from earthmoving, unpaved roads, handling of bulk materials, and control of track-out/carry-out dust from active construction sites. Best Available Control Measures to reduce fugitive dust during construction and earthmoving activities include but are not limited to:

- Phasing of work in order to minimize disturbed surface area
- Application of water or chemical stabilizers to disturbed soils
- Construction and maintenance of wind barriers
- Use of a track-out control device or wash down system at access points to paved roads.

Compliance with Regulation VIII is mandatory for all construction sites, regardless of size; however, compliance with Regulation VIII does not constitute mitigation under the reductions attributed to

environmental impacts. In addition, compliance for a project includes: (1) the development of a dust control plan for the construction and operational phase; and (2) notification to the Air District is required 10 days prior to the commencement of any construction activity. Furthermore, any use of engine(s) and/or generator(s) of 50 horsepower or greater may require a permit through ICAPCD.

### 3.3.3 Southern California Association of Governments – 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy

The Southern California Association of Governments (SCAG) is the designated metropolitan planning organization for Los Angeles, Ventura, Orange, San Bernardino, Riverside, and Imperial Counties. CEQA requires that regional agencies like SCAG review projects and plans throughout its jurisdiction. SCAG, as the region’s “Clearinghouse,” collects information on projects of varying size and scope to provide a central point to monitor regional activity. SCAG has the responsibility of reviewing dozens of projects, plans, and programs every month. Projects and plans that are regionally significant must demonstrate to SCAG their consistency with a range of adopted regional plans and policies.

On September 3, 2020, SCAG adopted the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) (SCAG 2020). The RTP/SCS or “Connect SoCal” includes a strong commitment to reduce emissions from transportation sources to comply with Senate Bill 375, improve public health, and meet the NAAQS as set forth by the federal CAA.

### 3.3.4 Imperial County Regional Climate Action Plan

Led by the Imperial County Transportation Commission (ICTC) through funding from SCAG, the Imperial Valley Regional Climate Action Plan (Regional CAP; 2021) was developed to address the impacts of climate change and reduce GHG emissions in the Imperial Valley region which includes the County of Imperial (County) and the cities of Brawley, Calexico, Calipatria, Holtville, El Centro, Imperial, and Westmorland. The Regional CAP is consistent with and complementary to statewide legislation and regulatory mandates, and establishes local strategies, measures, and actions aimed at reducing GHG emissions. Specifically, the Regional CAP is used as a regional guidance document for reducing GHG emissions and identifies:

- relevant state legislation requiring the documents preparation and target setting;
- actions that will be taken by the regional agencies to reduce emissions across all jurisdictions and support the funding of future emissions reducing activities; and
- measures and actions that will be taken by local governments to reduce GHG emission and meet local emissions gaps.

### 3.3.5 Imperial County General Plan

The Imperial County General Plan serves as the overall guiding policy for the County and contains goals, objectives, policies and/or programs to conserve the natural environment of Imperial County, including air quality and GHGs. The Imperial County General Plan does not contain any goals, objectives, policies or programs that directly pertain to GHGs at the project-level. The Conservation and Open Space Element includes objectives for helping the County achieve the goal of improving and maintaining the

quality of air in the region. The following summarizes the goals and policies with respect to air quality applicable to the proposed Project:

**Goal 7:** The County shall actively seek to improve the quality of air in the region.

- Objective 7.1: Ensure that all project and facilities comply with current Federal, State, and local requirements for attainment of air quality objectives.
- Objective 7.2: Develop management strategies to mitigate fugitive dust. Cooperate with all Federal, State and local agencies in the effort to attain air quality objectives.
- Objective 7.3: Work cooperatively with the EPA and CARB in evaluating air quality monitoring in Imperial County.
- Objective 7.4: Enforce and monitor environmental mitigation measures relating to air quality.
- Objective 7.5: Coordinate efforts with Imperial County Transportation Commission (ICTC) and other appropriate agencies to reduce fugitive dust from unpaved streets.
- Objective 7.6: Explore and assess strategies to reduce greenhouse gas emissions in the County.

## SECTION 4 Environmental Impacts

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### 4.1 Methodology

This impacts analysis evaluates the potential for the Project and its varying components (described in **Section 1.0**) to impact the air quality resource within the Project area and GHGs. The Final Programmatic Environmental Impact Report, Imperial County Renewable Energy and Transmission Element Update was also consulted for project impact potential and appropriate mitigation measures approved by the County.

#### 4.1.1 Construction

Construction of the Project was assumed to commence in the first quarter of 2025 and was estimated to take up to 35 months to complete. The Project would result in both short-term and long-term emissions of air pollutants associated with construction and operations. Construction emissions would include exhaust from the operation of conventional construction equipment, on-road emissions from employee vehicle trips and haul truck trips, fugitive dust as a result of grading and vehicle travel on paved and unpaved surfaces.

Construction emissions were estimated using the latest version of California Emissions Estimator Model (CalEEMod), version 2022.1. CalEEMod is a statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and GHG emissions associated with both construction and operation of a variety of land use projects. The model utilizes widely accepted federal and state models for emission estimates and default data from sources such as U.S. EPA AP-42 emission factors, CARB vehicle emission models, and studies from California agencies such as the California Energy Commission (CEC). CalEEMod inputs for construction activities consist of the data provided for offroad equipment operations detailed in **Table 2** and vehicle miles traveled detailed in **Table 3** above. Default CalEEMod inputs were used for modeling where Project-specific details were not readily ascertainable (e.g., fleet mix and trip length).

Consistent with the requirements identified in the ICAPCD CEQA Air Quality Handbook (2017) and emission calculation equations provided in ICAPCD Rule 214.2 (Paving Unpaved Public Roads Emission Reduction Credits [PERCs]), CalEEMod calculates fugitive dust from travel of construction vehicles on paved and unpaved roads using the methodology of Section 13.2.1 of USEPA's AP-42 (2011). Per ICAPCD Rule 214.2, the annual quantity of fugitive dust emissions emitted from roadway segments are calculated relative to the annual vehicle miles traveled. The estimated construction schedule and vehicle and truck trip counts associated with construction activities is detailed **Table 4**. Vehicle trips during operation would be limited to one to two workers traveling to/from the Project site daily with infrequent vendor trips for delivery of operational products and materials.

All worker, vendor, and hauling trips would occur on public roadways (i.e., not within the project construction boundary). The percentage of vehicle miles travel on paved roadways is based on the following travel routes:

- Vendors: Port of Long Beach to 855 Dogwood Road (0% Unpaved Roads)
  - I-710 to I-405
  - I-405 to I-805
  - Exit 17 B onto I-8 E
  - Exit 116 onto Dogwood Road
- Workers/Vendors: Heber to 855 Dogwood Road (0% Unpaved Roads)
  - I-86 to Dogwood Road
- Workers/Vendors: El Centro to 855 Dogwood Road (0% Unpaved Roads)
  - State Street to 8th Street
  - 8th Street to Clark Street
  - Clark Street to Heber Road
  - Heber Road to 855 Dogwood Road
- Workers/Vendors: Brawley to 855 Dogwood Road (0% Unpaved Roads)
  - Main Street to 8th Street
  - 8th Street to K Street
  - K Street to S. Imperial Avenue
  - S. Imperial Avenue to Dogwood Road
  - Dogwood Road to Schartz Road
  - Schartz Road to CA-111 S
  - CA-111 to Heber Road
  - Heber Road to CA-86/E. Main Street
  - E. Main Street to 855 Dogwood Road
- Workers: Ormat Heber Offices to 855 Dogwood Road (0% Unpaved Roads)
  - 947 Dogwood Road to 855 Dogwood Road

These routes are consistent with the statewide default assumption of 100 percent. However, an input value of 85% paved roads is utilized in the emissions model in accordance with guidance provided by the ICAPCD to account for additional fugitive dust generated on paved surfaces throughout Imperial County.

#### 4.1.2 Operations

Air emission sources associated with Project operations include the geothermal power generating unit (ITLU and OEC), VRMU, and emergency diesel equipment. The power generating unit will generate power by taking geothermal energy (e.g., heat) to vaporize liquid isopentane, which is the motive fluid that powers the turbines to create electricity. In addition, the proposed substation includes new circuit breakers that would potentially be insulated with SF<sub>6</sub>.

The primary air pollutant from the facility operations is isopentane, which is a VOC. Specifically, isopentane would be the motive fluid used to drive the turbines for the Project. Although the motive fluid system is a “closed loop” with no routine emissions into the atmosphere, nearly all of the Project’s operational ROG emissions comes from fugitive emissions of isopentane that leaks from pipes, seals, flanges, valves, and other connections and the vapor recovery system. Accordingly, the isopentane emissions due to maintenance, purging, and fugitive leaks are summarized as follows:

- **Maintenance Isopentane Emissions** - Occasionally, isopentane must be evacuated from a portion of an OEC for maintenance or repair. The OECs are divided into zones that can be

isolated and evacuated for maintenance while the isopentane remains in the rest of the system. To evacuate the isopentane from a zone for maintenance, the isopentane liquid and vapor are removed using the VRMU (with a 95% control efficiency) and held in the storage tanks. Any remaining vapors are purged from the zone using nitrogen and passes through the VRMU. The unit is not opened to the atmosphere until the vapor concentration is less than 20% of the lower explosion limit for isopentane. Maintenance isopentane emissions are estimated based on site-specific emission factors derived from previous actual emissions data.

- **Purging Isopentane Emissions** - Over time impurities build up in the motive fluid (MF). These impurities include non-condensable gases (NCG's) which decrease the operating efficiency of the units. NCGs are purged from the system using the existing VRMU. During the purging, vapors from the OECs pass through a knock-out drum and chiller to separate the condensable gases from the NCGs. The remaining gases are passed through an activated carbon bed to collect hydrocarbons before being vented to the atmosphere. The facility's current air permit requires the VRMU to achieve 95% hydrocarbon capture efficiency.
- **Fugitive Isopentane Emissions** - Fugitive isopentane emissions occur from leaks in seals, flanges, pumps, valves, and other components. It is not feasible to measure fugitive emissions directly, but fugitive emissions leaks can be quantified based on the addition of isopentane to the system to make up for the lost fluid. ORMAT tracks fluid additions, and the fluid additions that are not attributed to known non-fugitive cause are counted as fugitive emissions.

Per the Heber 2 Authority to Construct (ATC) #2217A-6 issued by the ICAPCD, site specific isopentane maintenance, purging, and fugitive emissions were calculated based on worst case quarterly emissions from the years 2019 and 2020. Maintenance and fugitive emissions were also adjusted for the decreased complexity of the new units as compared to the existing units associated with the 2019 and 2020 reported emissions (i.e., the number of seals, flanges, pumps, valves, etc. associated with the proposed Project equipment is significantly less than the existing equipment). As such, the ICAPCD applies a 50% reduction factor to 50% emission reduction factor to account for the approximately 50% fewer potential sites for leaks and equipment failure. The emissions have been converted into a per 1,000-gallon factor by using the existing system volume. As summarized in **Table 9**, the resulting Project-specific emission factors are 0.23 lbs/day/1,000 gallons for maintenance,  $1.45 \times 10^{-5}$  lbs/day/1,000 gal for purging and 0.60 lbs/day/1,000 gal for fugitive. These emission factors are assumed to be consistent with proposed Project operations.

Table 9. Project-Specific Isopentane Emission Factors

| Emission Category | Site-Specific Emission Factor Based on 2019 and 2020 Emissions (lbs/day/1,000 gallons) | Emissions Reduction Due to Reduced Complexity | Project-Specific Emission Factor |
|-------------------|--|---|----------------------------------|
| Maintenance       | 0.45   | 50%   | 0.23                             |
| Purging           | $2.9 \times 10^{-5}$   | 0%  | $1.45 \times 10^{-5}$            |
| Fugitive          | 1.20   | 50%   | 0.60                             |

Source: ICAPCD ATC #2217A-6 (September 28, 2021)

The proposed OEC and ITLU have a combined volume of approximately 82,140 gallons, and the two isopentane storage tanks have a total capacity of 40,000 gallons. Isopentane emissions are related to



the size of the system, so emissions were estimated by multiplying the total isopentane volume at the facility (i.e., 122,140 gallons) by the emission factors detailed in **Table 9**.

With respect to SF<sub>6</sub> emissions associated with operation of the substation circuit breakers, CARB amended the *Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear* regulation in 2021 to further reduce GHG emissions from gas-insulated equipment. Key provisions of the amended regulation include a phase-out schedule for new sulfur hexafluoride gas-insulated equipment (January 1, 2025 for voltage less than 145 kV, January 1, 2029 for voltage between 145 and 245 kV, and January 1, 2031 for voltage greater than 245 kV). In the case that SF<sub>6</sub> alternative technology is available and approved prior to construction, the proposed Project would not require SF<sub>6</sub> for project operations. Consistent with the International Electrotechnical Commission (IEC) standard for new equipment leakage, a 0.5% per year leakage rate is assumed (United States Environmental Protection Agency [USEPA] 2016).

Emissions associated with the auxiliary emergency diesel generator and emergency diesel fire pump are estimated using CalEEMod 2022.1 default emission factors for diesel emergency generators and fire pumps with the operational year assumed to be 2027 in the emissions model.

As presented in **Section 1.3**, the Project site will be staffed with 1-2 onsite employees. Accordingly, annual operation and maintenance trips to the site are conservatively assumed to be up to six one-way trips during weekdays and three one-way trips during weekends. Such visits to the site include inspections, equipment servicing, site maintenance, and periodic washing of the photovoltaic modules at the solar plants. As noted above for construction emissions methodology, a 85% paved roads is utilized in the Project CalEEMod emissions model to account for fugitive dust generated on paved surfaces throughout Imperial County. Indirect sources of emissions include those associated with energy consumption, water use, wastewater treatment, and solid waste disposal. However, operation of the geothermal and solar facilities would offset greenhouse gas emissions by replacing energy generated by fossil fuel power plants (i.e., the Project would generate up to 47 MW of energy that would be added to the power grid and be used in place of electricity generated by fossil fuel sources). Once operating, up to approximately 325 gallons per day (0.36 acre-feet per year) of non-potable water will be required and provided by the applicant's existing IID contract/allocation. Indirect emissions associated with operational water use are estimated using CalEEMod 2022.1 default energy intensity factors for the Colorado River Hydrologic Region. Geothermal facilities and solar farms are not known to generate substantial quantities of solid waste or wastewater. As such, Project operations solid waste and wastewater emissions would not represent a measurable increase in GHG emissions and are considered to be negligible.

## 4.2 Thresholds of Significance

The ICAPCD has established significance thresholds based on the state CEQA significance criteria. adopted guidelines for implementation of CEQA in its CEQA Air Quality Handbook (ICAPCD 2017). The ICAPCD recommended thresholds of significance are discussed below.

During operations, any development with a potential to emit criteria pollutants below significance levels defined by the ICAPCD is referred to as a "Tier I Project," and is considered to have less than significant potential adverse impacts on local air quality. For Tier I projects, the project proponent must implement

a set of feasible “standard” mitigation measures (determined by the ICAPCD) to reduce the air quality impacts to an insignificant level. A “Tier II Project” is one whose emissions exceed any of the ICAPCD thresholds. Its impact is significant, and the project proponent must select and implement all feasible “discretionary” mitigation measures (as determined by the ICAPCD) in addition to the standard measures. Tier I and Tier II daily thresholds for operational emissions are shown in **Table 10**.

Table 10. ICAPCD Daily Operational Emission Thresholds

| Pollutant  | Tier I                | Tier II                  |
|--|-----------------------|--------------------------|
| NO <sub>x</sub> and Reactive Organic Gases (ROG) | Less than 137 lbs/day | Greater than 137 lbs/day |
| PM <sub>10</sub> and SO <sub>x</sub>             | Less than 150 lbs/day | Greater than 150 lbs/day |
| CO and PM <sub>2.5</sub>                         | Less than 550 lbs/day | Greater than 550 lbs/day |

Source: ICAPCD 2017

The IPAPCD has also developed specific quantitative thresholds that apply to short-term construction activities as summarized in **Table 11**.

Table 11. ICAPCD Daily Construction Emission Thresholds

| Pollutant        | Threshold (lbs/day) |
|------------------|---------------------|
| PM <sub>10</sub> | 150                 |
| ROG              | 75                  |
| NO <sub>x</sub>  | 100                 |
| CO               | 550                 |

Source: ICAPCD 2017

The ICAPCD does not have numeric thresholds for greenhouse gas (GHG) emissions. However, Imperial County is a member of the Southern California Association of Governments which is composed of several different counties including Imperial, Los Angeles, Orange, Riverside, San Bernardino, and Ventura counties. Air districts responsible for managing air quality within the SCAG boundaries include the Antelope Valley Air Quality Management District, the Mojave Desert Air Pollution Control District, South Coast Air Pollution Control District, and the Ventura County Air Pollution Control District. Projects in Imperial County use the South Coast Air Quality Management District’s (SCAQMD’s) Interim Threshold of 10,000 MTCO<sub>2e</sub> screening level for industrial projects. In addition, based on guidance from the SCAQMD, total construction GHG emissions resulting from a project should be amortized over a period of 30 years and added to operational GHG emissions to account for their contribution to GHG emissions over the lifetime of a project.

## 4.3 Project Impacts and Mitigation Measures

### 4.3.1 Air Quality

**Impact a.** *Would the project conflict with or obstruct implementation of the applicable air quality plan?*

The air quality attainment plan (AQAP) for the SSAB, through the implementation of the Air Quality Management Plan (AQMP; previously Air Quality Attainment Plan [AQAP]) and SIP for PM<sub>10</sub>, sets forth a comprehensive program that will lead the SSAB into compliance with all federal and state air quality

standards. The AQMP control measures and related emission reduction estimates are based upon emissions projections for a future development scenario derived from land use, population, and employment characteristics defined in consultation with local governments. Conformance with the AQMP for development projects is determined by demonstrating compliance with local land use plans and/or population projections, meeting the land use designation set forth in the local General Plan, and comparing assumed emissions in the AQMP to proposed emissions.

The Project must demonstrate compliance with all ICAPCD applicable rules and regulations, as well as local land use plans and population projections. As the Project does not contain a residential component, the Project would not result in an increase in the regional population. While the Project would contribute to energy supply, which is one factor of population growth, the proposed Project is a geothermal and solar energy project and would not significantly increase employment or growth within the region.

Moreover, development of the proposed Project would increase the amount of renewable energy and help California meet its Renewable Portfolio Standard (RPS). The proposed Project would be required to comply with all applicable ICAPCD rules and requirements during construction and operation to reduce air emissions. Overall, the proposed Project would improve air quality by reducing the amount of emissions that would be generated in association with electricity production from fossil fuel burning facilities.

Furthermore, the thresholds of significance adopted by the ICAPCD, determine compliance with the goals of the attainment plans in the region. As such, emissions below the ICAPCD thresholds presented in **Table 10** and **Table 11** would not conflict with or obstruct implementation of the applicable air quality plans. The following analysis is broken out by a discussion of potential impacts during construction of the Project followed by a discussion of potential impacts during operation of the Project.

### *Construction*

The Project would emit criteria pollutants from the use of combustion sources such as diesel off-road equipment (e.g., tractors, cranes, generators, etc.), and on-road mobile sources associated with construction-related vehicle travel. Impacts to air quality would also occur during Project construction as a result of soil disturbance and fugitive dust emissions. Construction emissions vary from day-to-day depending on the number of workers, number, and types of active heavy-duty vehicles and equipment, level of activity, the prevailing meteorological conditions, and the length over which these activities occur.

Project construction is anticipated to take up to 35 months. Construction is anticipated to begin in the first quarter 2025. Project emissions were calculated in accordance with the ICAPCD's Air Quality Handbook (ICAPCD 2017). For the purposes of this analysis, short-term construction emissions were determined utilizing the latest version of the CalEEMod model (version 2022.1) based on the assumptions described in **Section 1.2** and utilizing CalEEMod defaults for calendar year average equipment emission factors as opposed to tier-specific rates (e.g., Tier 3) (refer to Attachment A for emission model results). The total unmitigated emissions generated within each year of project construction are shown in **Table 12**.

