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# **Appendix B**

## Air Quality and GHG Emissions Technical Report



**SoCalGas**

**Ventura Compressor  
Station  
Modernization Project**

**1555 N. Olive St.  
Ventura, CA 93001**

**April 2023**

**Prepared by:**



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**Ventura Compressor Station  
Modernization Project  
Air Quality and Greenhouse Gas  
Emissions Technical Report**

**SoCalGas**  
**Ventura Compressor Station**  
**Modernization Project**  
**Air Quality and Greenhouse**  
**Gas Emissions Technical**  
**Report**

Prepared for:

**SoCalGas**  
**Ventura Compressor Station**  
**1555 North Olive Street,**  
**Ventura, CA 93001**

April 2023

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## List of Acronyms and Abbreviations

|                  |   |
|------------------|---|
| AAQS             | Ambient Air Quality Standard                          |
| AERMOD           | American Meteorological Society/EPA Regulatory Model  |
| AQIA             | Air Quality Impact Analysis                           |
| AQMP             | Air Quality Management Plan                           |
| ATC              | Authority to Construct                                |
| BAAQMD           | Bay Area Air Quality Management District              |
| BACT             | Best Available Control Technology                     |
| BHP              | Brake Horsepower                                      |
| BMP              | Best Management Practice                              |
| Btu              | British Thermal Unit                                  |
| CAAQS            | California Ambient Air Quality Standard               |
| CalEEMod         | California Emissions Estimator Model <sup>®</sup>     |
| CAPCOA           | California Air Pollution Control Officers Association |
| CARB             | California Air Resources Board                        |
| CEQA             | California Environmental Quality Act                  |
| CFR              | Code of Federal Regulations                           |
| CH <sub>4</sub>  | Methane   |
| CO               | Carbon Monoxide                                       |
| CO <sub>2</sub>  | Carbon Dioxide  |
| CO <sub>2e</sub> | Carbon Dioxide Equivalent                             |
| CPUC             | California Public Utilities Commission                |
| DPM              | Diesel Particulate Matter                             |
| EDC              | Electric-Driven Compressor                            |
| EIA              | [United States] Energy Information Administration     |
| EPA              | [United States] Environmental Protection Agency       |
| GHG              | Greenhouse Gas  |
| GLC              | Ground Level Concentration                            |
| GWP              | Global Warming Potential                              |
| HAE              | Historic Actual Emissions                             |
| HARP2            | Hotspots Analysis and Reporting Program, Version 2    |
| HHDT             | Heavy-Heavy Duty Truck                                |
| HIA              | Acute Hazard Index                                    |
| HIC              | Chronic Hazard Index                                  |
| HP               | Horsepower  |
| HRA              | Health Risk Assessment                                |
| hr               | Hour  |
| IPCC             | Intergovernmental Panel on Climate Change             |
| kW               | Kilowatt  |
| lb               | Pound   |

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|                   |   |
|-------------------|---|
| LDA               | Light Duty Automobile   |
| LDAR              | Leak Detection and Reporting                                  |
| LDT               | Light Duty Truck  |
| MEIR              | Maximally Exposed Individual Resident                         |
| MEIW              | Maximally Exposed Individual Worker                           |
| MHDT              | Medium Heavy-Duty Truck                                       |
| MICR              | Maximum Individual Cancer Risk                                |
| MMBtu             | Million British Thermal Units                                 |
| MMscf             | Million Standard Cubic Feet                                   |
| MT                | Metric Ton  |
| MWh               | Megawatt-hour   |
| NA                | Not Applicable  |
| NAAQS             | National Ambient Air Quality Standard                         |
| NEI               | Net Emissions Increase  |
| N <sub>2</sub> O  | Nitrous Oxide   |
| NO <sub>x</sub>   | Nitrogen Oxides   |
| NSCR              | Non-Selective Catalytic Reduction                             |
| NSR               | New Source Review   |
| OEHHA             | [California] Office of Environmental Health Hazard Assessment |
| OPR               | [California] Office of Planning and Research                  |
| PEA               | Proponents Environmental Assessment                           |
| PM <sub>10</sub>  | Respirable Particulate Matter                                 |
| PM <sub>2.5</sub> | Fine Particulate Matter                                       |
| PTE               | Potential to Emit   |
| ROC               | Reactive Organic Compound                                     |
| R/ODS             | Refrigerants/Ozone-Depleting Substances                       |
| SCAQMD            | South Coast Air Quality Management District                   |
| SCE               | Southern California Edison                                    |
| SIL               | Significant Impact Level                                      |
| SJVAPCD           | San Joaquin Valley Air Pollution Control District             |
| SoCalGas          | Southern California Gas Company                               |
| SO <sub>2</sub>   | Sulfur Dioxide  |
| SO <sub>x</sub>   | Oxides of Sulfur  |
| TAC               | Toxic Air Contaminant   |
| TCR               | The Climate Registry  |
| VCAPCD            | Ventura County Air Pollution Control District                 |
| VCS               | Ventura Compressor Station                                    |
| VMT               | Vehicle Miles Traveled  |
| VOC               | Volatile Organic Compound                                     |
| yr                | year  |
| µg/m <sup>3</sup> | micrograms per cubic meter                                    |