Table 12. Unmitigated Project Construction-Generated Emissions

| Construction Year | Pollutant (lbs/day) <sup>1</sup> |                 |            |                 |                    |                   |
|-------------------|----------------------------------|-----------------|------------|-----------------|--------------------|-------------------|
|                   | ROG                              | NO <sub>x</sub> | CO         | SO <sub>2</sub> | PM <sub>10</sub>   | PM <sub>2.5</sub> |
| 2025              | 27.52                            | 246.06          | 268.98     | 0.80            | 2,243.9            | 231.29            |
| 2026              | 29.55                            | 272.17          | 307.92     | 0.84            | 2,356.6            | 242.47            |
| <b>Threshold</b>  | <b>75</b>                        | <b>100</b>      | <b>550</b> | --              | <b>150</b>         | --                |
| Exceed Threshold? | No                               | Yes             | No         | --              | [Yes] <sup>2</sup> | --                |

Source: CalEEMod Results in Attachment A

Notes:

- <sup>1</sup> Emissions are representative of the maximum daily output (i.e., maximum of summer or winter results).
- <sup>2</sup> Guidance provided in the ICAPCD CEQA Air Quality Handbook (2017) specifies that the approach of the CEQA analyses for construction particulate matter impacts should be qualitative as opposed to quantitative. As such, further analysis of construction-related fugitive particulate matter is provided below.

As shown in **Table 12**, the Project's daily unmitigated construction emissions would exceed the ICAPCD thresholds for NO<sub>x</sub> and PM<sub>10</sub>. Incorporating **MM AIR-1** would ensure that the construction emissions of NO<sub>x</sub> remain below the applicable thresholds as shown in **Table 13**.

Table 13. Mitigated Project Construction-Generated Emissions

| Construction Year | Pollutant (lbs/day) <sup>1</sup> |                 |            |                 |                    |                   |
|-------------------|----------------------------------|-----------------|------------|-----------------|--------------------|-------------------|
|                   | ROG                              | NO <sub>x</sub> | CO         | SO <sub>2</sub> | PM <sub>10</sub>   | PM <sub>2.5</sub> |
| 2025              | 9.90                             | 83.42           | 466.38     | 1.12            | 2,238.7            | 226.62            |
| 2026              | 10.72                            | 87.08           | 520.46     | 1.30            | 2,351.7            | 238.04            |
| <b>Threshold</b>  | <b>75</b>                        | <b>100</b>      | <b>550</b> | --              | <b>150</b>         | --                |
| Exceed Threshold? | No                               | No              | No         | --              | [Yes] <sup>2</sup> | --                |

Source: CalEEMod Results in Attachment A

Notes:

- <sup>1</sup> Emissions are representative of the maximum daily output (i.e., maximum of summer or winter results).
- <sup>2</sup> Guidance provided in the ICAPCD CEQA Air Quality Handbook (2017) specifies that the approach of the CEQA analyses for construction particulate matter impacts should be qualitative as opposed to quantitative. As such, further analysis of construction-related fugitive particulate matter is provided below.

Specifically, **MM AIR-1** requires that all off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, meet, at a minimum, the Tier 4 Final California Emission Standards for Off-Road Compression-Ignition Engines as specified in C.C.R., Title 13, section 2423(b)(1) unless such engine is not available for a particular item of equipment. In the event a Tier 4 Final engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would provide NO<sub>x</sub> and particulate matter emissions that are equivalent to Tier 4 engine (refer to Attachment A for emission model results).

Due to the assumption of 85% paved roads built into the Project CalEEMod model, construction activities are shown to exceed the ICAPCD threshold for PM<sub>10</sub>. Specifically, CalEEMod results for the maximum daily emissions of PM<sub>10</sub> attributed to fugitive dust is estimated at 2,349.4 lbs/day whereas the PM<sub>10</sub> attributed to combustion engine emissions is 2.27 lbs/day (which is below the ICAPCD threshold

for PM<sub>10</sub>). However, guidance provided in the ICAPCD CEQA Air Quality Handbook (2017) specifies that the approach of the CEQA analyses for construction particulate matter impacts should be qualitative as opposed to quantitative. Further, the ICAPCD recommends the implementation of effective and comprehensive mitigation inclusive of standard mitigation measures for construction equipment and fugitive PM<sub>10</sub> in accordance with ICAPCD Regulation VIII for the control of fugitive dust as detailed in **MM AQ-2**. Regulation VIII requires all unpaved roadways, on- and off-site, to be conditioned and maintained with soil stabilizers to reduce dust opacity to no more than 20 percent; all unpaved disturbed surfaces, on- and off-site, to be stabilized with a dust suppressant, watering, or soil stabilizers to reduce opacity to no greater than 20 percent. Compliance with Regulation VIII dust control measures as detailed in **MM AQ-2** would further minimize air quality impacts. In addition, the ICAPCD recommends implementation of additional discretionary mitigation measures for fugitive PM<sub>10</sub> control as applicable. Accordingly, implementation of **MM AQ-3** would require additional dust suppression methods (such as water or chemical stabilization) on all unpaved roads associated with construction activities, **MM AQ-4** requires development and implementation of a dust suppression management plan prior to any earthmoving activity, and **MM AQ-5** limits the speed of all vehicles operating onsite on dirt roads to 15 miles per hour or less. Accordingly, with implementation of **MM AQ-1**, **MM AQ-2**, **MM AQ-3**, **MM AQ-4**, and **MM AQ-5**, the Project would not exceed the ICAPCD's thresholds of significance during construction. As described above, conformance with the AQMP for development projects is determined by demonstrating compliance with local land use plans and/or population projections and comparing assumed emissions in the AQMP to proposed emissions. Because the proposed Project complies with local land use plans and population projections and would not exceed ICAPCD's regional mass daily emissions thresholds, construction of the proposed Project would not conflict with or obstruct implementation of the applicable air quality plan. Impacts would be less than significant with mitigation.

### Operation

Implementation of the projects would result in long-term operational emissions of criteria air pollutants. Specifically, isopentane emissions will occur due to maintenance, purging, and fugitive leaks. Operation of auxiliary engines including the emergency diesel generator and emergency diesel fire pump will also result in emissions of criteria pollutants. **Table 14** summarizes the estimated emissions of isopentane at the facility.

Table 14. Isopentane Emission Estimate

| Emission Category | System Motive Fluid Volume (Gallons) | Project-Specific Emission Factor (lbs/day/1000 gallons) | Isopentane Emissions (lbs/day) |
|-------------------|--------------------------------------|---|--------------------------------|
| Maintenance       | 82,140 (OEC/ITLU)                    | 0.23  | 18.48                          |
| Purging           | 82,140 (OEC/ITLU)                    | 1.45 x 10 <sup>-5</sup>                                 | 0.001                          |
| Fugitive          | 122,140 (OEC/ITLU & Tanks)           | 0.60  | 49.28                          |
| <b>TOTAL</b>      |                                      |   | <b>67.77</b>                   |

With the exception of isopentane emissions detailed in **Table 14**, all other operational emissions were modeled utilizing CalEEMod 2022.1. Accordingly, long-term combined operational emissions attributable to the Project are summarized in **Table 15** and compared to the operational significance thresholds promulgated by the ICAPCD.

Table 15. Unmitigated Project Operational Emissions

| Emission Source                  | Pollutant (lbs/day) <sup>1</sup> |                 |               |                 |                  |                   |
|----------------------------------|----------------------------------|-----------------|---------------|-----------------|------------------|-------------------|
|                                  | ROG                              | NO <sub>x</sub> | CO            | SO <sub>2</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
| Area <sup>2</sup>                | 38.56                            | 1.98            | 234.91        | 0.01            | 0.42             | 0.32              |
| Mobile <sup>3</sup>              | 0.03                             | 0.02            | 0.26          | <0.005          | 6.87             | 0.69              |
| Energy <sup>4</sup>              | 0.00                             | 0.00            | 0.00          | 0.00            | 0.00             | 0.00              |
| Stationary <sup>5</sup>          | 0.12                             | 0.34            | 0.31          | <0.005          | 0.02             | 0.02              |
| Fugitive Isopentane <sup>6</sup> | 67.77                            | 0.00            | 0.00          | 0.00            | 0.00             | 0.00              |
| <b>TOTAL</b>                     | <b>106.48</b>                    | <b>2.34</b>     | <b>235.56</b> | <b>0.02</b>     | <b>7.31</b>      | <b>1.03</b>       |
| <b>Threshold</b>                 | <b>137</b>                       | <b>137</b>      | <b>550</b>    | <b>150</b>      | <b>150</b>       | <b>550</b>        |
| Exceed Threshold?                | No                               | No              | No            | No              | No               | No                |

Source: CalEEMod Results in Attachment A

## Notes:

- Daily emissions are representative of the maximum daily output (i.e., maximum of summer or winter results).
- Area emissions are inclusive of landscape maintenance equipment using CalEEMod default factors.
- Mobile emissions are inclusive of daily estimate vehicle miles travels associated with operations (i.e., average of 6 one-way trips per weekday and 3 one-way trips per day on Saturdays and Sundays with an estimated trip length of 10.2 miles).
- The Project is a renewable energy project and does not require energy from the grid.
- Stationary emissions are associated with operation of emergency diesel generator (50 hours/year amortized over 365 days/year) and emergency diesel fire pump (40 hours/year amortized over 365 days/year)
- Isopentane emissions are reported as ROG.

Project-generated increases in emissions would be predominately associated with isopentane emissions and emissions related to landscape equipment use for routine maintenance work. As shown in **Table 15**, the Project's combined operational emissions would not exceed the ICAPCD thresholds for CO, ROG, NO<sub>x</sub>, PM<sub>10</sub>, SO<sub>2</sub>, and PM<sub>2.5</sub>. Although no significant air quality impact would occur during operation, the Project would be required to comply with Regulation VIII as detailed in **MM AQ-2** that would further reduce fugitive dust emissions associated with the Project. In addition, implementation of **MM AQ-5** would limit the speed of all vehicles operating onsite on dirt roads to 15 miles per hour or less and **MM AQ-6** would ensure an Operational Dust Control Plan is implemented.

As described above, conformance with the AQMP for development projects is determined by demonstrating compliance with local land use plans and/or population projections and comparing assumed emissions in the AQMP to proposed emissions. Because the proposed projects comply with local land use plans and population projections and would not exceed ICAPCD's regional mass daily emissions thresholds, operation of the Project would not conflict with or obstruct implementation of the applicable air quality plan. Impacts would be less than significant.

*Mitigation Measure(s)*

**MM AQ-1 (Construction Equipment).** All off-road construction diesel engines not registered under CARB's Statewide Portable Equipment Registration Program, which have a rating of 50 horsepower or more, shall meet, at a minimum, the Tier 4 Final California Emission Standards for Off-road Compression-Ignition Engines as specified in C.C.R., Title 13, section 2423(b)(1) unless such engine is not available for a particular item of equipment. In the event a Tier 4 Final engine is not available for any off-road engine larger than 100 horsepower, that engine shall be equipped with retrofit controls that would

provide NO<sub>x</sub> and particulate matter emissions that are equivalent to Tier 4 engine. Drill rig engines shall meet a minimum of Tier 4 Interim California Emission Standards. A list of the construction equipment, including all off-road equipment utilized at the project site by make, model, year, horsepower and expected/actual hours of use, and the associated EPA Tier shall be submitted to the County Planning and Development Services Department and ICAPCD prior to the issuance of a grading permit. The equipment list shall be submitted periodically to ICAPCD to perform a NO<sub>x</sub> analysis. ICAPCD shall utilize this list to calculate air emissions to verify that equipment use does not exceed the significance thresholds. The Planning and Development Services Department and ICAPCD shall verify implementation of this measure.

**MM AQ-2 (Fugitive Dust Control).** Pursuant to ICAPCD, all construction sites, regardless of size, must comply with the requirements contained within Regulation VIII – Fugitive Dust Control Measures. ICAPCD will verify implementation and compliance with these measures as part of the grading permit review/approval process.

#### **ICAPCD Standard Measures for Fugitive Dust (PM<sub>10</sub>) Control**

- All disturbed areas, including bulk material storage, which is not being actively utilized, shall be effectively stabilized and visible emissions shall be limited to no greater than 20 percent opacity for dust emissions by using water, chemical stabilizers, dust suppressants, tarps, or other suitable material, such as vegetative ground cover.
- All on-site and offsite unpaved roads will be effectively stabilized, and visible emissions shall be limited to no greater than 20 percent opacity for dust emissions by paving, chemical stabilizers, dust suppressants, and/or watering.
- All unpaved traffic areas 1 acre or more with 75 or more average vehicle trips per day will be effectively stabilized and visible emissions shall be limited to no greater than 20 percent opacity for dust emissions by paving, chemical stabilizers, dust suppressants, and/or watering.
- The transport of bulk materials shall be completely covered unless 6 inches of freeboard space from the top of the container is maintained with no spillage and loss of bulk material. In addition, the cargo compartment of all haul trucks is to be cleaned and/or washed at delivery site after removal of bulk material.
- All track-out or carry-out will be cleaned at the end of each workday or immediately when mud or dirt extends a cumulative distance of 50 linear feet or more onto a paved road within an urban area.
- Movement of bulk material handling or transfer shall be stabilized prior to handling or at points of transfer with application of sufficient water, chemical stabilizers, or by sheltering or enclosing the operation and transfer line.
- The construction of any new unpaved road is prohibited within any area with a population of 500 or more unless the road meets the definition of a temporary unpaved road. Any temporary unpaved road shall be effectively stabilized, and visible emissions shall be limited to no greater than 20 percent opacity for dust emission by paving, chemical stabilizers, dust suppressants, and/or watering.

### Standard Mitigation Measures for Construction Combustion Equipment

- Use of alternative fueled or catalyst equipped diesel construction equipment, including all off-road and portable diesel-powered equipment.
- Minimize idling time either by shutting equipment off when not in use or reducing the time of idling to 5 minutes as a maximum.
- Limit, to the extent feasible, the hours of operation of heavy-duty equipment and/or the amount of equipment in use.
- When commercially available, replace fossil fueled equipment with electrically driven equivalents (provided they are not run via a portable generator set).

**MM AQ-3 (Dust Suppression).** The project applicant shall employ a method of dust suppression (such as water or chemical stabilization) approved by ICAPCD. All unpaved roads associated with construction shall be effectively stabilized of dust emissions using stabilizers/suppressant before the commencement of all construction phases. This will be conducted monthly at a rate of 0.1 gallon/ square yard of chemical dust suppressant. The project applicant shall apply chemical stabilization as directed by the product manufacturer to control dust between the panels as approved by ICAPCD, and other non-used areas (exceptions will be the paved entrance and parking area, and Fire Department access/emergency entry/exit points as approved by Fire/Office of Emergency Services [OES] Department).

**MM AQ-4 (Dust Suppression Management Plan).** Prior to any earthmoving activity, the applicant shall submit a construction dust control plan and obtain ICAPCD and Imperial County Planning and Development Services Department (ICPDS) approval.

**MM AQ-5 (Speed Limit).** During construction and operation of the proposed project, the applicant shall limit the speed of all vehicles operating onsite on unpaved roads to 15 miles per hour or less.

**MM AQ-6 (Operational Dust Control Plan).** Prior to issuance of a Certificate of Occupancy, the applicant shall submit an operations dust control plan and obtain ICAPCD and ICPDS approval. ICAPCD Rule 301 Operational Fees apply to any project applying for a building permit. At the time that building permits are submitted for the proposed project, ICAPCD shall review the project to determine if Rule 310 fees are applicable to the project.

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

#### *Construction*

As shown in **Table 6**, the criteria pollutants for which the project area is in state nonattainment under applicable air quality standards are O<sub>3</sub> and PM<sub>10</sub>. The ICAPCD's application of thresholds of significance for criteria air pollutants is relevant to the determination of whether a project's individual emissions would have a cumulatively significant impact on air quality. As discussed above and summarized in **Table 13**, with implementation of **MM AQ-1**, **MM AQ-2**, **MM AQ-3**, **MM AQ-4**, and **MM AQ-5**, the Project's daily mitigated construction emissions would not exceed the ICAPCD thresholds (note that although the CalEEMod results for PM<sub>10</sub> emissions are shown to exceed the ICAPCD threshold, the ICAPCD recommends analyzing construction particulate matter qualitatively rather than quantitatively as



discussed in detail above). Therefore, the Project's potential to result in a cumulatively considerable net increase of any criteria pollutant during construction is considered less than significant with mitigation.

### *Operations*

As discussed above and summarized in **Table 15**, the Project's daily operations emissions would not exceed the ICAPCD thresholds. In addition, the Project must comply with the requirements of ICAPCD Regulation VIII for the control of fugitive dust as detailed in **MM AQ-2**, which would further reduce impacts associated with fugitive dust emissions as would implementation of **MM AQ-5** which would require implementation of an Operational Dust Control Plan and **MM AQ-6** which limits the speed on onsite unpaved roads. Therefore, the Project's potential to result in a cumulatively considerable net increase of any criteria pollutant during operations is considered less than significant.

### *Mitigation Measure(s)*

**MM AQ-1 (Construction Equipment)**

**MM AQ-2 (Fugitive Dust Control)**

**MM AQ-3 (Dust Suppression)**

**MM AQ-4 (Dust Suppression Management Plan)**

**MM AQ-5 (Speed Limit)**

**MM AQ-6 (Operational Dust Control Plan)**

**Impact c.      *Would the project expose sensitive receptors to substantial pollutant concentrations?***

### *Construction*

As summarized in **Table 8** above, the nearest sensitive land use to the Project area is a single-family residence located approximately 540 feet from the Hever 2 Parasitic Solar Facility. Construction of the Project would result in temporary, short-term project-generated emissions of DPM, ROG, NO<sub>x</sub>, CO, and PM<sub>10</sub> from the exhaust of offroad, heavy-duty diesel equipment and construction-related truck traffic. The portion of the SSAB which encompasses the project area is designated as a nonattainment area for federal O<sub>3</sub> and PM<sub>2.5</sub> standards and is also a nonattainment area for the state standards for O<sub>3</sub> and PM<sub>10</sub>. Thus, existing O<sub>3</sub> and PM<sub>10</sub> levels in the SSAB are at unhealthy levels during certain periods. However, as summarized above and shown in **Table 13**, with implementation of **MM AQ-1** through **MM AQ-5**, the Project would not exceed the ICAPCD significance thresholds for construction emissions. The health effects associated with O<sub>3</sub> are generally associated with reduced lung function. Because the Project would not involve construction activities that would result in O<sub>3</sub> precursor emissions (ROG or NO<sub>x</sub>) in excess of the ICAPCD thresholds, the Project is not anticipated to substantially contribute to regional O<sub>3</sub> concentrations and the associated health impacts.

CO tends to be a localized impact associated with congested intersections. In terms of adverse health effects, CO competes with oxygen, often replacing it in the blood, reducing the blood's ability to transport oxygen to vital organs. The results of excess CO exposure can include dizziness, fatigue, and impairment of central nervous system functions. The Project would not involve activities that would result in CO emissions in excess of the ICAPCD thresholds. Thus, the Project CO emissions during construction would not contribute to the health effects associated with this pollutant.

Particulate matter (PM<sub>10</sub> and PM<sub>2.5</sub>) contains microscopic solids or liquid droplets that are so small that they can get deep into the lungs and cause serious health problems. Particulate matter exposure has been linked to a variety of problems, including premature death in people with heart or lung disease, nonfatal heart attacks, irregular heartbeat, aggravated asthma, decreased lung function, and increased respiratory symptoms such as irritation of the airways, coughing, or difficulty breathing. Particulate exhaust emissions from diesel-fueled engines (i.e., DPM) were identified as a TAC by CARB in 1998. For construction-type activity, DPM is the primary TAC of concern. PM<sub>10</sub> exhaust is considered a surrogate for DPM as all diesel exhaust is considered to be DPM. As with O<sub>3</sub> and NO<sub>x</sub>, with implementation of **MM AQ-1** through **MM AQ-5**, the Project would not generate emissions of PM<sub>10</sub> or PM<sub>2.5</sub> that would exceed the ICAPCD's thresholds, and thus are not expected to cause any increase in related health effects for these pollutants.

Additionally, fugitive dust can lead to the spread of San Joaquin Valley Fever (Valley Fever), a potential health hazard caused by a fungus that lives in certain soil types throughout California. The California Department of Public Health- Occupational Health Branch and the Division of Occupational Safety and Health of the Department of Industrial Relations (Cal/OSHA) provides recommendations to limit risk from Valley Fever. The measures required to comply with ICAPCD Regulation VIII are consistent with those recommended to limit risk to Valley Fever. For example, Cal/OSHA recommends the adoption of site plans and work practices that reduce worker exposure. Cal/OSHA further provides that measures that may be implemented include, but are not limited to, the following: minimize the area of soil disturbed; use of water or other soil stabilizer to reduce airborne dust; stabilize all spoils piles by tarping or other methods; cleaning tools, equipment, and vehicles before transporting offsite. These measures and work practices will be implemented at the Project site pursuant to compliance with ICAPCD Regulation VIII. As such, construction activities associated with the Project are not expected to cause any increase in Valley Fever to workers or sensitive receptors in the area.

In summary, Project construction would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Impacts would be less than significant with mitigation.

### *Operation*

Operation of the proposed Project would not result in the development of any substantial sources of air toxics. Stationary sources associated with the Project include limited use of an emergency diesel generator and emergency diesel fire pump. Further, operation of the Project would not attract additional mobile sources that spend long periods queuing and idling at the site. With respect to isopentane, according to the Clean Air Act Section 112(b), Hazardous Air Pollutants, isopentane is not listed or considered a HAP. As such, onsite combined Project emissions would not result in significant concentrations of pollutants at nearby sensitive receptors as the predominant operational emissions associated with the proposed projects would be routine maintenance work. Therefore, the Project would not be a substantial source of TACs. The proposed Project would not result in a high carcinogenic or non-carcinogenic risk during operation.

CO concentrations close to congested intersections that experience high levels of traffic and elevated background concentrations may reach unhealthy levels, affecting nearby sensitive receptors. Areas of

high CO concentrations, or “hot spots,” are typically associated with intersections that are projected to operate at unacceptable levels of service during the peak commute hours. CO concentration in the SSAB is designated as an attainment area. Detailed modeling of Project-specific CO “hot spots” is not necessary and thus this potential impact is addressed qualitatively. The proposed Project is anticipated to result in no more than six daily traffic trips. Thus, the proposed Project would not generate traffic volumes at any intersection that would result in a likelihood of the Project traffic contributing to CO “hot spots”.

In summary, Project operations would not result in a potentially significant contribution to regional concentrations of nonattainment pollutants and would not result in a significant contribution to the adverse health impacts associated with those pollutants. Impacts would be less than significant.

#### *Mitigation Measure(s)*

##### **MM AQ-1 (Construction Equipment)**

##### **MM AQ-2 (Fugitive Dust Control)**

##### **MM AQ-3 (Dust Suppression)**

##### **MM AQ-4 (Dust Suppression Management Plan)**

##### **MM AQ-5 (Speed Limit)**

***Impact d. Would the project result in other emissions (such as those leading to odors) adversely affecting a substantial number of people?***

#### *Construction*

Geothermal fluid can release various non-condensable gases such as H<sub>2</sub>S. Hot water, steam, particulate, and/or gases that could emanate from a typical geothermal well during drilling, testing, and cleanout in the Casa Diablo Geothermal Resource Area could contain several minerals and other naturally occurring chemicals. However, most of these chemicals are present only in trace amounts and would not pose a health hazard to the surrounding environment. H<sub>2</sub>S emissions would be the most important non-condensable gas from a health-risk and odor nuisance standpoint. The potential exists that this gas and other non-condensable gases may be emitted intermittently on a short-term and temporary basis during drilling. During well cleanout and flow testing, geothermal fluids would likely be pumped into large tanks. H<sub>2</sub>S may temporarily be released from the geothermal fluid for several hours to up to 30 days during these activities. The local H<sub>2</sub>S emissions during these activities could exceed the ICAPCD sulfur compound emission standard (Rule 405) of 0.2 percent by volume (calculated as SO<sub>2</sub> and measured at a point of discharge) and could produce an objectionable “rotten egg” odor in the immediate vicinity of each well. However, these concentrations would not be expected to pose a health hazard and would not reach far beyond the vicinity of the wells under normal conditions. In addition, potential H<sub>2</sub>S emissions resulting from these activities would be temporary at each well development site and would occur for a relatively short period of several hours to up to 45 days at each well site.

Construction of the Project components would also result in short-term diesel exhaust emissions from on-site heavy-duty equipment and from material deliveries and debris removal, which could result in the creation of objectionable odors. These activities would be temporary or periodic, and spatially dispersed, and any associated odors would dissipate quickly from the sources.

The closest sensitive receptor to the Project site is a resident located off Jasper Road, approximately 540 feet from the Heber 2 Parasitic Solar Facility and approximately 1,000 feet from the nearest producing well site. Therefore, given the temporary nature of construction activities and the lack of sensitive receptors in the immediate vicinity of Project components, odor nuisances that would be associated with the Project construction activities are expected to be negligible and impacts would be less than significant.

#### *Operation*

According to ICAPCD's Air Quality Handbook (2017), land uses associated with odor complaints include wastewater treatment plants, sanitary landfills, composting stations, feedlots, asphalt plants, painting/coating operations (auto body shops), and rendering plants. The proposed Project does not include any of these types of operations and would not be expected to be a major source of odor impacts. During normal operations, geothermal fluid would be contained within a closed-loop heat exchanger system and reinjected back into the geothermal reservoir. Thus, odors associated with geothermal fluids would not be expected during normal operations. Isopentane has a gasoline-like odor which could be considered objectionable. However, the closest residential sensitive receptors are located more than 3,000 feet from the proposed Dogwood power plant site. Any associated odors would dissipate quickly from the sources and is not expected to affect a substantial number of people. As such impacts during operations would be less than significant.

#### *Mitigation Measure(s)*

None Required

### 4.3.2 Greenhouse Gas

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

#### *Construction Emissions*

Construction of the proposed Project would generate GHG emissions over a two-year construction period. Exhaust emissions would result from construction equipment and machinery as well as from vehicular traffic generated by construction activities. Construction and operation GHG emissions were estimated using SCAQMD's CalEEMod 2022.1 model (refer to Attachment A) based on assumptions detailed in **Section 1.2**, including the Project's construction schedule and operation activities. Short-term construction emissions (e.g., off-road equipment and vehicle trips) and annual operation emissions associated with the proposed Project were evaluated. For all GHG emissions assumptions and calculations, see Attachment A. Based on the results of this modeling, construction emissions would result in a maximum of 17,592 MTCO<sub>2</sub>e per year. Total project GHG emissions for construction are shown in **Table 16**.

Table 16. Estimated Project Construction GHG Emissions

| Construction Year | GHG<br>(MTCO <sub>2</sub> e/year) |
|-------------------|-----------------------------------|
| 2025              | 17,592                            |
| 2026              | 7,606.1                           |
| <b>TOTAL</b>      | <b>25,198</b>                     |

Source: CalEEMod Results in Attachment A

### *Operational and Maintenance Emissions*

As presented in **Section 1.3**, the proposed Project would be staffed by 1-2 personnel. Annual operation and maintenance trips to the Project site would be negligible, adding up to six trips per day to the existing operations at the plant. Additional sources of GHG emissions associated with operations include those related to landscape equipment use for routine maintenance work, water use, and operation of auxiliary stationary equipment (i.e., emergency diesel generator and emergency diesel fire pump) as estimated using CalEEMod. These emissions are estimated to contribute approximately 97 MTCO<sub>2</sub>e per year.

The proposed substation includes new circuit breakers that would potentially be insulated with SF<sub>6</sub>. Note that CARB amended the *Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear* regulation in 2021 to further reduce GHG emissions from gas-insulated equipment. Key provisions of the amended regulation include a phase-out schedule for new sulfur hexafluoride gas-insulated equipment (January 1, 2025 for voltage less than 145 kV, January 1, 2029 for voltage between 145 and 245 kV, and January 1, 2031 for voltage greater than 245 kV). In the case that SF<sub>6</sub> alternative technology is available and approved prior to construction, the proposed Project would not require SF<sub>6</sub> for project operations. For the purpose of this analysis, it is assumed that up to three circuit breakers will be insulated with SF<sub>6</sub> with an estimated 25 pounds of SF<sub>6</sub> gas per circuit breaker resulting in a total of 75 pounds of SF<sub>6</sub> gas required at the site. Consistent with the IEC standard for new equipment leakage, a 0.5% per year leakage rate is assumed (USEPA 2016). Accordingly, an estimated 0.375 pounds of SF<sub>6</sub> would be released annually. Using the GWP for SF<sub>6</sub> of 23,300 as summarized in **Table 7 (above)**, annual emissions of 0.375 pounds of SF<sub>6</sub> gas would be equivalent to approximately 3.96 metric tons carbon dioxide equivalent (MTCO<sub>2</sub>e).

### *Amortized Annual Emissions*

As summarized in **Table 16** above, total GHG construction emissions would be approximately 25,198 MTCO<sub>2</sub>e. In accordance with industry standard, the total GHG emissions from construction were amortized (i.e., averaged annually) over a 30-year timeframe, with a resulting annual emission of 839.93 MTCO<sub>2</sub>e per year. **Table 17** presents the total annual GHG emissions for the proposed project are estimated to be 940.89 MTCO<sub>2</sub>e per year for the duration of the Project.

Table 17. Proposed Project Amortized Annual GHG Emissions

| Emission Source                                       | GHG<br>(MTCO <sub>2</sub> e/year) |
|---|-----------------------------------|
| Construction (amortized over 30-year life of Project) | 839.93                            |
| Operations (i.e., mobile, area, water)                | 97                                |
| Leaking SF <sub>6</sub>                               | 3.96                              |
| <b>TOTAL</b>  | <b>940.89</b>                     |

As summarized in **Section 4.2**, the ICAPCD do not have numeric thresholds for GHG emissions for CEQA. Per CEQA Guidelines Section 15064(h)(3), a project's incremental contribution to a cumulative impact can be found not cumulatively considerable if the project will comply with an approved plan or mitigation program that provides specific requirements that will avoid or substantially lessen the cumulative problem within the geographic area of the project. To qualify, such a plan or program must be specified in law or adopted by the public agency with jurisdiction over the affected resources through a public review process to implement, interpret, or make specific the law enforced or administered by the public agency. Examples of such programs include a "air quality attainment or maintenance plan and/or plans or regulations for the reduction of greenhouse gas emissions." Put another way, CEQA Guidelines Section 15064(h)(3) allows a lead agency to make a finding of less than significance for GHG emissions if a project complies with regulatory programs to reduce GHG emissions.

In the absence of any adopted numeric threshold, the significance of the proposed project's GHG emissions is evaluated consistent with CEQA Guidelines Section 15064.4(b) by considering whether the proposed project complies with applicable plans, policies, regulations, and requirements adopted to implement a statewide, regional, or local plan for the reduction or mitigation of GHG emissions. The *Imperial Valley Regional Climate Action Plan* (Regional CAP; Ascent Environmental 2021) addresses the impacts of climate change and reduce GHG emissions in the Imperial Valley region which includes the County of Imperial (County) and the cities of Brawley, Calexico, Calipatria, Holtville, El Centro, Imperial, and Westmorland. The Regional CAP is consistent with and complementary to statewide legislation and regulatory mandates, and establishes local strategies, measures, and actions aimed at reducing GHG emissions. Accordingly, the proposed Project is evaluated against the Regional CAP and the CARB Scoping Plan. Measures included in the Regional CAP and CARB Scoping Plan would indirectly address GHG emission levels associated with construction activities, including the phasing-in of cleaner technology for diesel engine fleets (including construction equipment) and the development of a low-carbon fuel standard. Policies formulated under the mandate of AB 32 that apply to construction-related activity either directly or indirectly, are assumed to be implemented statewide and would affect the Project should those policies be implemented before construction begins. Specifically, implementation of AB 32 control measures for reduced vehicle emissions would decrease GHG emissions from the Project. In addition, the Project is a renewable energy project which supports the Regional Plan GHG reduction measures to increase renewable and zero-carbon energy generation including installation of utility scale solar and geothermal energy as a particular focus of GHG Reduction Measures E-2.1 and -2.2.

Regarding management of proposed-project-related SF<sub>6</sub>, the applicant would be required to comply with CARB Regulation for *Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear* (Title

17, Sections 95350-95359 of the California Code of Regulations). Compliance with this regulatory measure would ensure consistency with intent of Scoping Plan Measure H-6, *High Global Warming Potential Gas Reductions from Stationary Sources*. Inventories of SF<sub>6</sub> that would be associated with the proposed project would be documented and annually reported to USEPA and CARB. Accordingly, compliance with the Scoping Plan Measure H-6 requirements would ensure that the proposed Project would not conflict with AB 32 or SB 32.

Although not directly applicable to the proposed project, the proposed project would not conflict with population growth projections of the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS), or its goals associated with GHG reductions. Specifically, the Project would not contribute to population growth outside of those projections. As such, the Project would be consistent with the current land use designation for the Project site and would not create housing or otherwise lead to substantial unplanned population growth in the vicinity and is considered consistent with the GHG reduction goals of the 2020-2045 RTP/SCS.

The plan consistency analysis demonstrates that the Project is consistent with plans, policies, regulations and GHG reduction actions/strategies outlined in the Regional CAP, CARB's Scoping Plan, SCAG's 2020-2045 RTP/SCS, and CARB Regulation for Reducing Sulfur Hexafluoride. As the proposed Project would not conflict with applicable plans, policies, and regulations adopted for the purpose of reducing emissions of GHGs, the proposed project's impacts related to GHG emissions would be less than significant. Further, based on the results of the quantitative analysis as described above, the Project would result in 940.89 MTCO<sub>2e</sub> emissions per year (with construction emissions amortized over 30 years). These emissions are significantly less than the screening threshold of 10,000 MTCO<sub>2e</sub> per year screening level for industrial projects often used for projects in Imperial County. Because the Project is consistent and does not conflict with the applicable plans, policies, and regulations, and because the Project's incremental increase in GHG emissions is below the 10,000 MTCO<sub>2e</sub> per year screening threshold for industrial projects, the Project's incremental increase in GHG emissions of 940.89 MTCO<sub>2e</sub> (construction emissions amortized over 30 years) would be less than significant.

#### *Mitigation Measure(s)*

None Required

#### ***Impact b. Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?***

As described above, California has enacted several pieces of legislation that relate to GHG emissions and climate change, much of which sets aggressive goals for GHG reductions within the state. The first and most far-reaching is AB 32, now followed by SB 32, in which CARB must ensure that statewide GHG emissions are reduced to 40 percent below the 1990 level by 2030. While AB 32 establishes control measures that would apply to light, medium, and heavy-duty vehicles, and the proposed project would operate those types of vehicles, these measures are being implemented at the state level and the proposed project would not interfere with the implementation of the control measures. Implementation of AB 32 control measures for reduced vehicle emissions would decrease GHG emissions from the Project.

As also described above, CARB approved additional regulation to reduce SF<sub>6</sub> emissions from gas insulated switchgear, implementing Measure H-6 of the AB 32 Scoping Plan. The Project is required to

comply with this regulation, thus reducing GHG emissions and being consistent with the AB 32 Scoping Plan, the Scoping Plan update, and the *Regulation for Reducing Sulfur Hexafluoride Emissions from Gas Insulated Switchgear* (Title 17, Sections 95350-95359 of the California Code of Regulations). Accordingly, the proposed Project would be conducted in compliance with applicable plans, policies and regulations adopted for the purpose of reducing the emissions of GHGs and impacts would be less than significant.

*Mitigation Measure(s)*

None Required



## SECTION 5 References

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# Attachment A CalEEMod Air Quality and GHG Emissions Data

# Dogwood v2 Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                  |
|-----------------------------|--|
| Project Name                | Dogwood v2                             |
| Construction Start Date     | 1/10/2025                              |
| Operational Year            | 2027                                   |
| Lead Agency                 | —                                      |
| Land Use Scale              | Project/site                           |
| Analysis Level for Defaults | County                                 |
| Windspeed (m/s)             | 3.40                                   |
| Precipitation (days)        | 4.80                                   |
| Location                    | 32.71374504137074, -115.53951194382259 |
| County                      | Imperial                               |
| City                        | Unincorporated                         |
| Air District                | Imperial County APCD                   |
| Air Basin                   | Salton Sea                             |
| TAZ                         | 5611                                   |
| EDFZ                        | 19                                     |
| Electric Utility            | Imperial Irrigation District           |
| Gas Utility                 | Southern California Gas                |
| App Version                 | 2022.1.1.26                            |

## 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 |
|------------------------|-------|----------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| General Heavy Industry | 5,401 | 1000sqft | 124         | 5,401,440             | 0.00                   | 0.00                           | —          | —           |

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

| Sector       | #   | Measure Title             |
|--------------|-----|---------------------------|
| Construction | C-5 | Use Advanced Engine Tiers |

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T  | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2   | CO2T    | CH4  | N2O  | R    | CO2e    |
|---------------------|------|------|------|------|------|-------|-------|--------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —      | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| Unmit.              | 35.6 | 29.5 | 270  | 308  | 0.84 | 7.38  | 2,349 | 2,357  | 6.82   | 236    | 242    | —    | 84,068  | 84,068  | 2.54 | 4.17 | 80.7 | 85,446  |
| Mit.                | 11.0 | 10.7 | 84.5 | 520  | 1.30 | 2.27  | 2,349 | 2,352  | 2.26   | 236    | 238    | —    | 128,360 | 128,360 | 4.34 | 4.53 | 80.7 | 129,891 |
| % Reduced           | 69%  | 64%  | 69%  | -69% | -55% | 69%   | —     | < 0.5% | 67%    | —      | 2%     | —    | -53%    | -53%    | -71% | -9%  | —    | -52%    |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —      | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| Unmit.              | 35.4 | 29.4 | 272  | 304  | 0.84 | 7.38  | 2,349 | 2,357  | 6.82   | 236    | 242    | —    | 83,891  | 83,891  | 2.55 | 4.17 | 2.09 | 85,198  |
| Mit.                | 10.8 | 10.5 | 87.1 | 517  | 1.30 | 2.27  | 2,349 | 2,352  | 2.26   | 236    | 238    | —    | 128,184 | 128,184 | 4.34 | 4.53 | 2.09 | 129,643 |
| % Reduced           | 69%  | 64%  | 68%  | -70% | -55% | 69%   | —     | < 0.5% | 67%    | —      | 2%     | —    | -53%    | -53%    | -71% | -9%  | —    | -52%    |
| Average Daily (Max) | —    | —    | —    | —    | —    | —     | —     | —      | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| Unmit.              | 31.2 | 25.9 | 230  | 250  | 0.73 | 6.89  | 1,832 | 1,839  | 6.37   | 184    | 190    | —    | 75,117  | 75,117  | 2.33 | 3.43 | 28.7 | 76,226  |
| Mit.                | 9.30 | 8.99 | 76.7 | 422  | 1.01 | 1.94  | 1,832 | 1,834  | 1.93   | 184    | 186    | —    | 105,045 | 105,045 | 3.54 | 3.68 | 28.7 | 106,258 |
| % Reduced           | 70%  | 65%  | 67%  | -69% | -38% | 72%   | —     | < 0.5% | 70%    | —      | 2%     | —    | -40%    | -40%    | -52% | -7%  | —    | -39%    |

|              |      |      |      |      |      |      |     |        |      |      |      |   |        |        |      |      |      |        |
|--------------|------|------|------|------|------|------|-----|--------|------|------|------|---|--------|--------|------|------|------|--------|
| Annual (Max) | —    | —    | —    | —    | —    | —    | —   | —      | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.       | 5.69 | 4.72 | 41.9 | 45.6 | 0.13 | 1.26 | 334 | 336    | 1.16 | 33.6 | 34.7 | — | 12,436 | 12,436 | 0.39 | 0.57 | 4.75 | 12,620 |
| Mit.         | 1.70 | 1.64 | 14.0 | 77.1 | 0.18 | 0.35 | 334 | 335    | 0.35 | 33.6 | 33.9 | — | 17,391 | 17,391 | 0.59 | 0.61 | 4.75 | 17,592 |
| % Reduced    | 70%  | 65%  | 67%  | -69% | -38% | 72%  | —   | < 0.5% | 70%  | —    | 2%   | — | -40%   | -40%   | -52% | -7%  | —    | -39%   |