# Ventura Compressor Station Modernization Project Air Quality and Greenhouse Gas Emissions Technical Report

## 1.0 BACKGROUND

### 1.1 Project Components

SoCalGas is proposing a project to modernize the Ventura Compressor Station (VCS) by replacing the existing gas compression equipment at this site with new compression equipment that has state of the art air emission controls. The VCS is a natural gas gathering and boosting station with high-pressure gas transmission pipelines entering and leaving the station to move gas to the SoCalGas La Goleta Storage Field, as well as provide service to customers in the system. The VCS is located at 1555 North Olive Street, Ventura, CA 93001.

The existing facility consists of three 1,100 horsepower (HP) natural gas-fired reciprocating internal combustion engines that drive high-pressure gas compressors (natural gas compressors) and one 68 HP diesel-fired emergency generator engine. The existing equipment will be decommissioned and demolished approximately 1 year after the replacement equipment is fully operational with demonstrated reliability.

The proposed VCS Modernization Project (Project) includes installation of four new reciprocating compressors: two each driven by 1,900-HP natural gas engines with non-selective catalytic reduction (NSCR) emission control equipment and two each nominal up to 2,500 HP (1,963 kilowatts [kW]) electric-driven compressors (EDCs), as well as one new 840-HP natural gas-fired standby generator engine, rated at approximately 560 kW peak output power. New structures include the compressor building, office building, warehouse, and standby generator enclosure. Additional ancillary equipment includes gas filtration equipment, supporting mechanical equipment, and storage tanks/drums, where the engine oil, oil waste, and oily waste storage drums are anticipated to be the only ancillary equipment that could have air pollutant emissions, albeit the emissions would be negligible. The proposed facility enhancements would increase electric power demand, primarily for operation of the new EDCs. No off-site road improvements, pipeline extensions, or other permanent infrastructure would be necessary to construct the Project.

SoCalGas submitted an Authority to Construct (ATC) application package for a prior proposed Project that consisted of four replacement natural gas-fired engines in March 2020 and a preliminary draft ATC was provided by the Ventura County Air Pollution Control District (VCAPCD) in November 2020. That application has been withdrawn pending development of this revised Project.

### 1.2 Report Contents

This technical report analyzes impacts from air quality and greenhouse gas (GHG) emissions related to construction and operation of the proposed Project. The proposed Project criteria pollutant and GHG emissions and the effect of emissions on air quality are compared to relevant California Environmental Quality Act (CEQA) significance thresholds to determine the significance of the potential impacts.

## 2.0 AIR QUALITY IMPACT ANALYSES

The air quality impact analyses were prepared in accordance with the VCAPCD's Ventura County Air Quality Assessment Guidelines (VCAPCD Guidelines) (VCAPCD 2003).

### 2.1 Air Quality Thresholds of Significance

#### 2.1.1 Criteria Pollutant Emissions

"Criteria" pollutants are those for which health-based standards have been established on either the national or State level. Ventura County has been designated as being over the established health-based ambient air quality standards (AAQS) at both the State and national levels for ozone and over the State standards for respirable particulate matter (PM<sub>10</sub>). Ozone is not typically a directly emitted pollutant, but rather is a result of atmospheric photochemical reactions of nitrogen oxides (NO<sub>x</sub>) and reactive organic compounds (ROC) "precursor" emissions in the presence of sunlight. Therefore, these "nonattainment" pollutants are of the most concern in determining the potential for a project in Ventura County to impact air quality.