### 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2025                 | 33.2 | 27.5 | 243  | 269  | 0.80 | 7.38  | 2,237 | 2,244 | 6.82   | 224    | 231    | —    | 83,285 | 83,285 | 2.49 | 4.13 | 80.7 | 84,658 |
| 2026                 | 35.6 | 29.5 | 270  | 308  | 0.84 | 7.24  | 2,349 | 2,357 | 6.69   | 236    | 242    | —    | 84,068 | 84,068 | 2.54 | 4.17 | 73.6 | 85,446 |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2025                 | 33.0 | 27.4 | 246  | 266  | 0.80 | 7.38  | 2,237 | 2,244 | 6.82   | 224    | 231    | —    | 83,165 | 83,165 | 2.50 | 4.13 | 2.09 | 84,460 |
| 2026                 | 35.4 | 29.4 | 272  | 304  | 0.84 | 7.24  | 2,349 | 2,357 | 6.69   | 236    | 242    | —    | 83,891 | 83,891 | 2.55 | 4.17 | 1.91 | 85,198 |
| Average Daily        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2025                 | 31.2 | 25.9 | 230  | 250  | 0.73 | 6.89  | 1,832 | 1,839 | 6.37   | 184    | 190    | —    | 75,117 | 75,117 | 2.33 | 3.43 | 28.7 | 76,226 |
| 2026                 | 8.60 | 7.14 | 65.2 | 72.7 | 0.26 | 1.89  | 1,107 | 1,109 | 1.75   | 111    | 113    | —    | 29,385 | 29,385 | 0.76 | 1.98 | 15.7 | 30,011 |
| Annual               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| 2025                 | 5.69 | 4.72 | 41.9 | 45.6 | 0.13 | 1.26  | 334   | 336   | 1.16   | 33.6   | 34.7   | —    | 12,436 | 12,436 | 0.39 | 0.57 | 4.75 | 12,620 |
| 2026                 | 1.57 | 1.30 | 11.9 | 13.3 | 0.05 | 0.34  | 202   | 202   | 0.32   | 20.3   | 20.6   | —    | 4,865  | 4,865  | 0.13 | 0.33 | 2.59 | 4,969  |

### 2.3. Construction Emissions by Year, Mitigated

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

| Year                 | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2   | CO2T    | CH4  | N2O  | R    | CO2e    |
|----------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|---------|---------|------|------|------|---------|
| Daily - Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 2025                 | 10.3 | 9.90 | 80.7 | 466  | 1.12 | 2.16  | 2,237 | 2,239 | 2.15   | 224    | 227    | —    | 117,867 | 117,867 | 3.89 | 4.41 | 80.7 | 119,359 |
| 2026                 | 11.0 | 10.7 | 84.5 | 520  | 1.30 | 2.27  | 2,349 | 2,352 | 2.26   | 236    | 238    | —    | 128,360 | 128,360 | 4.34 | 4.53 | 73.6 | 129,891 |
| Daily - Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 2025                 | 10.1 | 9.76 | 83.4 | 464  | 1.12 | 2.16  | 2,237 | 2,239 | 2.15   | 224    | 227    | —    | 117,747 | 117,747 | 3.90 | 4.41 | 2.09 | 119,160 |
| 2026                 | 10.8 | 10.5 | 87.1 | 517  | 1.30 | 2.27  | 2,349 | 2,352 | 2.26   | 236    | 238    | —    | 128,184 | 128,184 | 4.34 | 4.53 | 1.91 | 129,643 |
| Average Daily        | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 2025                 | 9.30 | 8.99 | 76.7 | 422  | 1.01 | 1.94  | 1,832 | 1,834 | 1.93   | 184    | 186    | —    | 105,045 | 105,045 | 3.54 | 3.68 | 28.7 | 106,258 |
| 2026                 | 3.62 | 3.49 | 33.4 | 169  | 0.41 | 0.80  | 1,107 | 1,108 | 0.80   | 111    | 112    | —    | 45,261  | 45,261  | 1.40 | 2.11 | 15.7 | 45,941  |
| Annual               | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —       | —       | —    | —    | —    | —       |
| 2025                 | 1.70 | 1.64 | 14.0 | 77.1 | 0.18 | 0.35  | 334   | 335   | 0.35   | 33.6   | 33.9   | —    | 17,391  | 17,391  | 0.59 | 0.61 | 4.75 | 17,592  |
| 2026                 | 0.66 | 0.64 | 6.10 | 30.8 | 0.08 | 0.15  | 202   | 202   | 0.15   | 20.3   | 20.4   | —    | 7,494   | 7,494   | 0.23 | 0.35 | 2.59 | 7,606   |

### 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —       | —     |
| Unmit.              | 42.0 | 38.7 | 2.34 | 235  | 0.02    | 0.44  | 6.87  | 7.31  | 0.33   | 0.69   | 1.02   | 0.00 | 1,081 | 1,081 | 0.04    | 0.01    | 0.16    | 1,086 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —     | —       | —       | —       | —     |
| Unmit.              | 0.16 | 0.14 | 0.36 | 0.47 | < 0.005 | 0.02  | 6.87  | 6.89  | 0.02   | 0.69   | 0.71   | 0.00 | 109   | 109   | < 0.005 | < 0.005 | < 0.005 | 110   |

|                     |      |      |      |      |         |      |      |      |      |      |      |      |      |      |         |         |      |      |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|------|------|------|---------|---------|------|------|
| Average Daily (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —    | —    |
| Unmit.              | 20.8 | 19.2 | 1.34 | 116  | 0.01    | 0.22 | 5.81 | 6.04 | 0.17 | 0.58 | 0.76 | 0.00 | 581  | 581  | 0.02    | 0.01    | 0.06 | 584  |
| Annual (Max)        | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —       | —       | —    | —    |
| Unmit.              | 3.79 | 3.50 | 0.24 | 21.2 | < 0.005 | 0.04 | 1.06 | 1.10 | 0.03 | 0.11 | 0.14 | 0.00 | 96.3 | 96.3 | < 0.005 | < 0.005 | 0.01 | 96.7 |

### 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | TOG  | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R       | CO2e  |
|---------------------|------|------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —       | —     |
| Mobile              | 0.03 | 0.03 | 0.02 | 0.24 | < 0.005 | < 0.005 | 6.87  | 6.87  | < 0.005 | 0.69   | 0.69   | —    | 53.0  | 53.0  | < 0.005 | < 0.005 | 0.16    | 53.9  |
| Area                | 41.8 | 38.6 | 1.98 | 235  | 0.01    | 0.42    | —     | 0.42  | 0.32    | —      | 0.32   | —    | 966   | 966   | 0.04    | 0.01    | —       | 970   |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —     | 0.00  | 0.00    | —      | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Water               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 0.00 | 0.37  | 0.37  | < 0.005 | < 0.005 | —       | 0.37  |
| Waste               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 0.00 | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Refrig.             | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | 0.00    | 0.00  |
| Stationary          | 0.13 | 0.12 | 0.34 | 0.31 | < 0.005 | 0.02    | 0.00  | 0.02  | 0.02    | 0.00   | 0.02   | 0.00 | 61.9  | 61.9  | < 0.005 | < 0.005 | 0.00    | 62.1  |
| Total               | 42.0 | 38.7 | 2.34 | 235  | 0.02    | 0.44    | 6.87  | 7.31  | 0.33    | 0.69   | 1.02   | 0.00 | 1,081 | 1,081 | 0.04    | 0.01    | 0.16    | 1,086 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —       | —     |
| Mobile              | 0.02 | 0.02 | 0.03 | 0.16 | < 0.005 | < 0.005 | 6.87  | 6.87  | < 0.005 | 0.69   | 0.69   | —    | 46.6  | 46.6  | < 0.005 | < 0.005 | < 0.005 | 47.4  |
| Area                | 0.00 | 0.00 | —    | —    | —       | —       | —     | —     | —       | —      | —      | —    | —     | —     | —       | —       | —       | —     |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —     | 0.00  | 0.00    | —      | 0.00   | —    | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Water               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 0.00 | 0.37  | 0.37  | < 0.005 | < 0.005 | —       | 0.37  |
| Waste               | —    | —    | —    | —    | —       | —       | —     | —     | —       | —      | —      | 0.00 | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |

|               |         |         |         |      |         |         |      |         |         |      |         |      |      |      |         |         |         |      |
|---------------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---------|------|------|------|---------|---------|---------|------|
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.00    | 0.00 |
| Stationary    | 0.13    | 0.12    | 0.34    | 0.31 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.9 | 61.9 | < 0.005 | < 0.005 | 0.00    | 62.1 |
| Total         | 0.16    | 0.14    | 0.36    | 0.47 | < 0.005 | 0.02    | 6.87 | 6.89    | 0.02    | 0.69 | 0.71    | 0.00 | 109  | 109  | < 0.005 | < 0.005 | < 0.005 | 110  |
| Average Daily | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —       | —    |
| Mobile        | 0.02    | 0.02    | 0.02    | 0.16 | < 0.005 | < 0.005 | 5.81 | 5.81    | < 0.005 | 0.58 | 0.58    | —    | 42.2 | 42.2 | < 0.005 | < 0.005 | 0.06    | 42.9 |
| Area          | 20.6    | 19.0    | 0.97    | 116  | 0.01    | 0.21    | —    | 0.21    | 0.16    | —    | 0.16    | —    | 476  | 476  | 0.02    | < 0.005 | —       | 478  |
| Energy        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 0.00 | 0.00 | 0.00    | 0.00    | —       | 0.00 |
| Water         | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.37 | 0.37 | < 0.005 | < 0.005 | —       | 0.37 |
| Waste         | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —       | 0.00 |
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.00    | 0.00 |
| Stationary    | 0.13    | 0.12    | 0.34    | 0.31 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 62.4 | 62.4 | < 0.005 | < 0.005 | 0.00    | 62.6 |
| Total         | 20.8    | 19.2    | 1.34    | 116  | 0.01    | 0.22    | 5.81 | 6.04    | 0.17    | 0.58 | 0.76    | 0.00 | 581  | 581  | 0.02    | 0.01    | 0.06    | 584  |
| Annual        | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —       | —    |
| Mobile        | < 0.005 | < 0.005 | < 0.005 | 0.03 | < 0.005 | < 0.005 | 1.06 | 1.06    | < 0.005 | 0.11 | 0.11    | —    | 6.99 | 6.99 | < 0.005 | < 0.005 | 0.01    | 7.10 |
| Area          | 3.76    | 3.47    | 0.18    | 21.1 | < 0.005 | 0.04    | —    | 0.04    | 0.03    | —    | 0.03    | —    | 78.9 | 78.9 | < 0.005 | < 0.005 | —       | 79.2 |
| Energy        | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 0.00 | 0.00 | 0.00    | 0.00    | —       | 0.00 |
| Water         | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | —       | 0.06 |
| Waste         | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —       | 0.00 |
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.00    | 0.00 |
| Stationary    | 0.02    | 0.02    | 0.06    | 0.06 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00    | 10.4 |
| Total         | 3.79    | 3.50    | 0.24    | 21.2 | < 0.005 | 0.04    | 1.06 | 1.10    | 0.03    | 0.11 | 0.14    | 0.00 | 96.3 | 96.3 | < 0.005 | < 0.005 | 0.01    | 96.7 |

### 2.6. Operations Emissions by Sector, Mitigated

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

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



|                     |      |      |      |      |         |         |      |      |         |      |      |      |       |       |         |         |         |       |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|------|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | —       | —     |
| Mobile              | 0.03 | 0.03 | 0.02 | 0.24 | < 0.005 | < 0.005 | 6.87 | 6.87 | < 0.005 | 0.69 | 0.69 | —    | 53.0  | 53.0  | < 0.005 | < 0.005 | 0.16    | 53.9  |
| Area                | 41.8 | 38.6 | 1.98 | 235  | 0.01    | 0.42    | —    | 0.42 | 0.32    | —    | 0.32 | —    | 966   | 966   | 0.04    | 0.01    | —       | 970   |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —    | 0.00 | 0.00    | —    | 0.00 | —    | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.37  | 0.37  | < 0.005 | < 0.005 | —       | 0.37  |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Refrig.             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | 0.00    | 0.00  |
| Stationary          | 0.13 | 0.12 | 0.34 | 0.31 | < 0.005 | 0.02    | 0.00 | 0.02 | 0.02    | 0.00 | 0.02 | 0.00 | 61.9  | 61.9  | < 0.005 | < 0.005 | 0.00    | 62.1  |
| Total               | 42.0 | 38.7 | 2.34 | 235  | 0.02    | 0.44    | 6.87 | 7.31 | 0.33    | 0.69 | 1.02 | 0.00 | 1,081 | 1,081 | 0.04    | 0.01    | 0.16    | 1,086 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | —       | —     |
| Mobile              | 0.02 | 0.02 | 0.03 | 0.16 | < 0.005 | < 0.005 | 6.87 | 6.87 | < 0.005 | 0.69 | 0.69 | —    | 46.6  | 46.6  | < 0.005 | < 0.005 | < 0.005 | 47.4  |
| Area                | 0.00 | 0.00 | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | —       | —     |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —    | 0.00 | 0.00    | —    | 0.00 | —    | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.37  | 0.37  | < 0.005 | < 0.005 | —       | 0.37  |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Refrig.             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | 0.00    | 0.00  |
| Stationary          | 0.13 | 0.12 | 0.34 | 0.31 | < 0.005 | 0.02    | 0.00 | 0.02 | 0.02    | 0.00 | 0.02 | 0.00 | 61.9  | 61.9  | < 0.005 | < 0.005 | 0.00    | 62.1  |
| Total               | 0.16 | 0.14 | 0.36 | 0.47 | < 0.005 | 0.02    | 6.87 | 6.89 | 0.02    | 0.69 | 0.71 | 0.00 | 109   | 109   | < 0.005 | < 0.005 | < 0.005 | 110   |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —     | —     | —       | —       | —       | —     |
| Mobile              | 0.02 | 0.02 | 0.02 | 0.16 | < 0.005 | < 0.005 | 5.81 | 5.81 | < 0.005 | 0.58 | 0.58 | —    | 42.2  | 42.2  | < 0.005 | < 0.005 | 0.06    | 42.9  |
| Area                | 20.6 | 19.0 | 0.97 | 116  | 0.01    | 0.21    | —    | 0.21 | 0.16    | —    | 0.16 | —    | 476   | 476   | 0.02    | < 0.005 | —       | 478   |
| Energy              | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —    | 0.00 | 0.00    | —    | 0.00 | —    | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |
| Water               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.37  | 0.37  | < 0.005 | < 0.005 | —       | 0.37  |
| Waste               | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | 0.00 | 0.00  | 0.00  | 0.00    | 0.00    | —       | 0.00  |

|            |         |         |         |      |         |         |      |         |         |      |         |      |      |      |         |         |      |      |
|------------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---------|------|------|------|---------|---------|------|------|
| Refrig.    | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.00 | 0.00 |
| Stationary | 0.13    | 0.12    | 0.34    | 0.31 | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 62.4 | 62.4 | < 0.005 | < 0.005 | 0.00 | 62.6 |
| Total      | 20.8    | 19.2    | 1.34    | 116  | 0.01    | 0.22    | 5.81 | 6.04    | 0.17    | 0.58 | 0.76    | 0.00 | 581  | 581  | 0.02    | 0.01    | 0.06 | 584  |
| Annual     | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Mobile     | < 0.005 | < 0.005 | < 0.005 | 0.03 | < 0.005 | < 0.005 | 1.06 | 1.06    | < 0.005 | 0.11 | 0.11    | —    | 6.99 | 6.99 | < 0.005 | < 0.005 | 0.01 | 7.10 |
| Area       | 3.76    | 3.47    | 0.18    | 21.1 | < 0.005 | 0.04    | —    | 0.04    | 0.03    | —    | 0.03    | —    | 78.9 | 78.9 | < 0.005 | < 0.005 | —    | 79.2 |
| Energy     | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 0.00 | 0.00 | 0.00    | 0.00    | —    | 0.00 |
| Water      | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.06 | 0.06 | < 0.005 | < 0.005 | —    | 0.06 |
| Waste      | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | —    | 0.00 |
| Refrig.    | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | 0.00 | 0.00 |
| Stationary | 0.02    | 0.02    | 0.06    | 0.06 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00 | 10.4 |
| Total      | 3.79    | 3.50    | 0.24    | 21.2 | < 0.005 | 0.04    | 1.06 | 1.10    | 0.03    | 0.11 | 0.14    | 0.00 | 96.3 | 96.3 | < 0.005 | < 0.005 | 0.01 | 96.7 |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2025) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 3.87 | 3.25 | 22.8 | 23.3 | 0.09 | 0.84  | —     | 0.84  | 0.77   | —      | 0.77   | —    | 9,387 | 9,387 | 0.38 | 0.08 | — | 9,419 |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |      |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|------|---------|------|-------|
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 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    | 0.00 | 0.00  |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.65 | 0.54 | 3.82 | 3.89 | 0.01    | 0.14 | —    | 0.14 | 0.13 | —    | 0.13 | — | 1,569 | 1,569 | 0.06 | 0.01    | —    | 1,574 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 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    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.12 | 0.10 | 0.70 | 0.71 | < 0.005 | 0.03 | —    | 0.03 | 0.02 | —    | 0.02 | — | 260   | 260   | 0.01 | < 0.005 | —    | 261   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 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    | 0.00 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —    | —       | —    | —     |
| Worker                      | 0.23 | 0.21 | 0.21 | 1.93 | 0.00    | 0.00 | 104  | 104  | 0.00 | 10.4 | 10.4 | — | 334   | 334   | 0.02 | 0.01    | 0.04 | 339   |

|               |         |         |      |         |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------------|---------|---------|------|---------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Vendor        | 0.02    | 0.01    | 0.43 | 0.18    | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | — | 365  | 365  | < 0.005 | 0.05    | 0.03 | 380  |
| Hauling       | 0.01    | 0.01    | 0.58 | 0.14    | < 0.005 | 0.01    | 31.0 | 31.0 | 0.01    | 3.11 | 3.12 | — | 476  | 476  | < 0.005 | 0.08    | 0.03 | 499  |
| Average Daily | —       | —       | —    | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.04    | 0.04    | 0.03 | 0.39    | 0.00    | 0.00    | 17.1 | 17.1 | 0.00    | 1.72 | 1.72 | — | 59.9 | 59.9 | < 0.005 | < 0.005 | 0.10 | 60.8 |
| Vendor        | < 0.005 | < 0.005 | 0.07 | 0.03    | < 0.005 | < 0.005 | 4.35 | 4.35 | < 0.005 | 0.44 | 0.44 | — | 61.0 | 61.0 | < 0.005 | 0.01    | 0.07 | 63.6 |
| Hauling       | < 0.005 | < 0.005 | 0.10 | 0.02    | < 0.005 | < 0.005 | 5.12 | 5.12 | < 0.005 | 0.51 | 0.52 | — | 79.5 | 79.5 | < 0.005 | 0.01    | 0.07 | 83.4 |
| Annual        | —       | —       | —    | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01    | 0.01 | 0.07    | 0.00    | 0.00    | 3.13 | 3.13 | 0.00    | 0.31 | 0.31 | — | 9.92 | 9.92 | < 0.005 | < 0.005 | 0.02 | 10.1 |
| Vendor        | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | 0.79 | 0.79 | < 0.005 | 0.08 | 0.08 | — | 10.1 | 10.1 | < 0.005 | < 0.005 | 0.01 | 10.5 |
| Hauling       | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.93 | 0.93 | < 0.005 | 0.09 | 0.09 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 0.01 | 13.8 |

### 3.2. Site Preparation (2025) - Mitigated

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

| Location                    | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|-----------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite                      | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Winter (Max)         | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment          | 1.54 | 1.54 | 30.3 | 68.8 | 0.13 | 0.26  | —     | 0.26  | 0.26   | —      | 0.26   | —    | 13,837 | 13,837 | 0.56 | 0.11 | —    | 13,885 |
| Dust From Material Movement | —    | —    | —    | —    | —    | —     | 0.00  | 0.00  | —      | 0.00   | 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 | 0.00 | 0.00   |

|                             |      |      |      |      |         |      |      |      |      |      |      |   |       |       |         |         |      |       |
|-----------------------------|------|------|------|------|---------|------|------|------|------|------|------|---|-------|-------|---------|---------|------|-------|
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.26 | 0.26 | 5.07 | 11.5 | 0.02    | 0.04 | —    | 0.04 | 0.04 | —    | 0.04 | — | 2,313 | 2,313 | 0.09    | 0.02    | —    | 2,320 |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 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    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.05 | 0.05 | 0.93 | 2.10 | < 0.005 | 0.01 | —    | 0.01 | 0.01 | —    | 0.01 | — | 383   | 383   | 0.02    | < 0.005 | —    | 384   |
| Dust From Material Movement | —    | —    | —    | —    | —       | —    | 0.00 | 0.00 | —    | 0.00 | 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    | 0.00 | 0.00  |
| Offsite                     | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max)         | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.23 | 0.21 | 0.21 | 1.93 | 0.00    | 0.00 | 104  | 104  | 0.00 | 10.4 | 10.4 | — | 334   | 334   | 0.02    | 0.01    | 0.04 | 339   |
| Vendor                      | 0.02 | 0.01 | 0.43 | 0.18 | < 0.005 | 0.01 | 26.4 | 26.4 | 0.01 | 2.65 | 2.65 | — | 365   | 365   | < 0.005 | 0.05    | 0.03 | 380   |
| Hauling                     | 0.01 | 0.01 | 0.58 | 0.14 | < 0.005 | 0.01 | 31.0 | 31.0 | 0.01 | 3.11 | 3.12 | — | 476   | 476   | < 0.005 | 0.08    | 0.03 | 499   |
| Average Daily               | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.04 | 0.04 | 0.03 | 0.39 | 0.00    | 0.00 | 17.1 | 17.1 | 0.00 | 1.72 | 1.72 | — | 59.9  | 59.9  | < 0.005 | < 0.005 | 0.10 | 60.8  |

|         |         |         |      |         |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------|---------|---------|------|---------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | < 0.005 | 0.07 | 0.03    | < 0.005 | < 0.005 | 4.35 | 4.35 | < 0.005 | 0.44 | 0.44 | — | 61.0 | 61.0 | < 0.005 | 0.01    | 0.07 | 63.6 |
| Hauling | < 0.005 | < 0.005 | 0.10 | 0.02    | < 0.005 | < 0.005 | 5.12 | 5.12 | < 0.005 | 0.51 | 0.52 | — | 79.5 | 79.5 | < 0.005 | 0.01    | 0.07 | 83.4 |
| Annual  | —       | —       | —    | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker  | 0.01    | 0.01    | 0.01 | 0.07    | 0.00    | 0.00    | 3.13 | 3.13 | 0.00    | 0.31 | 0.31 | — | 9.92 | 9.92 | < 0.005 | < 0.005 | 0.02 | 10.1 |
| Vendor  | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | 0.79 | 0.79 | < 0.005 | 0.08 | 0.08 | — | 10.1 | 10.1 | < 0.005 | < 0.005 | 0.01 | 10.5 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | 0.93 | 0.93 | < 0.005 | 0.09 | 0.09 | — | 13.2 | 13.2 | < 0.005 | < 0.005 | 0.01 | 13.8 |

### 3.3. Project Construction (2025) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 9.79 | 8.18 | 60.7 | 80.2 | 0.19 | 2.28  | —     | 2.28  | 2.10   | —      | 2.10   | —    | 19,552 | 19,552 | 0.79 | 0.16 | —    | 19,619 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 9.79 | 8.18 | 60.7 | 80.2 | 0.19 | 2.28  | —     | 2.28  | 2.10   | —      | 2.10   | —    | 19,552 | 19,552 | 0.79 | 0.16 | —    | 19,619 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |         |      |      |         |         |       |       |         |      |      |   |        |        |         |         |      |        |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| Off-Road Equipment  | 7.91    | 6.62    | 49.1 | 64.8 | 0.15    | 1.84    | —     | 1.84  | 1.70    | —    | 1.70 | — | 15,802 | 15,802 | 0.64    | 0.13    | —    | 15,857 |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Annual              | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 1.44    | 1.21    | 8.95 | 11.8 | 0.03    | 0.34    | —     | 0.34  | 0.31    | —    | 0.31 | — | 2,616  | 2,616  | 0.11    | 0.02    | —    | 2,625  |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Offsite             | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.30    | 0.28    | 0.17 | 3.19 | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 394    | 394    | 0.02    | 0.01    | 1.38 | 401    |
| Vendor              | 0.64    | 0.43    | 21.9 | 6.52 | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,711 | 26,711 | 0.20    | 3.58    | 76.6 | 27,860 |
| Hauling             | < 0.005 | < 0.005 | 0.15 | 0.04 | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 136    | 136    | < 0.005 | 0.02    | 0.29 | 143    |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.23    | 0.21    | 0.21 | 1.93 | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 334    | 334    | 0.02    | 0.01    | 0.04 | 339    |
| Vendor              | 0.63    | 0.42    | 24.5 | 6.35 | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,712 | 26,712 | 0.20    | 3.58    | 1.99 | 27,786 |
| Hauling             | < 0.005 | < 0.005 | 0.17 | 0.04 | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 136    | 136    | < 0.005 | 0.02    | 0.01 | 143    |
| Average Daily       | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.19    | 0.16 | 1.88 | 0.00    | 0.00    | 82.8  | 82.8  | 0.00    | 8.30 | 8.30 | — | 290    | 290    | 0.02    | 0.01    | 0.48 | 294    |
| Vendor              | 0.51    | 0.35    | 19.6 | 5.28 | 0.16    | 0.32    | 1,590 | 1,590 | 0.32    | 160  | 160  | — | 21,589 | 21,589 | 0.17    | 2.89    | 26.8 | 22,482 |
| Hauling             | < 0.005 | < 0.005 | 0.13 | 0.03 | < 0.005 | < 0.005 | 7.07  | 7.07  | < 0.005 | 0.71 | 0.71 | — | 110    | 110    | < 0.005 | 0.02    | 0.10 | 115    |
| Annual              | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.04    | 0.03    | 0.03 | 0.34 | 0.00    | 0.00    | 15.1  | 15.1  | 0.00    | 1.51 | 1.51 | — | 48.0   | 48.0   | < 0.005 | < 0.005 | 0.08 | 48.7   |

|         |         |         |      |      |         |         |      |      |         |      |      |   |       |       |         |         |      |       |
|---------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Vendor  | 0.09    | 0.06    | 3.58 | 0.96 | 0.03    | 0.06    | 290  | 290  | 0.06    | 29.1 | 29.2 | — | 3,574 | 3,574 | 0.03    | 0.48    | 4.44 | 3,722 |
| Hauling | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 1.29 | 1.29 | < 0.005 | 0.13 | 0.13 | — | 18.2  | 18.2  | < 0.005 | < 0.005 | 0.02 | 19.1  |

### 3.4. Project Construction (2025) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 4.57 | 4.57 | 33.1 | 247  | 0.44 | 0.88  | —     | 0.88  | 0.88   | —      | 0.88   | —    | 46,745 | 46,745 | 1.90 | 0.38 | —    | 46,906 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 4.57 | 4.57 | 33.1 | 247  | 0.44 | 0.88  | —     | 0.88  | 0.88   | —      | 0.88   | —    | 46,745 | 46,745 | 1.90 | 0.38 | —    | 46,906 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 3.69 | 3.69 | 26.8 | 200  | 0.36 | 0.71  | —     | 0.71  | 0.71   | —      | 0.71   | —    | 37,780 | 37,780 | 1.53 | 0.31 | —    | 37,910 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |



|                     |         |         |      |      |         |         |       |       |         |      |      |   |        |        |         |         |      |        |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| Off-Road Equipment  | 0.67    | 0.67    | 4.89 | 36.5 | 0.07    | 0.13    | —     | 0.13  | 0.13    | —    | 0.13 | — | 6,255  | 6,255  | 0.25    | 0.05    | —    | 6,276  |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Offsite             | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.30    | 0.28    | 0.17 | 3.19 | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 394    | 394    | 0.02    | 0.01    | 1.38 | 401    |
| Vendor              | 0.64    | 0.43    | 21.9 | 6.52 | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,711 | 26,711 | 0.20    | 3.58    | 76.6 | 27,860 |
| Hauling             | < 0.005 | < 0.005 | 0.15 | 0.04 | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 136    | 136    | < 0.005 | 0.02    | 0.29 | 143    |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.23    | 0.21    | 0.21 | 1.93 | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 334    | 334    | 0.02    | 0.01    | 0.04 | 339    |
| Vendor              | 0.63    | 0.42    | 24.5 | 6.35 | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,712 | 26,712 | 0.20    | 3.58    | 1.99 | 27,786 |
| Hauling             | < 0.005 | < 0.005 | 0.17 | 0.04 | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 136    | 136    | < 0.005 | 0.02    | 0.01 | 143    |
| Average Daily       | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.19    | 0.16 | 1.88 | 0.00    | 0.00    | 82.8  | 82.8  | 0.00    | 8.30 | 8.30 | — | 290    | 290    | 0.02    | 0.01    | 0.48 | 294    |
| Vendor              | 0.51    | 0.35    | 19.6 | 5.28 | 0.16    | 0.32    | 1,590 | 1,590 | 0.32    | 160  | 160  | — | 21,589 | 21,589 | 0.17    | 2.89    | 26.8 | 22,482 |
| Hauling             | < 0.005 | < 0.005 | 0.13 | 0.03 | < 0.005 | < 0.005 | 7.07  | 7.07  | < 0.005 | 0.71 | 0.71 | — | 110    | 110    | < 0.005 | 0.02    | 0.10 | 115    |
| Annual              | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.04    | 0.03    | 0.03 | 0.34 | 0.00    | 0.00    | 15.1  | 15.1  | 0.00    | 1.51 | 1.51 | — | 48.0   | 48.0   | < 0.005 | < 0.005 | 0.08 | 48.7   |
| Vendor              | 0.09    | 0.06    | 3.58 | 0.96 | 0.03    | 0.06    | 290   | 290   | 0.06    | 29.1 | 29.2 | — | 3,574  | 3,574  | 0.03    | 0.48    | 4.44 | 3,722  |
| Hauling             | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 1.29  | 1.29  | < 0.005 | 0.13 | 0.13 | — | 18.2   | 18.2   | < 0.005 | < 0.005 | 0.02 | 19.1   |

### 3.5. Project Construction (2026) - Unmitigated

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

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

|                     |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 9.36 | 7.83 | 56.9 | 79.7 | 0.19 | 2.02 | —    | 2.02 | 1.86 | —    | 1.86 | — | 19,555 | 19,555 | 0.79 | 0.16 | —    | 19,622 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 9.36 | 7.83 | 56.9 | 79.7 | 0.19 | 2.02 | —    | 2.02 | 1.86 | —    | 1.86 | — | 19,555 | 19,555 | 0.79 | 0.16 | —    | 19,622 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 4.74 | 3.97 | 28.8 | 40.4 | 0.10 | 1.02 | —    | 1.02 | 0.94 | —    | 0.94 | — | 9,912  | 9,912  | 0.40 | 0.08 | —    | 9,946  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.87 | 0.72 | 5.26 | 7.37 | 0.02 | 0.19 | —    | 0.19 | 0.17 | —    | 0.17 | — | 1,641  | 1,641  | 0.07 | 0.01 | —    | 1,647  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Offsite             | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |

|                     |         |         |      |         |         |         |       |       |         |      |      |   |        |        |         |         |      |        |
|---------------------|---------|---------|------|---------|---------|---------|-------|-------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| Worker              | 0.27    | 0.26    | 0.16 | 2.94    | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 387    | 387    | 0.02    | 0.01    | 1.26 | 393    |
| Vendor              | 0.64    | 0.43    | 20.5 | 5.53    | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,206 | 26,206 | 0.20    | 3.58    | 68.4 | 27,346 |
| Hauling             | < 0.005 | < 0.005 | 0.15 | 0.04    | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 133    | 133    | < 0.005 | 0.02    | 0.28 | 140    |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.20    | 0.18 | 1.78    | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 328    | 328    | 0.02    | 0.01    | 0.03 | 332    |
| Vendor              | 0.63    | 0.42    | 22.9 | 5.35    | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,207 | 26,207 | 0.20    | 3.58    | 1.78 | 27,280 |
| Hauling             | < 0.005 | < 0.005 | 0.16 | 0.04    | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 133    | 133    | < 0.005 | 0.02    | 0.01 | 139    |
| Average Daily       | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.12    | 0.11    | 0.09 | 1.09    | 0.00    | 0.00    | 52.0  | 52.0  | 0.00    | 5.20 | 5.20 | — | 178    | 178    | 0.01    | 0.01    | 0.28 | 181    |
| Vendor              | 0.32    | 0.22    | 11.5 | 2.81    | 0.10    | 0.20    | 997   | 997   | 0.20    | 100  | 100  | — | 13,283 | 13,283 | 0.10    | 1.81    | 15.0 | 13,841 |
| Hauling             | < 0.005 | < 0.005 | 0.08 | 0.02    | < 0.005 | < 0.005 | 4.43  | 4.43  | < 0.005 | 0.45 | 0.45 | — | 67.4   | 67.4   | < 0.005 | 0.01    | 0.06 | 70.7   |
| Annual              | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.02    | 0.02    | 0.02 | 0.20    | 0.00    | 0.00    | 9.48  | 9.48  | 0.00    | 0.95 | 0.95 | — | 29.5   | 29.5   | < 0.005 | < 0.005 | 0.05 | 30.0   |
| Vendor              | 0.06    | 0.04    | 2.10 | 0.51    | 0.02    | 0.04    | 182   | 182   | 0.04    | 18.3 | 18.3 | — | 2,199  | 2,199  | 0.02    | 0.30    | 2.48 | 2,292  |
| Hauling             | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.81  | 0.81  | < 0.005 | 0.08 | 0.08 | — | 11.2   | 11.2   | < 0.005 | < 0.005 | 0.01 | 11.7   |

### 3.6. Project Construction (2026) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|---------------------|------|------|------|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Onsite              | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Daily, Summer (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Off-Road Equipment  | 4.57 | 4.57 | 33.1 | 247 | 0.44 | 0.88  | —     | 0.88  | 0.88   | —      | 0.88   | —    | 46,778 | 46,778 | 1.90 | 0.38 | — | 46,939 |

|                     |         |         |      |      |         |         |       |       |         |      |      |      |        |        |         |      |      |        |      |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|------|--------|--------|---------|------|------|--------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   | 0.00 |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |
| Off-Road Equipment  | 4.57    | 4.57    | 33.1 | 247  | 0.44    | 0.88    | —     | 0.88  | 0.88    | —    | 0.88 | —    | 46,778 | 46,778 | 1.90    | 0.38 | —    | 46,939 |      |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   | 0.00 |
| Average Daily       | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |
| Off-Road Equipment  | 2.32    | 2.32    | 16.8 | 125  | 0.22    | 0.45    | —     | 0.45  | 0.45    | —    | 0.45 | —    | 23,709 | 23,709 | 0.96    | 0.19 | —    | 23,791 |      |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   | 0.00 |
| Annual              | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |
| Off-Road Equipment  | 0.42    | 0.42    | 3.07 | 22.9 | 0.04    | 0.08    | —     | 0.08  | 0.08    | —    | 0.08 | —    | 3,925  | 3,925  | 0.16    | 0.03 | —    | 3,939  |      |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   | 0.00 |
| Offsite             | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |
| Worker              | 0.27    | 0.26    | 0.16 | 2.94 | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | —    | 387    | 387    | 0.02    | 0.01 | 1.26 | 393    |      |
| Vendor              | 0.64    | 0.43    | 20.5 | 5.53 | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | —    | 26,206 | 26,206 | 0.20    | 3.58 | 68.4 | 27,346 |      |
| Hauling             | < 0.005 | < 0.005 | 0.15 | 0.04 | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | —    | 133    | 133    | < 0.005 | 0.02 | 0.28 | 140    |      |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | —    | —      | —      | —       | —    | —    | —      | —    |

|               |         |         |      |         |         |         |       |       |         |      |      |   |        |        |         |         |      |        |
|---------------|---------|---------|------|---------|---------|---------|-------|-------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| Worker        | 0.21    | 0.20    | 0.18 | 1.78    | 0.00    | 0.00    | 104   | 104   | 0.00    | 10.4 | 10.4 | — | 328    | 328    | 0.02    | 0.01    | 0.03 | 332    |
| Vendor        | 0.63    | 0.42    | 22.9 | 5.35    | 0.20    | 0.40    | 1,994 | 1,994 | 0.40    | 200  | 201  | — | 26,207 | 26,207 | 0.20    | 3.58    | 1.78 | 27,280 |
| Hauling       | < 0.005 | < 0.005 | 0.16 | 0.04    | < 0.005 | < 0.005 | 8.86  | 8.87  | < 0.005 | 0.89 | 0.89 | — | 133    | 133    | < 0.005 | 0.02    | 0.01 | 139    |
| Average Daily | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker        | 0.12    | 0.11    | 0.09 | 1.09    | 0.00    | 0.00    | 52.0  | 52.0  | 0.00    | 5.20 | 5.20 | — | 178    | 178    | 0.01    | 0.01    | 0.28 | 181    |
| Vendor        | 0.32    | 0.22    | 11.5 | 2.81    | 0.10    | 0.20    | 997   | 997   | 0.20    | 100  | 100  | — | 13,283 | 13,283 | 0.10    | 1.81    | 15.0 | 13,841 |
| Hauling       | < 0.005 | < 0.005 | 0.08 | 0.02    | < 0.005 | < 0.005 | 4.43  | 4.43  | < 0.005 | 0.45 | 0.45 | — | 67.4   | 67.4   | < 0.005 | 0.01    | 0.06 | 70.7   |
| Annual        | —       | —       | —    | —       | —       | —       | —     | —     | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker        | 0.02    | 0.02    | 0.02 | 0.20    | 0.00    | 0.00    | 9.48  | 9.48  | 0.00    | 0.95 | 0.95 | — | 29.5   | 29.5   | < 0.005 | < 0.005 | 0.05 | 30.0   |
| Vendor        | 0.06    | 0.04    | 2.10 | 0.51    | 0.02    | 0.04    | 182   | 182   | 0.04    | 18.3 | 18.3 | — | 2,199  | 2,199  | 0.02    | 0.30    | 2.48 | 2,292  |
| Hauling       | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.81  | 0.81  | < 0.005 | 0.08 | 0.08 | — | 11.2   | 11.2   | < 0.005 | < 0.005 | 0.01 | 11.7   |