##### 2.1.1.1 Construction Emissions Significance Thresholds

The VCAPCD Guidelines provide significance thresholds for the ozone precursors NO<sub>x</sub> and ROC of 25 pounds per day of emissions from construction activities related to a project as shown in Table 2-1 (VCAPCD 2003).

**Table 2-1: VCAPCD CEQA Mass Daily Significance Thresholds**

| Pollutant       | Project Emissions Significance Threshold<br>(lbs/day) |
|-----------------|---|
| ROC             | 25  |
| NO <sub>x</sub> | 25  |

Source: VCAPCD 2003

For construction impacts, rather than having numeric significance thresholds for respirable particulate matter (PM<sub>10</sub>), the VCAPCD Guidelines recommend minimizing fugitive dust through dust control measures.

Impacts related to fugitive dust are mitigated by the application of Best Management Practices (BMPs) such as watering, limiting track-out, covering haul trucks carrying bulk materials with a tarp, and reducing speed on unpaved areas. These measures are required by VCAPCD Rule 55, Fugitive Dust, which minimizes fugitive dust generation. Other BMPs such as limiting construction activities during high wind events are recommended by the California Public Utilities Commission (CPUC) Guidelines (2019). The BMPs that will be implemented for the Project are discussed in Section 5.3, Air Quality, of the Proponents Environmental Assessment (PEA).

##### 2.1.1.2 Operational Emissions Significance Thresholds

According to the VCAPCD Guidelines, the thresholds shown in Table 2-1 are applied to unpermitted sources of NO<sub>x</sub> and ROC emissions associated with operation of the Project. Emissions from equipment requiring VCAPCD permits, specifically stationary equipment, are not counted towards these air quality significance thresholds because they are subject to rigorous New Source Review (NSR) permit requirements. Unpermitted sources are not

subject to these NSR rules but could contribute ozone precursor emissions, which would exacerbate exceedances of the State and national ozone AAQS.

The VCAPCD Guidelines do not provide numeric thresholds for operational emissions of PM<sub>10</sub> or other criteria pollutants. The VCAPCD’s NSR program and other rules and regulations would limit criteria pollutant emissions from stationary sources and minimize the potential for emissions of other pollutants to lead to significant impacts. A modeling analysis of air quality impacts may also be needed as discussed below.

### 2.1.2 Criteria Pollutants – Air Quality Impact Analysis

VCAPCD Guidelines indicate that for criteria pollutants other than NO<sub>x</sub> and ROC, an Air Quality Impact Analysis (AQIA) based on dispersion modeling may be needed to demonstrate that the emissions will not cause a substantial contribution to an existing exceedance of an air quality standard. “Substantial” is defined as making measurably worse an existing exceedance of a National or California Ambient Air Quality Standard (NAAQS/CAAQS). Because Ventura County is designated as nonattainment for the PM<sub>10</sub> CAAQS, a demonstration that the Project will not contribute to an exceedance is needed.

The California Office of Planning and Research (OPR) CEQA Guidelines (Title 14, Division 6, Chapter 3 of the California Code of Regulations) Appendix G checklist questions (OPR 2022) require assessment of any criteria pollutant for which the project region is designated as nonattainment under an applicable NAAQS or CAAQS to determine if there would be a cumulatively considerable net increase of that pollutant. Ventura County is designated as attainment for the NAAQS and CAAQS for carbon monoxide (CO), sulfur dioxide (SO<sub>2</sub>), and fine particulate matter (PM<sub>2.5</sub>), as well as other pollutants for which there are CAAQS, but is designated as nonattainment of the CAAQS for PM<sub>10</sub>. Based on the OPR CEQA Guidelines, AQIA modeling is only needed for PM<sub>10</sub>.

Since Ventura County is nonattainment for PM<sub>10</sub>, the background concentration is greater than the CAAQS; thus, the AQIA modeling results are compared to Significant Impact Levels (SILs) to determine if the Project will have a “significant contribution” to an existing exceedance. Because the VCAPCD Guidelines do not identify SILs for PM<sub>10</sub>, the PM<sub>10</sub> SILs provided in the San Joaquin Valley Air Pollution Control District (SJVAPCD) Policy APR 1925 were used to assess the PM<sub>10</sub> impacts for the proposed Project and are shown in Table 2-2.

**Table 2-2: AQIA Significant Impact Levels for PM<sub>10</sub>**

| Pollutant        | Averaging Time | Significant Impact Level (SIL) <sup>1</sup><br>(µg/m <sup>3</sup> ) |
|------------------|----------------|---|
| PM <sub>10</sub> | 24 Hour        | 5.0   |
|                  | Annual         | 1.0   |

Note:

1. SJVAPCD Policy APR 1925 (2014)

### 2.1.3 Toxic Air Contaminants

In addition to criteria pollutants, carcinogenic and other health effects can be caused by toxic air contaminant (TAC) emissions. Impacts from TAC emissions are estimated by

conducting a health risk assessment (HRA). The VCAPCD Guidelines (2003) have defined significance criteria for health risks as shown in Table 2-3.

**Table 2-3: VCAPCD HRA Significance Thresholds**

| Risk                                  | Threshold         |
|---------------------------------------|-------------------|
| Maximum Individual Cancer Risk (MICR) | 10 in one million |
| Chronic Hazard Index (HIC)            | 1                 |
| Acute Hazard Index (HIA)              | 1                 |

## 2.2 Proposed Project Construction and Operations Emissions Analyses

### 2.2.1 Construction and Demolition Emissions Impact Analysis

#### 2.2.1.1 Construction and Demolition Emissions Calculation Methodology

The analysis of offroad construction/demolition emissions was performed using the California Emissions Estimator Model<sup>®</sup> (CalEEMod) version 2022.1, the official statewide land use computer model designed to provide a uniform platform for estimating potential criteria pollutant and GHG emissions associated with both construction and operations of projects under CEQA. The model quantifies direct emissions from construction (including demolition) and operations (including vehicle use), as well as indirect emissions, such as GHG emissions from electricity use, solid waste disposal, vegetation planting and/or removal, and water use.

The mobile source emission factors used in the model – published by the California Air Resources Board (CARB) – include the Pavley standards and Low Carbon Fuel standards. The emissions model also identifies project design features, regulatory measures, and mitigation measures to reduce criteria pollutant and GHG emissions along with calculating the benefits achieved from the selected measures. CalEEMod was developed by the California Air Pollution Control Officers Association (CAPCOA) in collaboration with the South Coast Air Quality Management District (SCAQMD), the Bay Area Air Quality Management District (BAAQMD), the SJVAPCD, and other California air districts. Default land use data (e.g., emission factors, trip lengths, meteorology, source inventory, etc.) were provided by the various California air districts to account for local requirements and conditions. As the official assessment methodology for land use projects in California, CalEEMod is relied upon herein for construction offroad emissions quantification, which forms the basis for the emissions impact analyses.

#### 2.2.1.2 Proposed Project Construction and Demolition Description

The proposed Project is expected to require up to approximately 25 months of planned work activities (i.e., from mobilization to substantial completion) comprising of the following construction phases:

- |   |   |
|---|---|
| 1) Subsurface Exploration                                     | 7) Electrical & Instrumentation                             |
| 2) Existing Project Site Demo                                 | 8) Paving   |
| 3) Site Preparation/ Rough Grading                            | 9) Painting/Insulation                                      |
| 4) Foundations  | 10) Pre-Commissioning/Commissioning/<br>Startup and Testing |
| 5) Trenching/Undergrounds                                     | 11) Post Construction/Site Restoration                      |
| 6) Equipment, Structural Steel &<br>Building Erection, Piping |   |

Phase 2, Existing Project Site Demo, includes demolition of existing paved (asphalt and concrete) surfaces at the southern half of the Project site as well as other infrastructure around the site. Approximately 1 year after the proposed new compressors are fully operational, the existing equipment will be decommissioned and removed from the site (Phase 12). A description of the activities planned for each of these phases is provided in Chapter 3, Project Description, of the PEA.