### 3.7. Well Drilling and Pipeline (2025) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 22.1 | 18.3 | 160  | 176  | 0.41 | 4.69  | —     | 4.69  | 4.32   | —      | 4.32   | —    | 35,732 | 35,732 | 1.45 | 0.29 | —    | 35,855 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |      |      |      |      |         |      |      |      |      |      |      |   |        |        |         |      |      |        |
|---------------------|------|------|------|------|---------|------|------|------|------|------|------|---|--------|--------|---------|------|------|--------|
| Off-Road Equipment  | 22.1 | 18.3 | 160  | 176  | 0.41    | 4.69 | —    | 4.69 | 4.32 | —    | 4.32 | — | 35,732 | 35,732 | 1.45    | 0.29 | —    | 35,855 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Off-Road Equipment  | 21.6 | 17.9 | 156  | 171  | 0.40    | 4.58 | —    | 4.58 | 4.21 | —    | 4.21 | — | 34,851 | 34,851 | 1.41    | 0.28 | —    | 34,970 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Off-Road Equipment  | 3.93 | 3.26 | 28.5 | 31.3 | 0.07    | 0.83 | —    | 0.83 | 0.77 | —    | 0.77 | — | 5,770  | 5,770  | 0.23    | 0.05 | —    | 5,790  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Offsite             | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Worker              | 0.30 | 0.28 | 0.17 | 3.19 | 0.00    | 0.00 | 104  | 104  | 0.00 | 10.4 | 10.4 | — | 394    | 394    | 0.02    | 0.01 | 1.38 | 401    |
| Vendor              | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | 0.01 | 26.4 | 26.4 | 0.01 | 2.65 | 2.65 | — | 365    | 365    | < 0.005 | 0.05 | 1.01 | 381    |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —    | —    | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Worker              | 0.23 | 0.21 | 0.21 | 1.93 | 0.00    | 0.00 | 104  | 104  | 0.00 | 10.4 | 10.4 | — | 334    | 334    | 0.02    | 0.01 | 0.04 | 339    |
| Vendor              | 0.02 | 0.01 | 0.43 | 0.18 | < 0.005 | 0.01 | 26.4 | 26.4 | 0.01 | 2.65 | 2.65 | — | 365    | 365    | < 0.005 | 0.05 | 0.03 | 380    |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |

|               |         |         |      |      |         |         |       |       |         |      |      |   |      |      |         |         |      |      |
|---------------|---------|---------|------|------|---------|---------|-------|-------|---------|------|------|---|------|------|---------|---------|------|------|
| Average Daily | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.25    | 0.22    | 0.19 | 2.27 | 0.00    | 0.00    | 100.0 | 100.0 | 0.00    | 10.0 | 10.0 | — | 350  | 350  | 0.02    | 0.01    | 0.58 | 355  |
| Vendor        | 0.02    | 0.01    | 0.42 | 0.17 | < 0.005 | 0.01    | 25.4  | 25.4  | 0.01    | 2.55 | 2.55 | — | 356  | 356  | < 0.005 | 0.05    | 0.43 | 371  |
| Hauling       | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual        | —       | —       | —    | —    | —       | —       | —     | —     | —       | —    | —    | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.05    | 0.04    | 0.03 | 0.41 | 0.00    | 0.00    | 18.2  | 18.2  | 0.00    | 1.83 | 1.83 | — | 57.9 | 57.9 | < 0.005 | < 0.005 | 0.10 | 58.8 |
| Vendor        | < 0.005 | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 4.63  | 4.63  | < 0.005 | 0.46 | 0.47 | — | 59.0 | 59.0 | < 0.005 | 0.01    | 0.07 | 61.4 |
| Hauling       | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00  | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.8. Well Drilling and Pipeline (2025) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 4.42 | 4.33 | 24.8 | 206  | 0.48 | 0.88  | —     | 0.88  | 0.87   | —      | 0.87   | —    | 43,121 | 43,121 | 1.75 | 0.35 | —    | 43,269 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 4.42 | 4.33 | 24.8 | 206  | 0.48 | 0.88  | —     | 0.88  | 0.87   | —      | 0.87   | —    | 43,121 | 43,121 | 1.75 | 0.35 | —    | 43,269 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00 | 0.00 | 0.00   |

|                     |      |      |      |      |         |      |       |       |      |      |      |   |        |        |         |      |      |        |
|---------------------|------|------|------|------|---------|------|-------|-------|------|------|------|---|--------|--------|---------|------|------|--------|
| Average Daily       | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Off-Road Equipment  | 4.31 | 4.22 | 24.2 | 201  | 0.46    | 0.86 | —     | 0.86  | 0.85 | —    | 0.85 | — | 42,058 | 42,058 | 1.71    | 0.34 | —    | 42,202 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Off-Road Equipment  | 0.79 | 0.77 | 4.42 | 36.6 | 0.08    | 0.16 | —     | 0.16  | 0.15 | —    | 0.15 | — | 6,963  | 6,963  | 0.28    | 0.06 | —    | 6,987  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Offsite             | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Worker              | 0.30 | 0.28 | 0.17 | 3.19 | 0.00    | 0.00 | 104   | 104   | 0.00 | 10.4 | 10.4 | — | 394    | 394    | 0.02    | 0.01 | 1.38 | 401    |
| Vendor              | 0.02 | 0.01 | 0.39 | 0.17 | < 0.005 | 0.01 | 26.4  | 26.4  | 0.01 | 2.65 | 2.65 | — | 365    | 365    | < 0.005 | 0.05 | 1.01 | 381    |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Worker              | 0.23 | 0.21 | 0.21 | 1.93 | 0.00    | 0.00 | 104   | 104   | 0.00 | 10.4 | 10.4 | — | 334    | 334    | 0.02    | 0.01 | 0.04 | 339    |
| Vendor              | 0.02 | 0.01 | 0.43 | 0.18 | < 0.005 | 0.01 | 26.4  | 26.4  | 0.01 | 2.65 | 2.65 | — | 365    | 365    | < 0.005 | 0.05 | 0.03 | 380    |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |
| Worker              | 0.25 | 0.22 | 0.19 | 2.27 | 0.00    | 0.00 | 100.0 | 100.0 | 0.00 | 10.0 | 10.0 | — | 350    | 350    | 0.02    | 0.01 | 0.58 | 355    |
| Vendor              | 0.02 | 0.01 | 0.42 | 0.17 | < 0.005 | 0.01 | 25.4  | 25.4  | 0.01 | 2.55 | 2.55 | — | 356    | 356    | < 0.005 | 0.05 | 0.43 | 371    |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00 | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00    | 0.00 | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —       | —    | —     | —     | —    | —    | —    | — | —      | —      | —       | —    | —    | —      |



|         |         |         |      |      |         |         |      |      |         |      |      |   |      |      |         |         |      |      |
|---------|---------|---------|------|------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|------|------|
| Worker  | 0.05    | 0.04    | 0.03 | 0.41 | 0.00    | 0.00    | 18.2 | 18.2 | 0.00    | 1.83 | 1.83 | — | 57.9 | 57.9 | < 0.005 | < 0.005 | 0.10 | 58.8 |
| Vendor  | < 0.005 | < 0.005 | 0.08 | 0.03 | < 0.005 | < 0.005 | 4.63 | 4.63 | < 0.005 | 0.46 | 0.47 | — | 59.0 | 59.0 | < 0.005 | 0.01    | 0.07 | 61.4 |
| Hauling | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.9. Well Drilling and Pipeline (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|---------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|--------|--------|---------|---------|------|--------|
| Onsite              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 20.8 | 17.2 | 154  | 175  | 0.41    | 4.06  | —     | 4.06  | 3.73   | —      | 3.73   | —    | 35,741 | 35,741 | 1.45    | 0.29    | —    | 35,863 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.28 | 0.24 | 2.11 | 2.39 | 0.01    | 0.06  | —     | 0.06  | 0.05   | —      | 0.05   | —    | 490    | 490    | 0.02    | < 0.005 | —    | 491    |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.05 | 0.04 | 0.38 | 0.44 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 81.1   | 81.1   | < 0.005 | < 0.005 | —    | 81.3   |

|                     |         |         |         |         |         |         |      |      |         |      |      |      |      |      |         |         |         |      |      |
|---------------------|---------|---------|---------|---------|---------|---------|------|------|---------|------|------|------|------|------|---------|---------|---------|------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —       | —    | —    |
| Worker              | 0.21    | 0.20    | 0.18    | 1.78    | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 328  | 328  | 0.02    | 0.01    | 0.03    | 332  |      |
| Vendor              | 0.02    | 0.01    | 0.41    | 0.16    | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | —    | 358  | 358  | < 0.005 | 0.05    | 0.02    | 373  |      |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |      |
| Average Daily       | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —       | —    |      |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 1.40 | 1.40 | 0.00    | 0.14 | 0.14 | —    | 4.82 | 4.82 | < 0.005 | < 0.005 | 0.01    | 4.89 |      |
| Vendor              | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.36 | 0.36 | < 0.005 | 0.04 | 0.04 | —    | 4.91 | 4.91 | < 0.005 | < 0.005 | 0.01    | 5.12 |      |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |      |
| Annual              | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —       | —    |      |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.03 | 0.03 | —    | 0.80 | 0.80 | < 0.005 | < 0.005 | < 0.005 | 0.81 |      |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.01 | 0.01 | —    | 0.81 | 0.81 | < 0.005 | < 0.005 | < 0.005 | 0.85 |      |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |      |

### 3.10. Well Drilling and Pipeline (2026) - Mitigated

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

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

|                     |         |         |         |         |         |         |      |         |         |      |         |   |        |        |         |         |      |        |
|---------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Off-Road Equipment  | 4.40    | 4.31    | 24.6    | 206     | 0.48    | 0.87    | —    | 0.87    | 0.86    | —    | 0.86    | — | 43,138 | 43,138 | 1.75    | 0.35    | —    | 43,286 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Average Daily       | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.06    | 0.06    | 0.34    | 2.82    | 0.01    | 0.01    | —    | 0.01    | 0.01    | —    | 0.01    | — | 591    | 591    | 0.02    | < 0.005 | —    | 593    |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Annual              | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.01    | 0.01    | 0.06    | 0.51    | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 97.8   | 97.8   | < 0.005 | < 0.005 | —    | 98.2   |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Offsite             | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.20    | 0.18    | 1.78    | 0.00    | 0.00    | 104  | 104     | 0.00    | 10.4 | 10.4    | — | 328    | 328    | 0.02    | 0.01    | 0.03 | 332    |
| Vendor              | 0.02    | 0.01    | 0.41    | 0.16    | < 0.005 | 0.01    | 26.4 | 26.4    | 0.01    | 2.65 | 2.65    | — | 358    | 358    | < 0.005 | 0.05    | 0.02 | 373    |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |
| Average Daily       | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 1.40 | 1.40    | 0.00    | 0.14 | 0.14    | — | 4.82   | 4.82   | < 0.005 | < 0.005 | 0.01 | 4.89   |
| Vendor              | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.36 | 0.36    | < 0.005 | 0.04 | 0.04    | — | 4.91   | 4.91   | < 0.005 | < 0.005 | 0.01 | 5.12   |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |

|         |         |         |         |         |         |         |      |      |         |      |      |   |      |      |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|---------|------|
| Annual  | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | 0.26 | 0.26 | 0.00    | 0.03 | 0.03 | — | 0.80 | 0.80 | < 0.005 | < 0.005 | < 0.005 | 0.81 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.07 | 0.07 | < 0.005 | 0.01 | 0.01 | — | 0.81 | 0.81 | < 0.005 | < 0.005 | < 0.005 | 0.85 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.11. Substation Development (2026) - Unmitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 3.74 | 3.13 | 24.9 | 28.0 | 0.08 | 0.79  | —     | 0.79  | 0.73   | —      | 0.73   | —    | 8,384 | 8,384 | 0.34 | 0.07 | —    | 8,413 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 3.74 | 3.13 | 24.9 | 28.0 | 0.08 | 0.79  | —     | 0.79  | 0.73   | —      | 0.73   | —    | 8,384 | 8,384 | 0.34 | 0.07 | —    | 8,413 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Average Daily       | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 1.24 | 1.04 | 8.24 | 9.29 | 0.03 | 0.26  | —     | 0.26  | 0.24   | —      | 0.24   | —    | 2,779 | 2,779 | 0.11 | 0.02 | —    | 2,789 |

|                     |         |         |      |      |         |         |      |      |         |      |      |      |      |      |         |         |      |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|------|------|------|---------|---------|------|------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Off-Road Equipment  | 0.23    | 0.19    | 1.50 | 1.70 | < 0.005 | 0.05    | —    | 0.05 | 0.04    | —    | 0.04 | —    | 460  | 460  | 0.02    | < 0.005 | —    | 462  |      |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 |
| Offsite             | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Worker              | 0.27    | 0.26    | 0.16 | 2.94 | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 387  | 387  | 0.02    | 0.01    | 1.26 | 393  |      |
| Vendor              | 0.02    | 0.01    | 0.37 | 0.16 | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | —    | 358  | 358  | < 0.005 | 0.05    | 0.90 | 374  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Worker              | 0.21    | 0.20    | 0.18 | 1.78 | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 328  | 328  | 0.02    | 0.01    | 0.03 | 332  |      |
| Vendor              | 0.02    | 0.01    | 0.41 | 0.16 | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | —    | 358  | 358  | < 0.005 | 0.05    | 0.02 | 373  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Average Daily       | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Worker              | 0.08    | 0.07    | 0.06 | 0.71 | 0.00    | 0.00    | 34.0 | 34.0 | 0.00    | 3.40 | 3.40 | —    | 117  | 117  | 0.01    | < 0.005 | 0.18 | 118  |      |
| Vendor              | 0.01    | < 0.005 | 0.13 | 0.05 | < 0.005 | < 0.005 | 8.62 | 8.63 | < 0.005 | 0.87 | 0.87 | —    | 119  | 119  | < 0.005 | 0.02    | 0.13 | 124  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Worker              | 0.01    | 0.01    | 0.01 | 0.13 | 0.00    | 0.00    | 6.20 | 6.20 | 0.00    | 0.62 | 0.62 | —    | 19.3 | 19.3 | < 0.005 | < 0.005 | 0.03 | 19.6 |      |
| Vendor              | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 1.57 | 1.57 | < 0.005 | 0.16 | 0.16 | —    | 19.7 | 19.7 | < 0.005 | < 0.005 | 0.02 | 20.5 |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |

### 3.12. Substation Development (2026) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 1.12 | 1.10 | 7.53 | 55.5 | 0.10 | 0.22  | —     | 0.22  | 0.22   | —      | 0.22   | —    | 10,523 | 10,523 | 0.43 | 0.09    | —    | 10,559 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 1.12 | 1.10 | 7.53 | 55.5 | 0.10 | 0.22  | —     | 0.22  | 0.22   | —      | 0.22   | —    | 10,523 | 10,523 | 0.43 | 0.09    | —    | 10,559 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.37 | 0.37 | 2.50 | 18.4 | 0.03 | 0.07  | —     | 0.07  | 0.07   | —      | 0.07   | —    | 3,488  | 3,488  | 0.14 | 0.03    | —    | 3,500  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | —    | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.07 | 0.07 | 0.46 | 3.36 | 0.01 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 578    | 578    | 0.02 | < 0.005 | —    | 580    |

|                     |         |         |      |      |         |         |      |      |         |      |      |      |      |      |         |         |      |      |      |
|---------------------|---------|---------|------|------|---------|---------|------|------|---------|------|------|------|------|------|---------|---------|------|------|------|
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 |
| Offsite             | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    | —    |
| Worker              | 0.27    | 0.26    | 0.16 | 2.94 | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 387  | 387  | 0.02    | 0.01    | 1.26 | 393  |      |
| Vendor              | 0.02    | 0.01    | 0.37 | 0.16 | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | —    | 358  | 358  | < 0.005 | 0.05    | 0.90 | 374  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Daily, Winter (Max) | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    |      |
| Worker              | 0.21    | 0.20    | 0.18 | 1.78 | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 328  | 328  | 0.02    | 0.01    | 0.03 | 332  |      |
| Vendor              | 0.02    | 0.01    | 0.41 | 0.16 | < 0.005 | 0.01    | 26.4 | 26.4 | 0.01    | 2.65 | 2.65 | —    | 358  | 358  | < 0.005 | 0.05    | 0.02 | 373  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Average Daily       | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    |      |
| Worker              | 0.08    | 0.07    | 0.06 | 0.71 | 0.00    | 0.00    | 34.0 | 34.0 | 0.00    | 3.40 | 3.40 | —    | 117  | 117  | 0.01    | < 0.005 | 0.18 | 118  |      |
| Vendor              | 0.01    | < 0.005 | 0.13 | 0.05 | < 0.005 | < 0.005 | 8.62 | 8.63 | < 0.005 | 0.87 | 0.87 | —    | 119  | 119  | < 0.005 | 0.02    | 0.13 | 124  |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |
| Annual              | —       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —    | —    | —       | —       | —    | —    |      |
| Worker              | 0.01    | 0.01    | 0.01 | 0.13 | 0.00    | 0.00    | 6.20 | 6.20 | 0.00    | 0.62 | 0.62 | —    | 19.3 | 19.3 | < 0.005 | < 0.005 | 0.03 | 19.6 |      |
| Vendor              | < 0.005 | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 1.57 | 1.57 | < 0.005 | 0.16 | 0.16 | —    | 19.7 | 19.7 | < 0.005 | < 0.005 | 0.02 | 20.5 |      |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |      |

### 3.13. Testing and Operational (2026) - Unmitigated

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

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

|                     |      |      |      |      |      |      |      |      |      |      |      |   |        |        |      |         |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|---------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 21.0 | 17.4 | 166  | 186  | 0.36 | 4.02 | —    | 4.02 | 3.69 | —    | 3.69 | — | 28,147 | 28,147 | 1.14 | 0.23    | —    | 28,244 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 21.0 | 17.4 | 166  | 186  | 0.36 | 4.02 | —    | 4.02 | 3.69 | —    | 3.69 | — | 28,147 | 28,147 | 1.14 | 0.23    | —    | 28,244 |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Average Daily       | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 1.78 | 1.47 | 14.1 | 15.8 | 0.03 | 0.34 | —    | 0.34 | 0.31 | —    | 0.31 | — | 2,391  | 2,391  | 0.10 | 0.02    | —    | 2,399  |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Annual              | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.33 | 0.27 | 2.58 | 2.88 | 0.01 | 0.06 | —    | 0.06 | 0.06 | —    | 0.06 | — | 396    | 396    | 0.02 | < 0.005 | —    | 397    |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00   | 0.00   | 0.00 | 0.00    | 0.00 | 0.00   |
| Offsite             | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —       | —    | —      |



|                     |         |         |         |         |         |         |      |      |         |      |      |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|---------|------|
| Worker              | 0.27    | 0.26    | 0.16    | 2.94    | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | — | 387  | 387  | 0.02    | 0.01    | 1.26    | 393  |
| Vendor              | 0.01    | 0.01    | 0.13    | 0.06    | < 0.005 | < 0.005 | 9.04 | 9.04 | < 0.005 | 0.91 | 0.91 | — | 124  | 124  | < 0.005 | 0.02    | 0.31    | 129  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.21    | 0.20    | 0.18    | 1.78    | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | — | 328  | 328  | 0.02    | 0.01    | 0.03    | 332  |
| Vendor              | 0.01    | < 0.005 | 0.15    | 0.06    | < 0.005 | < 0.005 | 9.04 | 9.04 | < 0.005 | 0.91 | 0.91 | — | 124  | 124  | < 0.005 | 0.02    | 0.01    | 129  |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.02    | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 8.71 | 8.71 | 0.00    | 0.87 | 0.87 | — | 29.9 | 29.9 | < 0.005 | < 0.005 | 0.05    | 30.3 |
| Vendor              | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.76 | 0.76 | < 0.005 | 0.08 | 0.08 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01    | 10.9 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 1.59 | 1.59 | 0.00    | 0.16 | 0.16 | — | 4.95 | 4.95 | < 0.005 | < 0.005 | 0.01    | 5.02 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.14 | 0.14 | < 0.005 | 0.01 | 0.01 | — | 1.74 | 1.74 | < 0.005 | < 0.005 | < 0.005 | 1.81 |
| Hauling             | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.14. Testing and Operational (2026) - Mitigated