Based on information received from SoCalGas, data used for CalEEMod inputs for construction are presented in Table 2-4. Since demolition of the existing structures will be done approximately 1 year after the replacement compressors are fully operational, the estimated square footages of the structures to be demolished during the decommissioning demolition phase (Phase 12) are presented separately in Table 2-5. A preliminary construction/demolition schedule is shown in Table 2-6. The proposed list of offroad construction/demolition equipment is shown in Table 2-7. CalEEMod defaults were used for the offroad construction/demolition equipment load factor. CalEEMod defaults were also used for the HP of the electric and some diesel offroad equipment when the HP was not available.

**Table 2-4: Proposed Project Construction Land Use Data for CalEEMod Input**

| Project Element                          | CalEEMod Land Use Type | Land Use Subtype        | Square Feet    | Acres Disturbed |
|--|------------------------|-------------------------|----------------|-----------------|
| Office                                   | Commercial             | General Office Building | 4,641          | 0.11            |
| Warehouse                                | Industrial             | General Heavy Industry  | 5,459          | 0.13            |
| Compressor Station                       | Industrial             | General Heavy Industry  | 10,458         | 0.24            |
| Power Distribution Center (PDC) Building | Industrial             | General Heavy Industry  | 2,016          | 0.05            |
| Standby Generator Enclosure              | Industrial             | General Heavy Industry  | 442            | 0.01            |
| Paved Areas                              | Parking                | Other Asphalt Surfaces  | 343,759        | 7.89            |
| <b>All Project Sites</b>                 |                        |                         | <b>366,775</b> | <b>8.42</b>     |

Source: SoCalGas, CalEEMod version 2022.1

Notes:

Climate Zone 8 – Ventura, Ventura County  
 Electric Utility: SCE

**Table 2-5: Proposed Structure Demolition Data for CalEEMod Input**

| Project Element                            | Square Feet   | Acres       |
|--|---------------|-------------|
| Office Trailer                             | 1,500         | 0.03        |
| Storage Containers                         | 1,500         | 0.03        |
| Compressor Building, Piping, and Equipment | 19,000        | 0.44        |
| <b>All Project Sites</b>                   | <b>22,000</b> | <b>0.51</b> |

Source: SoCalGas

Notes:

Climate Zone 8 – Ventura, Ventura County  
 Electric Utility: SCE

**Table 2-6: Proposed Project Preliminary Construction/Demolition Schedule by Phase**

| Phase                   | Construction Phase | Phase Start Date <sup>1</sup>                           | Phase End Date | Expected Working Days Per Phase |     |
|-------------------------|--------------------|---|----------------|---------------------------------|-----|
| Construction            | 1                  | Subsurface Exploration                                  | 5/1/2029       | 7/3/2029                        | 46  |
|                         | 2                  | Existing Project Site Demolition                        | 6/15/2029      | 6/29/2029                       | 11  |
|                         | 3                  | Site Preparation/Rough Grading                          | 7/4/2029       | 7/25/2029                       | 16  |
|                         | 4                  | Foundations   | 8/1/2029       | 3/20/2030                       | 166 |
|                         | 5                  | Trenching/Undergrounds                                  | 2/1/2030       | 4/19/2030                       | 56  |
|                         | 6                  | Equipment, Structural Steel & Building Erection, Piping | 10/1/2029      | 7/22/2030                       | 211 |
|                         | 7                  | Electrical & Instrumentation                            | 6/1/2030       | 4/5/2031                        | 220 |
|                         | 8                  | Paving  | 6/1/2031       | 7/27/2031                       | 40  |
|                         | 9                  | Painting/Insulation                                     | 7/1/2031       | 8/26/2031                       | 41  |
|                         | 10                 | Commissioning/Startup and Testing                       | 5/1/2031       | 9/30/2031                       | 109 |
|                         | 11                 | Site Restoration <sup>2</sup>                           | –              | –                               | 20  |
| Demolition <sup>3</sup> | 12                 | Decommissioning Demolition                              | 10/1/2032      | 12/30/2032                      | 65  |

Notes:

1. This analysis assumed construction would start in May 2029. Current expectation is that construction will start in July or August 2029. The analysis was not revised because the earlier start date is conservative.
2. No offroad equipment are expected to be used for Phase 11, so specific start and end dates are not included.
3. Decommissioning demolition is assumed to be done approximately one year after the new replacement compressors are fully operational.

**Table 2-7: Proposed Project Offroad Construction Equipment Used for CalEEMod Input**

| Phase Name  | Equipment Type            | HP <sup>1</sup> | No. per Day | Fuel Type <sup>2</sup> | Hours Per Day <sup>3</sup> | Load Factor <sup>4</sup> |
|---|---------------------------|-----------------|-------------|------------------------|----------------------------|--------------------------|
| 1<br>Subsurface Exploration<br>(Site Preparation)       | Tractors/Loaders/Backhoes | 107             | 1           | Diesel                 | 9                          | 0.37                     |
|   | Excavators                | 45              | 1           | Diesel                 | 9                          | 0.38                     |
|   | Air Compressors           | 2               | 1           | Diesel                 | 9                          | 0.48                     |
|   | Off-Highway Trucks        | 500             | 1           | Diesel                 | 9                          | 0.38                     |
|   | Tractors/Loaders/Backhoes | 321             | 1           | Diesel                 | 9                          | 0.37                     |
|   | Bore/Drill Rigs           | 300             | 1           | Diesel                 | 9                          | 0.50                     |
| 2<br>Existing Project Site Demolition<br>(Demolition A) | Concrete/Industrial Saws  | 33              | 1           | Diesel                 | 9                          | 0.73                     |
|   | Tractors/Loaders/Backhoes | 107             | 1           | Diesel                 | 9                          | 0.37                     |
|   | Excavators                | 45              | 1           | Diesel                 | 9                          | 0.38                     |
|   | Air Compressors           | 2               | 1           | Diesel                 | 9                          | 0.48                     |
|   | Off-Highway Trucks        | 500             | 1           | Diesel                 | 9                          | 0.38                     |
|   | Tractors/Loaders/Backhoes | 321             | 1           | Diesel                 | 9                          | 0.37                     |
|   | Skid Steer Loaders        | 65              | 1           | Diesel                 | 9                          | 0.37                     |