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

| Location            | TOG  | ROG  | NOx  | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R | CO2e   |
|---------------------|------|------|------|-----|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|---|--------|
| Onsite              | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Daily, Summer (Max) | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | — | —      |
| Off-Road Equipment  | 3.82 | 3.82 | 22.3 | 203 | 0.55 | 0.76  | —     | 0.76  | 0.76   | —      | 0.76   | —    | 43,078 | 43,078 | 1.75 | 0.35 | — | 43,226 |

|                     |      |      |      |      |         |         |      |      |         |      |      |      |        |        |         |         |      |        |      |
|---------------------|------|------|------|------|---------|---------|------|------|---------|------|------|------|--------|--------|---------|---------|------|--------|------|
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   | 0.00 |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |
| Off-Road Equipment  | 3.82 | 3.82 | 22.3 | 203  | 0.55    | 0.76    | —    | 0.76 | 0.76    | —    | 0.76 | —    | 43,078 | 43,078 | 1.75    | 0.35    | —    | 43,226 |      |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   | 0.00 |
| Average Daily       | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |
| Off-Road Equipment  | 0.32 | 0.32 | 1.89 | 17.2 | 0.05    | 0.06    | —    | 0.06 | 0.06    | —    | 0.06 | —    | 3,659  | 3,659  | 0.15    | 0.03    | —    | 3,671  |      |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   | 0.00 |
| Annual              | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |
| Off-Road Equipment  | 0.06 | 0.06 | 0.35 | 3.15 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | —    | 606    | 606    | 0.02    | < 0.005 | —    | 608    |      |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | 0.00 | —      | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   | 0.00 |
| Offsite             | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |
| Daily, Summer (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |
| Worker              | 0.27 | 0.26 | 0.16 | 2.94 | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | —    | 387    | 387    | 0.02    | 0.01    | 1.26 | 393    |      |
| Vendor              | 0.01 | 0.01 | 0.13 | 0.06 | < 0.005 | < 0.005 | 9.04 | 9.04 | < 0.005 | 0.91 | 0.91 | —    | 124    | 124    | < 0.005 | 0.02    | 0.31 | 129    |      |
| Hauling             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | —    | 0.00   | 0.00   | 0.00    | 0.00    | 0.00 | 0.00   |      |
| Daily, Winter (Max) | —    | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | —    | —      | —      | —       | —       | —    | —      | —    |

|               |         |         |         |         |         |         |      |      |         |      |      |   |      |      |         |         |         |      |
|---------------|---------|---------|---------|---------|---------|---------|------|------|---------|------|------|---|------|------|---------|---------|---------|------|
| Worker        | 0.21    | 0.20    | 0.18    | 1.78    | 0.00    | 0.00    | 104  | 104  | 0.00    | 10.4 | 10.4 | — | 328  | 328  | 0.02    | 0.01    | 0.03    | 332  |
| Vendor        | 0.01    | < 0.005 | 0.15    | 0.06    | < 0.005 | < 0.005 | 9.04 | 9.04 | < 0.005 | 0.91 | 0.91 | — | 124  | 124  | < 0.005 | 0.02    | 0.01    | 129  |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Average Daily | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker        | 0.02    | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 8.71 | 8.71 | 0.00    | 0.87 | 0.87 | — | 29.9 | 29.9 | < 0.005 | < 0.005 | 0.05    | 30.3 |
| Vendor        | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | 0.76 | 0.76 | < 0.005 | 0.08 | 0.08 | — | 10.5 | 10.5 | < 0.005 | < 0.005 | 0.01    | 10.9 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual        | —       | —       | —       | —       | —       | —       | —    | —    | —       | —    | —    | — | —    | —    | —       | —       | —       | —    |
| Worker        | < 0.005 | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 1.59 | 1.59 | 0.00    | 0.16 | 0.16 | — | 4.95 | 4.95 | < 0.005 | < 0.005 | 0.01    | 5.02 |
| Vendor        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.14 | 0.14 | < 0.005 | 0.01 | 0.01 | — | 1.74 | 1.74 | < 0.005 | < 0.005 | < 0.005 | 1.81 |
| Hauling       | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

## 4. Operations Emissions Details

### 4.1. Mobile Emissions by Land Use

#### 4.1.1. Unmitigated

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

#### 4.1.2. Mitigated

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

### 4.2. Energy

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

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

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

|                        |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |   |      |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| General Heavy Industry | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)    | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | — | —    |
| General Heavy Industry | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual                 | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | — | —    |
| General Heavy Industry | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.2.2. Electricity Emissions By Land Use - Mitigated

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

| Land Use               | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |   |
|------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|---|
| Daily, Summer (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    | — |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |   |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |   |
| Daily, Winter (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    | — |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |   |

|                        |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |   |      |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|---|------|
| Total                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual                 | — | — | — | — | — | — | — | — | — | — | — | — | —    | —    | —    | —    | — | —    |
| General Heavy Industry | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | — | — | — | — | — | — | — | — | — | — | — | — | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

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

| Land Use               | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual                 | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

4.2.4. Natural Gas Emissions By Land Use - Mitigated

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

| Land Use               | TOG  | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|------------------------|------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Daily, Winter (Max)    | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Annual                 | —    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| General Heavy Industry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |
| Total                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | —     | 0.00  | 0.00   | —      | 0.00   | —    | 0.00  | 0.00 | 0.00 | 0.00 | — | 0.00 |

### 4.3. Area Emissions by Source

#### 4.3.1. Unmitigated

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

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

|                        |      |      |      |      |         |      |   |      |      |   |      |   |      |      |         |         |   |      |
|------------------------|------|------|------|------|---------|------|---|------|------|---|------|---|------|------|---------|---------|---|------|
| Architect Coatings     | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 41.8 | 38.6 | 1.98 | 235  | 0.01    | 0.42 | — | 0.42 | 0.32 | — | 0.32 | — | 966  | 966  | 0.04    | 0.01    | — | 970  |
| Total                  | 41.8 | 38.6 | 1.98 | 235  | 0.01    | 0.42 | — | 0.42 | 0.32 | — | 0.32 | — | 966  | 966  | 0.04    | 0.01    | — | 970  |
| Daily, Winter (Max)    | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Total                  | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Annual                 | —    | —    | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Consumer Products      | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Architectural Coatings | 0.00 | 0.00 | —    | —    | —       | —    | — | —    | —    | — | —    | — | —    | —    | —       | —       | — | —    |
| Landscape Equipment    | 3.76 | 3.47 | 0.18 | 21.1 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 78.9 | 78.9 | < 0.005 | < 0.005 | — | 79.2 |
| Total                  | 3.76 | 3.47 | 0.18 | 21.1 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 78.9 | 78.9 | < 0.005 | < 0.005 | — | 79.2 |

4.3.2. Mitigated

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

| Source                 | TOG  | ROG  | NOx  | CO  | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O  | R | CO2e |
|------------------------|------|------|------|-----|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|------|---|------|
| Daily, Summer (Max)    | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Consumer Products      | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Landscape Equipment    | 41.8 | 38.6 | 1.98 | 235 | 0.01 | 0.42  | —     | 0.42  | 0.32   | —      | 0.32   | —    | 966   | 966  | 0.04 | 0.01 | — | 970  |
| Total                  | 41.8 | 38.6 | 1.98 | 235 | 0.01 | 0.42  | —     | 0.42  | 0.32   | —      | 0.32   | —    | 966   | 966  | 0.04 | 0.01 | — | 970  |
| Daily, Winter (Max)    | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Consumer Products      | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Total                  | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Annual                 | —    | —    | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Consumer Products      | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |
| Architectural Coatings | 0.00 | 0.00 | —    | —   | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —    | — | —    |



|                      |      |      |      |      |         |      |   |      |      |   |      |   |      |      |         |         |   |      |
|----------------------|------|------|------|------|---------|------|---|------|------|---|------|---|------|------|---------|---------|---|------|
| Landsca<br>Equipment | 3.76 | 3.47 | 0.18 | 21.1 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 78.9 | 78.9 | < 0.005 | < 0.005 | — | 79.2 |
| Total                | 3.76 | 3.47 | 0.18 | 21.1 | < 0.005 | 0.04 | — | 0.04 | 0.03 | — | 0.03 | — | 78.9 | 78.9 | < 0.005 | < 0.005 | — | 79.2 |

### 4.4. Water Emissions by Land Use

#### 4.4.1. Unmitigated

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

| Land Use               | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R | CO2e |
|------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|---|------|
| Daily, Summer (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Daily, Winter (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Annual                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.06  | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.06  | 0.06 | < 0.005 | < 0.005 | — | 0.06 |

#### 4.4.2. Mitigated

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

| Land Use               | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R | CO2e |
|------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|---|------|
| Daily, Summer (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Daily, Winter (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.37  | 0.37 | < 0.005 | < 0.005 | — | 0.37 |
| Annual                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | — | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.06  | 0.06 | < 0.005 | < 0.005 | — | 0.06 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | 0.00 | 0.06  | 0.06 | < 0.005 | < 0.005 | — | 0.06 |

### 4.5. Waste Emissions by Land Use

#### 4.5.1. Unmitigated

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

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

4.5.2. Mitigated

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

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

|                        |   |   |   |   |   |   |   |   |   |   |   |   |      |      |      |      |      |   |      |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|------|------|------|------|------|---|------|
| General Heavy Industry | — | — | — | — | — | — | — | — | — | — | — | — | 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 |

### 4.6. Refrigerant Emissions by Land Use

#### 4.6.1. Unmitigated

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

| Land Use               | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R    | CO2e |   |
|------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|------|---|
| Daily, Summer (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    | — |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |
| Daily, Winter (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    | — |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |
| Annual                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    | — |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |   |

#### 4.6.2. Mitigated

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

| Land Use               | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R    | CO2e |
|------------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|------|------|
| Daily, Summer (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |
| Daily, Winter (Max)    | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |
| Annual                 | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | —    | —    |
| General Heavy Industry | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |
| Total                  | —   | —   | —   | —  | —   | —     | —     | —     | —      | —      | —      | —    | —     | —    | —   | —   | 0.00 | 0.00 |

### 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)

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

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

4.7.2. Mitigated

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

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

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

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

|                     |         |         |         |         |         |         |      |         |         |      |         |      |      |      |         |         |      |      |
|---------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|------|---------|------|------|------|---------|---------|------|------|
| Emerge Generator    | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.7 | 61.7 | < 0.005 | < 0.005 | 0.00 | 61.9 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.28 | 0.28 | < 0.005 | < 0.005 | 0.00 | 0.28 |
| Total               | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.9 | 61.9 | < 0.005 | < 0.005 | 0.00 | 62.1 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Emergeny Generator  | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.7 | 61.7 | < 0.005 | < 0.005 | 0.00 | 61.9 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.28 | 0.28 | < 0.005 | < 0.005 | 0.00 | 0.28 |
| Total               | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.9 | 61.9 | < 0.005 | < 0.005 | 0.00 | 62.1 |
| Annual              | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Emergeny Generator  | 0.02    | 0.02    | 0.06    | 0.06    | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00 | 10.3 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.05 | 0.05 | < 0.005 | < 0.005 | 0.00 | 0.05 |
| Total               | 0.02    | 0.02    | 0.06    | 0.06    | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00 | 10.4 |

4.8.2. Mitigated

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

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

|                     |         |         |         |         |         |         |      |         |         |      |         |      |      |      |         |         |      |      |
|---------------------|---------|---------|---------|---------|---------|---------|------|---------|---------|------|---------|------|------|------|---------|---------|------|------|
| Emergency Generator | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.7 | 61.7 | < 0.005 | < 0.005 | 0.00 | 61.9 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.28 | 0.28 | < 0.005 | < 0.005 | 0.00 | 0.28 |
| Total               | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.9 | 61.9 | < 0.005 | < 0.005 | 0.00 | 62.1 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Emergency Generator | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.7 | 61.7 | < 0.005 | < 0.005 | 0.00 | 61.9 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.28 | 0.28 | < 0.005 | < 0.005 | 0.00 | 0.28 |
| Total               | 0.13    | 0.12    | 0.34    | 0.31    | < 0.005 | 0.02    | 0.00 | 0.02    | 0.02    | 0.00 | 0.02    | 0.00 | 61.9 | 61.9 | < 0.005 | < 0.005 | 0.00 | 62.1 |
| Annual              | —       | —       | —       | —       | —       | —       | —    | —       | —       | —    | —       | —    | —    | —    | —       | —       | —    | —    |
| Emergency Generator | 0.02    | 0.02    | 0.06    | 0.06    | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00 | 10.3 |
| Fire Pump           | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 0.05 | 0.05 | < 0.005 | < 0.005 | 0.00 | 0.05 |
| Total               | 0.02    | 0.02    | 0.06    | 0.06    | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | 0.00 | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.00 | 10.4 |

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



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

4.9.2. Mitigated

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

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

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

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

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

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

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

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

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

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

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

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

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

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

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

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

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

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

|             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sequestered | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Removed     | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Subtotal    | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| —           | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

## 5. Activity Data

### 5.1. Construction Schedule

| Phase Name                 | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description                          |
|----------------------------|-----------------------|------------|-----------|---------------|---------------------|--|
| Site Preparation           | Site Preparation      | 1/10/2025  | 3/11/2025 | 7.00          | 61.0                | Site Preparation                           |
| Project Construction       | Building Construction | 3/12/2025  | 7/4/2026  | 7.00          | 480                 | Project Construction                       |
| Well Drilling and Pipeline | Building Construction | 1/10/2025  | 1/5/2026  | 7.00          | 361                 | Well Drilling and Pipeline Interconnection |
| Substation Development     | Building Construction | 1/6/2026   | 5/6/2026  | 7.00          | 121                 | Substation Development & Interconnection   |
| Testing and Operational    | Building Construction | 3/27/2026  | 4/26/2026 | 7.00          | 31.0                | Testing and Operational                    |

### 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 |
|----------------------|--------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Site Preparation     | Off-Highway Trucks | Diesel    | Average     | 3.00           | 5.00          | 402        | 0.38        |
| Site Preparation     | Excavators         | Diesel    | Average     | 1.00           | 8.00          | 97.0       | 0.38        |
| Site Preparation     | Rollers            | Diesel    | Average     | 2.00           | 8.00          | 200        | 0.38        |
| Site Preparation     | Off-Highway Trucks | Diesel    | Average     | 8.00           | 4.00          | 350        | 0.38        |
| Project Construction | Aerial Lifts       | Diesel    | Average     | 8.00           | 6.00          | 160        | 0.31        |

|                            |                            |        |         |      |      |      |      |
|----------------------------|----------------------------|--------|---------|------|------|------|------|
| Project Construction       | Excavators                 | Diesel | Average | 1.00 | 8.00 | 97.0 | 0.38 |
| Project Construction       | Cranes                     | Diesel | Average | 2.00 | 6.00 | 160  | 0.29 |
| Project Construction       | Forklifts                  | Diesel | Average | 7.00 | 8.00 | 89.0 | 0.20 |
| Project Construction       | Generator Sets             | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.74 |
| Project Construction       | Graders                    | Diesel | Average | 1.00 | 8.00 | 187  | 0.41 |
| Project Construction       | Off-Highway Trucks         | Diesel | Average | 2.00 | 8.00 | 402  | 0.38 |
| Project Construction       | Rubber Tired Loaders       | Diesel | Average | 1.00 | 8.00 | 203  | 0.36 |
| Project Construction       | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 8.00 | 97.0 | 0.37 |
| Project Construction       | Welders                    | Diesel | Average | 15.0 | 6.00 | 46.0 | 0.45 |
| Project Construction       | Off-Highway Trucks         | Diesel | Average | 1.00 | 4.00 | 350  | 0.38 |
| Project Construction       | Off-Highway Trucks         | Diesel | Average | 15.0 | 4.00 | 245  | 0.38 |
| Well Drilling and Pipeline | Generator Sets             | Diesel | Average | 2.00 | 12.0 | 27.0 | 0.74 |
| Well Drilling and Pipeline | Bore/Drill Rigs            | Diesel | Average | 1.00 | 24.0 | 500  | 0.50 |
| Well Drilling and Pipeline | Pumps                      | Diesel | Average | 1.00 | 24.0 | 500  | 0.74 |
| Well Drilling and Pipeline | Generator Sets             | Diesel | Average | 1.00 | 24.0 | 415  | 0.74 |
| Well Drilling and Pipeline | Off-Highway Trucks         | Diesel | Average | 8.00 | 1.00 | 450  | 0.38 |
| Well Drilling and Pipeline | Cranes                     | Diesel | Average | 2.00 | 5.00 | 231  | 0.29 |
| Well Drilling and Pipeline | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 6.00 | 97.0 | 0.37 |
| Well Drilling and Pipeline | Forklifts                  | Diesel | Average | 1.00 | 6.00 | 89.0 | 0.20 |
| Well Drilling and Pipeline | Off-Highway Trucks         | Diesel | Average | 1.00 | 10.0 | 385  | 0.38 |
| Well Drilling and Pipeline | Off-Highway Trucks         | Diesel | Average | 1.00 | 4.00 | 428  | 0.38 |

|                            |                                   |        |         |      |      |      |      |
|----------------------------|-----------------------------------|--------|---------|------|------|------|------|
| Well Drilling and Pipeline | Other Material Handling Equipment | Diesel | Average | 1.00 | 4.00 | 100  | 0.40 |
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Average | 4.00 | 4.00 | 350  | 0.38 |
| Substation Development     | Cranes                            | Diesel | Average | 1.00 | 8.00 | 231  | 0.29 |
| Substation Development     | Bore/Drill Rigs                   | Diesel | Average | 1.00 | 8.00 | 221  | 0.50 |
| Substation Development     | Aerial Lifts                      | Diesel | Average | 2.00 | 8.00 | 63.0 | 0.31 |
| Substation Development     | Off-Highway Trucks                | Diesel | Average | 2.00 | 4.00 | 402  | 0.38 |
| Substation Development     | Tractors/Loaders/Back hoes        | Diesel | Average | 1.00 | 8.00 | 97.0 | 0.37 |
| Substation Development     | Forklifts                         | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.20 |
| Substation Development     | Trenchers                         | Diesel | Average | 1.00 | 8.00 | 13.0 | 0.50 |
| Substation Development     | Generator Sets                    | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.74 |
| Substation Development     | Off-Highway Trucks                | Diesel | Average | 5.00 | 4.00 | 350  | 0.38 |
| Testing and Operational    | Generator Sets                    | Diesel | Average | 1.00 | 24.0 | 671  | 0.74 |
| Testing and Operational    | Generator Sets                    | Diesel | Average | 2.00 | 12.0 | 27.0 | 0.74 |
| Testing and Operational    | Generator Sets                    | Diesel | Average | 2.00 | 12.0 | 9.00 | 0.74 |
| Testing and Operational    | Pumps                             | Diesel | Average | 1.00 | 24.0 | 115  | 0.74 |
| Testing and Operational    | Pumps                             | Diesel | Average | 1.00 | 24.0 | 415  | 0.74 |
| Testing and Operational    | Off-Highway Trucks                | Diesel | Average | 1.00 | 4.00 | 350  | 0.38 |