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| Phase Name |  | Equipment Type            | HP <sup>1</sup>                           | No. per Day        | Fuel Type <sup>2</sup> | Hours Per Day <sup>3</sup> | Load Factor <sup>4</sup> |
|------------|--|---------------------------|---|--------------------|------------------------|----------------------------|--------------------------|
| 3          | Site Preparation/<br>Rough Grading<br>(Grading)  | Excavators                | 45  | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Tractors/Loaders/Backhoes | 107                                       | 1                  | Diesel                 | 9                          | 0.37                     |
|            |  | Air Compressors           | 2   | 1                  | Diesel                 | 9                          | 0.48                     |
|            |  | Rubber Tired Dozers       | 367                                       | 1                  | Diesel                 | 8 <sup>5</sup>             | 0.40                     |
|            |  | Off-Highway Trucks        | 500                                       | 1                  | Diesel                 | 9                          | 0.38                     |
| 4          | Foundations<br>(Building<br>Construction 1)  | Air Compressors           | 10  | 1                  | Diesel                 | 9                          | 0.48                     |
|            |  | Cranes                    | 275                                       | 1                  | Diesel                 | 9                          | 0.29                     |
|            |  | Excavators                | 45  | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Excavators                | 346                                       | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Forklifts                 | 74  | 1                  | Diesel                 | 9                          | 0.20                     |
|            |  | Forklifts                 | [82]                                      | 1                  | Electric               | 9                          | 0.20                     |
|            |  | Generator Sets            | 49  | 4                  | Diesel                 | 9                          | 0.74                     |
|            |  | Off-Highway Trucks        | 500                                       | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Rubber Tired Dozers       | 170                                       | 1                  | Diesel                 | 9                          | 0.40                     |
|            |  | Tractors/Loaders/Backhoes | 225                                       | 1                  | Diesel                 | 9                          | 0.37                     |
|            |  | Tractors/Loaders/Backhoes | 321                                       | 1                  | Diesel                 | 9                          | 0.37                     |
|            |  | Tractors/Loaders/Backhoes | 107                                       | 2                  | Diesel                 | 9                          | 0.37                     |
|            |  | Welders                   | 24  | 4                  | Diesel                 | 9                          | 0.45                     |
|            |  | 5                         | Trenching/<br>Undergrounds<br>(Trenching) | Pumps <sup>6</sup> | [11]                   | 4                          | Diesel                   |
| Excavators | 45   |                           |   | 1                  | Diesel                 | 9                          | 0.38                     |
| 6          | Equipment,<br>Structural Steel &<br>Building Erection,<br>Piping<br>(Building<br>Construction 2) | Aerial Lifts              | 84  | 1                  | Diesel                 | 9                          | 0.31                     |
|            |  | Aerial Lifts              | 67  | 2                  | Diesel                 | 9                          | 0.31                     |
|            |  | Aerial Lifts              | [46]                                      | 5                  | Electric               | 9                          | 0.31                     |
|            |  | Air Compressors           | 49  | 1                  | Diesel                 | 9                          | 0.48                     |
|            |  | Air Compressors           | 10  | 2                  | Diesel                 | 9                          | 0.48                     |
|            |  | Cranes                    | 200                                       | 1                  | Diesel                 | 9                          | 0.29                     |
|            |  | Cranes                    | 275                                       | 2                  | Diesel                 | 9                          | 0.29                     |
|            |  | Excavators                | 45  | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Forklifts                 | [82]                                      | 1                  | Electric               | 9                          | 0.20                     |
|            |  | Forklifts                 | 122                                       | 1                  | Diesel                 | 9                          | 0.20                     |
|            |  | Forklifts                 | 74  | 2                  | Diesel                 | 9                          | 0.20                     |
|            |  | Generator Sets            | 49  | 5                  | Diesel                 | 9                          | 0.74                     |
|            |  | Off-Highway Trucks        | 500                                       | 1                  | Diesel                 | 9                          | 0.38                     |
|            |  | Tractors/Loaders/Backhoes | 225                                       | 2                  | Diesel                 | 9                          | 0.37                     |
|            |  | Welders                   | 24  | 3                  | Diesel                 | 9                          | 0.45                     |
|            |  | Welders                   | [46]                                      | 5                  | Electric               | 9                          | 0.45                     |
| 7          | Electrical &<br>Instrumentation<br>(Building<br>Construction 3)                                  | Aerial Lifts              | [46]                                      | 4                  | Electric               | 9                          | 0.31                     |
|            |  | Air Compressors           | 49  | 1                  | Diesel                 | 9                          | 0.48                     |
|            |  | Air Compressors           | 10  | 2                  | Diesel                 | 9                          | 0.48                     |
|            |  | Cranes                    | 200                                       | 1                  | Diesel                 | 9                          | 0.29                     |