5.2.2. Mitigated

| Phase Name                 | Equipment Type             | Fuel Type | Engine Tier    | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------------------|----------------------------|-----------|----------------|----------------|---------------|------------|-------------|
| Site Preparation           | Off-Highway Trucks         | Diesel    | Tier 4 Interim | 8.00           | 5.00          | 402        | 0.38        |
| Site Preparation           | Excavators                 | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 97.0       | 0.38        |
| Site Preparation           | Rollers                    | Diesel    | Tier 4 Final   | 2.00           | 8.00          | 200        | 0.38        |
| Site Preparation           | Off-Highway Trucks         | Diesel    | Tier 4 Interim | 8.00           | 4.00          | 350        | 0.38        |
| Project Construction       | Aerial Lifts               | Diesel    | Tier 4 Final   | 8.00           | 6.00          | 160        | 0.31        |
| Project Construction       | Excavators                 | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 97.0       | 0.38        |
| Project Construction       | Cranes                     | Diesel    | Tier 4 Final   | 2.00           | 6.00          | 160        | 0.29        |
| Project Construction       | Forklifts                  | Diesel    | Tier 4 Final   | 7.00           | 8.00          | 89.0       | 0.20        |
| Project Construction       | Generator Sets             | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 84.0       | 0.74        |
| Project Construction       | Graders                    | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 187        | 0.41        |
| Project Construction       | Off-Highway Trucks         | Diesel    | Tier 4 Final   | 15.0           | 8.00          | 402        | 0.38        |
| Project Construction       | Rubber Tired Loaders       | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 203        | 0.36        |
| Project Construction       | Tractors/Loaders/Back hoes | Diesel    | Tier 4 Final   | 1.00           | 8.00          | 97.0       | 0.37        |
| Project Construction       | Welders                    | Diesel    | Tier 4 Final   | 15.0           | 6.00          | 46.0       | 0.45        |
| Project Construction       | Off-Highway Trucks         | Diesel    | Tier 4 Final   | 15.0           | 4.00          | 350        | 0.38        |
| Project Construction       | Off-Highway Trucks         | Diesel    | Tier 4 Final   | 15.0           | 4.00          | 245        | 0.38        |
| Well Drilling and Pipeline | Generator Sets             | Diesel    | Average        | 1.00           | 12.0          | 27.0       | 0.74        |
| Well Drilling and Pipeline | Generator Sets             | Diesel    | Tier 4 Final   | 1.00           | 12.0          | 27.0       | 0.74        |
| Well Drilling and Pipeline | Bore/Drill Rigs            | Diesel    | Tier 4 Final   | 1.00           | 24.0          | 500        | 0.50        |
| Well Drilling and Pipeline | Pumps                      | Diesel    | Tier 4 Final   | 1.00           | 24.0          | 500        | 0.74        |
| Well Drilling and Pipeline | Generator Sets             | Diesel    | Tier 4 Final   | 1.00           | 24.0          | 415        | 0.74        |

|                            |                                   |        |              |      |      |      |      |
|----------------------------|-----------------------------------|--------|--------------|------|------|------|------|
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Average      | 4.00 | 1.00 | 450  | 0.38 |
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Tier 4 Final | 4.00 | 1.00 | 450  | 0.38 |
| Well Drilling and Pipeline | Cranes                            | Diesel | Tier 4 Final | 2.00 | 5.00 | 231  | 0.29 |
| Well Drilling and Pipeline | Tractors/Loaders/Back hoes        | Diesel | Tier 4 Final | 1.00 | 6.00 | 97.0 | 0.37 |
| Well Drilling and Pipeline | Forklifts                         | Diesel | Tier 4 Final | 1.00 | 6.00 | 89.0 | 0.20 |
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Tier 4 Final | 4.00 | 10.0 | 385  | 0.38 |
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Tier 4 Final | 4.00 | 4.00 | 428  | 0.38 |
| Well Drilling and Pipeline | Other Material Handling Equipment | Diesel | Tier 4 Final | 1.00 | 4.00 | 100  | 0.40 |
| Well Drilling and Pipeline | Off-Highway Trucks                | Diesel | Tier 4 Final | 4.00 | 4.00 | 350  | 0.38 |
| Substation Development     | Cranes                            | Diesel | Tier 4 Final | 1.00 | 8.00 | 231  | 0.29 |
| Substation Development     | Bore/Drill Rigs                   | Diesel | Tier 4 Final | 1.00 | 8.00 | 221  | 0.50 |
| Substation Development     | Aerial Lifts                      | Diesel | Tier 4 Final | 2.00 | 8.00 | 63.0 | 0.31 |
| Substation Development     | Off-Highway Trucks                | Diesel | Tier 4 Final | 5.00 | 4.00 | 402  | 0.38 |
| Substation Development     | Tractors/Loaders/Back hoes        | Diesel | Tier 4 Final | 1.00 | 8.00 | 97.0 | 0.37 |
| Substation Development     | Forklifts                         | Diesel | Tier 4 Final | 1.00 | 8.00 | 89.0 | 0.20 |
| Substation Development     | Trenchers                         | Diesel | Average      | 1.00 | 8.00 | 13.0 | 0.50 |
| Substation Development     | Generator Sets                    | Diesel | Tier 4 Final | 2.00 | 8.00 | 84.0 | 0.74 |

|                         |                    |        |              |      |      |      |      |
|-------------------------|--------------------|--------|--------------|------|------|------|------|
| Substation Development  | Off-Highway Trucks | Diesel | Tier 4 Final | 5.00 | 4.00 | 350  | 0.38 |
| Testing and Operational | Generator Sets     | Diesel | Tier 4 Final | 2.00 | 24.0 | 671  | 0.74 |
| Testing and Operational | Generator Sets     | Diesel | Tier 4 Final | 2.00 | 12.0 | 27.0 | 0.74 |
| Testing and Operational | Generator Sets     | Diesel | Tier 4 Final | 2.00 | 12.0 | 9.00 | 0.74 |
| Testing and Operational | Pumps              | Diesel | Tier 4 Final | 1.00 | 24.0 | 115  | 0.74 |
| Testing and Operational | Pumps              | Diesel | Tier 4 Final | 1.00 | 24.0 | 415  | 0.74 |
| Testing and Operational | Off-Highway Trucks | Diesel | Tier 4 Final | 1.00 | 4.00 | 350  | 0.38 |

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

| Phase Name                 | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|----------------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation           | —            | —                     | —              | —             |
| Site Preparation           | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |
| Site Preparation           | Vendor       | 10.0                  | 11.9           | HHDT,MHDT     |
| Site Preparation           | Hauling      | 7.00                  | 20.0           | HHDT          |
| Site Preparation           | Onsite truck | —                     | —              | HHDT          |
| Well Drilling and Pipeline | —            | —                     | —              | —             |
| Well Drilling and Pipeline | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |
| Well Drilling and Pipeline | Vendor       | 10.0                  | 11.9           | HHDT,MHDT     |
| Well Drilling and Pipeline | Hauling      | 0.00                  | 20.0           | HHDT          |
| Well Drilling and Pipeline | Onsite truck | —                     | —              | HHDT          |
| Project Construction       | —            | —                     | —              | —             |
| Project Construction       | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |

|                         |              |      |      |               |
|-------------------------|--------------|------|------|---------------|
| Project Construction    | Vendor       | 40.0 | 225  | HHDT,MHDT     |
| Project Construction    | Hauling      | 2.00 | 20.0 | HHDT          |
| Project Construction    | Onsite truck | —    | —    | HHDT          |
| Substation Development  | —            | —    | —    | —             |
| Substation Development  | Worker       | 46.0 | 10.2 | LDA,LDT1,LDT2 |
| Substation Development  | Vendor       | 10.0 | 11.9 | HHDT,MHDT     |
| Substation Development  | Hauling      | 0.00 | 20.0 | HHDT          |
| Substation Development  | Onsite truck | —    | —    | HHDT          |
| Testing and Operational | —            | —    | —    | —             |
| Testing and Operational | Worker       | 46.0 | 10.2 | LDA,LDT1,LDT2 |
| Testing and Operational | Vendor       | 4.00 | 10.2 | HHDT,MHDT     |
| Testing and Operational | Hauling      | 0.00 | 20.0 | HHDT          |
| Testing and Operational | Onsite truck | —    | —    | HHDT          |

5.3.2. Mitigated

| Phase Name                 | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|----------------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation           | —            | —                     | —              | —             |
| Site Preparation           | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |
| Site Preparation           | Vendor       | 10.0                  | 11.9           | HHDT,MHDT     |
| Site Preparation           | Hauling      | 7.00                  | 20.0           | HHDT          |
| Site Preparation           | Onsite truck | —                     | —              | HHDT          |
| Well Drilling and Pipeline | —            | —                     | —              | —             |
| Well Drilling and Pipeline | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |
| Well Drilling and Pipeline | Vendor       | 10.0                  | 11.9           | HHDT,MHDT     |
| Well Drilling and Pipeline | Hauling      | 0.00                  | 20.0           | HHDT          |
| Well Drilling and Pipeline | Onsite truck | —                     | —              | HHDT          |
| Project Construction       | —            | —                     | —              | —             |
| Project Construction       | Worker       | 46.0                  | 10.2           | LDA,LDT1,LDT2 |

|                         |              |      |      |               |
|-------------------------|--------------|------|------|---------------|
| Project Construction    | Vendor       | 40.0 | 225  | HHDT,MHDT     |
| Project Construction    | Hauling      | 2.00 | 20.0 | HHDT          |
| Project Construction    | Onsite truck | —    | —    | HHDT          |
| Substation Development  | —            | —    | —    | —             |
| Substation Development  | Worker       | 46.0 | 10.2 | LDA,LDT1,LDT2 |
| Substation Development  | Vendor       | 10.0 | 11.9 | HHDT,MHDT     |
| Substation Development  | Hauling      | 0.00 | 20.0 | HHDT          |
| Substation Development  | Onsite truck | —    | —    | HHDT          |
| Testing and Operational | —            | —    | —    | —             |
| Testing and Operational | Worker       | 46.0 | 10.2 | LDA,LDT1,LDT2 |
| Testing and Operational | Vendor       | 4.00 | 10.2 | HHDT,MHDT     |
| Testing and Operational | Hauling      | 0.00 | 20.0 | HHDT          |
| Testing and Operational | Onsite truck | —    | —    | HHDT          |

### 5.4. Vehicles

#### 5.4.1. Construction Vehicle Control Strategies

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

### 5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------|--|--|--|--|-----------------------------|
|------------|--|--|--|--|-----------------------------|

### 5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (Ton of Debris) | Material Exported (Ton of Debris) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------------|-----------------------------------|-----------------------------------|----------------------|-------------------------------|---------------------|
| Site Preparation | 0.00                              | 0.00                              | 0.00                 | 0.00                          | —                   |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area         | 2                   | 61%            | 61%             |

5.7. Construction Paving

| Land Use               | Area Paved (acres) | % Asphalt |
|------------------------|--------------------|-----------|
| General Heavy Industry | 0.00               | 0%        |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2025 | 0.00         | 457 | 0.03 | < 0.005 |
| 2026 | 0.00         | 457 | 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 |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Total all Land Uses | 6.00          | 3.00           | 3.00         | 1,877      | 61.2        | 30.6         | 30.6       | 19,147   |

5.9.2. Mitigated

| Land Use Type       | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year |
|---------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|----------|
| Total all Land Uses | 6.00          | 3.00           | 3.00         | 1,877      | 61.2        | 30.6         | 30.6       | 19,147   |

### 5.10. Operational Area Sources

#### 5.10.1. Hearths

##### 5.10.1.1. Unmitigated

##### 5.10.1.2. Mitigated

#### 5.10.2. Architectural Coatings

| Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|--|--|--|--|-----------------------------|
| 0  | 0.00                                     | 0.00   | 0.00   | 2.00                        |

#### 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) |
|------------------------|----------------------|-----|--------|--------|-----------------------|
| General Heavy Industry | 0.00                 | 457 | 0.0330 | 0.0040 | 0.00                  |

5.11.2. Mitigated

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

| Land Use               | Electricity (kWh/yr) | CO2 | CH4    | N2O    | Natural Gas (kBTU/yr) |
|------------------------|----------------------|-----|--------|--------|-----------------------|
| General Heavy Industry | 0.00                 | 457 | 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) |
|------------------------|-------------------------|--------------------------|
| General Heavy Industry | 0.00                    | 118,625                  |

5.12.2. Mitigated

| Land Use               | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|------------------------|-------------------------|--------------------------|
| General Heavy Industry | 0.00                    | 118,625                  |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use               | Waste (ton/year) | Cogeneration (kWh/year) |
|------------------------|------------------|-------------------------|
| General Heavy Industry | 0.00             | —                       |

5.13.2. Mitigated

| Land Use               | Waste (ton/year) | Cogeneration (kWh/year) |
|------------------------|------------------|-------------------------|
| General Heavy Industry | 0.00             | —                       |



|                        |      |   |
|------------------------|------|---|
| General Heavy Industry | 0.00 | — |
|------------------------|------|---|

### 5.14. Operational Refrigeration and Air Conditioning Equipment

#### 5.14.1. Unmitigated

| Land Use Type          | Equipment Type                      | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|------------------------|-------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| General Heavy Industry | Other commercial A/C and heat pumps | R-410A      | 2,088 | 0.00          | 4.00                 | 4.00              | 18.0           |

#### 5.14.2. Mitigated

| Land Use Type          | Equipment Type                      | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|------------------------|-------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| General Heavy Industry | Other commercial A/C and heat pumps | R-410A      | 2,088 | 0.00          | 4.00                 | 4.00              | 18.0           |

### 5.15. Operational Off-Road Equipment

#### 5.15.1. Unmitigated

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

#### 5.15.2. Mitigated

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

### 5.16. Stationary Sources

#### 5.16.1. Emergency Generators and Fire Pumps

| Equipment Type      | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|---------------------|-----------|----------------|---------------|----------------|------------|-------------|
| Emergency Generator | Diesel    | 1.00           | 0.14          | 50.0           | 540        | 0.73        |
| Fire Pump           | Diesel    | 1.00           | 0.11          | 40.0           | 3.00       | 0.73        |

5.16.2. Process Boilers

| Equipment Type | Fuel Type | Number | Boiler Rating (MMBtu/hr) | Daily Heat Input (MMBtu/day) | Annual Heat Input (MMBtu/yr) |
|----------------|-----------|--------|--------------------------|------------------------------|------------------------------|
|----------------|-----------|--------|--------------------------|------------------------------|------------------------------|

5.17. User Defined

| Equipment Type | Fuel Type |
|----------------|-----------|
|----------------|-----------|

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1.2. Mitigated

| Vegetation Land Use Type | Vegetation Soil Type | Initial Acres | Final Acres |
|--------------------------|----------------------|---------------|-------------|
|--------------------------|----------------------|---------------|-------------|

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.1.2. Mitigated

| Biomass Cover Type | Initial Acres | Final Acres |
|--------------------|---------------|-------------|
|--------------------|---------------|-------------|

5.18.2. Sequestration

5.18.2.1. Unmitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

5.18.2.2. Mitigated

| Tree Type | Number | Electricity Saved (kWh/year) | Natural Gas Saved (btu/year) |
|-----------|--------|------------------------------|------------------------------|
|-----------|--------|------------------------------|------------------------------|

## 6. Climate Risk Detailed Report

### 6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--|
| Temperature and Extreme Heat | 28.2                        | annual days of extreme heat                |
| Extreme Precipitation        | 0.10                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | —                           | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

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

Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about 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 | 2              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Wildfire                | N/A | N/A | N/A | N/A |
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | 0   | 0   | 0   | 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 | 2              | 1                 | 1                       | 3                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | N/A            | N/A               | N/A                     | N/A                 |
| Wildfire                     | N/A            | N/A               | N/A                     | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | 1              | 1                 | 1                       | 2                   |
| 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                        | 65.7                            |
| AQ-PM                           | 48.7                            |
| AQ-DPM                          | 30.1                            |
| Drinking Water                  | 57.2                            |
| Lead Risk Housing               | 30.7                            |
| Pesticides                      | 89.5                            |
| Toxic Releases                  | 46.0                            |
| Traffic                         | 8.75                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 50.3                            |
| Groundwater                     | 74.8                            |
| Haz Waste Facilities/Generators | 86.6                            |
| Impaired Water Bodies           | 99.5                            |
| Solid Waste                     | 95.0                            |
| Sensitive Population            | —                               |
| Asthma                          | 68.5                            |
| Cardio-vascular                 | 89.4                            |
| Low Birth Weights               | 20.3                            |
| Socioeconomic Factor Indicators | —                               |
| Education                       | 73.4                            |
| Housing                         | 39.7                            |
| Linguistic                      | 85.2                            |
| Poverty                         | 72.1                            |
| Unemployment                    | 65.6                            |

## 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                                | 24.4193507                      |
| Employed                                     | 22.93083537                     |
| Median HI                                    | 21.92993712                     |
| Education                                    | —                               |
| Bachelor's or higher                         | 23.23880405                     |
| High school enrollment                       | 14.0639035                      |
| Preschool enrollment                         | 58.10342615                     |
| Transportation                               | —                               |
| Auto Access                                  | 48.80020531                     |
| Active commuting                             | 25.67688952                     |
| Social                                       | —                               |
| 2-parent households                          | 77.12049275                     |
| Voting                                       | 20.99319902                     |
| Neighborhood                                 | —                               |
| Alcohol availability                         | 67.0986783                      |
| Park access                                  | 38.22661363                     |
| Retail density                               | 7.955857821                     |
| Supermarket access                           | 24.95829591                     |
| Tree canopy                                  | 1.424355191                     |
| Housing                                      | —                               |
| Homeownership                                | 51.98254844                     |
| Housing habitability                         | 38.4832542                      |
| Low-inc homeowner severe housing cost burden | 37.62350828                     |
| Low-inc renter severe housing cost burden    | 23.55960477                     |

|                                       |             |
|---------------------------------------|-------------|
| Uncrowded housing                     | 28.33311947 |
| Health Outcomes                       | —           |
| Insured adults                        | 30.39907609 |
| Arthritis                             | 0.0         |
| Asthma ER Admissions                  | 42.3        |
| High Blood Pressure                   | 0.0         |
| Cancer (excluding skin)               | 0.0         |
| Asthma                                | 0.0         |
| Coronary Heart Disease                | 0.0         |
| Chronic Obstructive Pulmonary Disease | 0.0         |
| Diagnosed Diabetes                    | 0.0         |
| Life Expectancy at Birth              | 90.7        |
| Cognitively Disabled                  | 19.2        |
| Physically Disabled                   | 15.4        |
| Heart Attack ER Admissions            | 7.5         |
| Mental Health Not Good                | 0.0         |
| Chronic Kidney Disease                | 0.0         |
| Obesity                               | 0.0         |
| Pedestrian Injuries                   | 39.5        |
| Physical Health Not Good              | 0.0         |
| Stroke                                | 0.0         |
| Health Risk Behaviors                 | —           |
| Binge Drinking                        | 0.0         |
| Current Smoker                        | 0.0         |
| No Leisure Time for Physical Activity | 0.0         |
| Climate Change Exposures              | —           |
| Wildfire Risk                         | 0.0         |
| SLR Inundation Area                   | 0.0         |

|                                  |      |
|----------------------------------|------|
| Children                         | 33.8 |
| Elderly                          | 39.7 |
| English Speaking                 | 4.1  |
| Foreign-born                     | 93.6 |
| Outdoor Workers                  | 18.3 |
| Climate Change Adaptive Capacity | —    |
| Impervious Surface Cover         | 72.6 |
| Traffic Density                  | 16.8 |
| Traffic Access                   | 23.0 |
| Other Indices                    | —    |
| Hardship                         | 80.6 |
| Other Decision Support           | —    |
| 2016 Voting                      | 0.0  |

### 7.3. Overall Health & Equity Scores

| Metric  | Result for Project Census Tract |
|---|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 84.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 26.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | Yes                             |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | Yes                             |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

### 7.4. Health & Equity Measures

No Health & Equity Measures selected.

### 7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.



### 7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

## 8. User Changes to Default Data

| Screen                              | Justification  |
|-------------------------------------|--|
| Land Use                            | —  |
| Construction: Construction Phases   | Project schedule per ORMAT 7/8/2024 - overlapping phases with work assumed to be conducted 7 days/week   |
| Construction: Off-Road Equipment    | Project equipment and usage per ORMAT Project description based on experience with similar projects.<br>Building Construction-"Well Drilling and Pipeline" - note that "Other Material Handling Equipment" is specified for Concrete Pumper  |
| Construction: Trips and VMT         | Vehicle trips per ORMAT Project Description based on experience with similar projects. Vendor/haul trips based on amount of material and equipment expected to be delivered/hailed to/from Project site. Delivery of materials for geothermal plant assumed to be sourced from Port of Long Beach area approximately 225 miles away. All other trip lengths are CalEEMod defaults for project area. Worker trips generation rate is calculated for the expected maximum of 15 workers traveling to/from the Project site on any given day at roughly 3 trips/worker (assumed 50 percent of 15 workers leave/return once during the day) for a total of 46 trips, and 2 trips/vehicle (in/out) for vendor and haul trips. |
| Construction: On-Road Fugitive Dust | All travel routes to Project site are paved, only onsite work is unpaved. Per discussions with ICAPCD, a maximum of 85% paved is input for all construction activities (note that all access routes to project site are paved)   |
| Operations: Road Dust               | All travel routes to project site area paved - only onsite access is unpaved. Per discussions with ICAPCD, 85% paved access to Project areas is assumed - note that all access routes to project site are paved.   |
| Operations: Consumer Products       | The Project does not include additional use of consumer products, is not a city park/golf course, and does not have any paved parking areas  |
| Operations: Architectural Coatings  | Assume no architectural coating reapplication required for Project operations.   |
| Operations: Energy Use              | All electricity required for operations would be generated by solar plants and geothermal energy production. No energy from the grid would be required.  |
| Operations: Water and Waste Water   | Per Project description, 325 gpd of non-potable water is required for operations and sourced from existing IID allocation. Non-potable water from IID does not require treatment - assume 0 kWh/Mgal for Treat and Treatment. Wastewater to wastewater treatment system is assumed to be negligible.   |

|   |   |
|---|---|
| Operations: Solid Waste                         | Project operations solid waste generation is negligible.  |
| Operations: Refrigerants                        | No refrigerants proposed as part of Project operations.   |
| Operations: Emergency Generators and Fire Pumps | Per ORMAT based on expected onsite project emergency equipment sizing and usage to comply with maintenance regulations. |