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| Phase Name   | Equipment Type            | HP <sup>1</sup> | No. per Day | Fuel Type <sup>2</sup> | Hours Per Day <sup>3</sup> | Load Factor <sup>4</sup> |
|--|---------------------------|-----------------|-------------|------------------------|----------------------------|--------------------------|
|  | Cranes                    | 275             | 2           | Diesel                 | 9                          | 0.29                     |
|  | Forklifts                 | [82]            | 1           | Electric               | 9                          | 0.20                     |
|  | Forklifts                 | 74              | 2           | Diesel                 | 9                          | 0.20                     |
|  | Generator Sets            | 49              | 5           | Diesel                 | 9                          | 0.74                     |
|  | Off-Highway Trucks        | 500             | 1           | Diesel                 | 9                          | 0.38                     |
|  | Tractors/Loaders/Backhoes | 225             | 2           | Diesel                 | 9                          | 0.37                     |
|  | Welders                   | [46]            | 5           | Electric               | 9                          | 0.45                     |
|  | Welders                   | 24              | 5           | Diesel                 | 9                          | 0.45                     |
| 8 Paving (Paving)  | Rollers                   | 125             | 1           | Diesel                 | 9                          | 0.38                     |
| 9 Painting/<br>Insulation<br>(Architectural<br>Coating)                      | Air Compressors           | 10              | 1           | Diesel                 | 9                          | 0.48                     |
|  | Generator Sets            | 49              | 1           | Diesel                 | 9                          | 0.74                     |
| 10 Commissioning /<br>Startup and<br>Testing<br>(Building<br>Construction 4) | Aerial Lifts              | [46]            | 4           | Electric               | 9                          | 0.31                     |
|  | Air Compressors           | 49              | 1           | Diesel                 | 9                          | 0.48                     |
|  | Cranes                    | 275             | 1           | Diesel                 | 9                          | 0.29                     |
|  | Forklifts                 | 74              | 1           | Diesel                 | 9                          | 0.20                     |
|  | Forklifts                 | [82]            | 1           | Electric               | 9                          | 0.20                     |
|  | Generator Sets            | 49              | 3           | Diesel                 | 9                          | 0.74                     |
|  | Tractors/Loaders/Backhoes | 225             | 2           | Diesel                 | 9                          | 0.37                     |
|  | Welders                   | [46]            | 2           | Electric               | 9                          | 0.45                     |
|  | Welders                   | 24              | 3           | Diesel                 | 9                          | 0.45                     |
| 12 Decommissioning<br>Demolition<br>(Demolition B)                           | Concrete/Industrial Saws  | 33              | 1           | Diesel                 | 9                          | 0.73                     |
|  | Excavators                | 45              | 1           | Diesel                 | 9                          | 0.38                     |
|  | Aerial Lifts              | [46]            | 4           | Electric               | 9                          | 0.31                     |
|  | Air Compressors           | 49              | 1           | Diesel                 | 9                          | 0.48                     |
|  | Cranes                    | 275             | 1           | Diesel                 | 9                          | 0.29                     |
|  | Forklifts                 | 74              | 1           | Diesel                 | 9                          | 0.20                     |
|  | Forklifts                 | [82]            | 1           | Electric               | 9                          | 0.20                     |
|  | Generator Sets            | 49              | 3           | Diesel                 | 9                          | 0.74                     |
|  | Tractors/Loaders/Backhoes | 225             | 2           | Diesel                 | 9                          | 0.37                     |
|  | Welders                   | [46]            | 2           | Electric               | 9                          | 0.45                     |
|  | Welders                   | 24              | 3           | Diesel                 | 9                          | 0.45                     |

Notes:

1. Engine horsepower ratings in brackets are CalEEMod default values (version 2022.1).
2. All diesel engines are assumed to be EPA Tier 4 Final and Electric engines have an average electric mix.
3. Construction is expected to occur for up to 10 hours/day, with equipment use up to 9 hours/day.
4. Engine load factors are CalEEMod default values (version 2022.1).
5. CalEEMod default value of 8 hours per day used for this equipment in Phase 3.
6. Pumps conservatively modeled as diesel units in Phase 5 rather than as electric units in Phase 4 as planned for construction.
7. No offroad equipment are expected to be used for Phase 11, Site Restoration, so this phase is not included.

Generally speaking, impacts of criteria pollutant emissions are analyzed within the local area or air basin, in this case within Ventura County. GHG emissions, on the other hand, are global impacts and are usually assessed anywhere within California for CEQA analyses. Therefore, the criteria pollutant emissions and GHG emissions from construction and demolition were estimated in two separate CalEEMod runs. In the first CalEEMod run (Attachment A.1), the criteria pollutant emissions for the hauling trips for subsurface exploration, site preparation/rough grading, foundation, and trenching phases were estimated using a one-way distance of 42 miles (the average distance from the Project site to the County line (e.g., going northeast toward Bakersfield, east toward Simi Valley, or southeast toward Westlake Village, CA). In the second CalEEMod run (Attachment A.2), the GHG emissions were estimated for the hauling trips for these phases using a distance of 296 miles (distance from the VCS site to the Arizona State line). These distances are based on a conservative estimate that some of the supplies may come from outside of Ventura County and that some of the equipment may come from outside of California. The CalEEMod default distance of 20 miles was used for the demolition phase hauling trips. Table 2-8 summarizes the construction and demolition trip rates and mileages.

**Table 2-8: Proposed Project Construction Traffic Summary**

|    | Phase Work Description                                      | Trip Type | One-Way Trips per Day | Miles per One-Way Trip | Vehicle Mix <sup>3</sup> |
|----|---|-----------|-----------------------|------------------------|--------------------------|
| 1  | Subsurface Exploration                                      | Worker    | 28                    | 10                     | LDA, LDT1, LDT2          |
|    | Subsurface Exploration                                      | Vendor    | 8                     | 10                     | HHDT, MHDT               |
|    | Subsurface Exploration <sup>1</sup>                         | Hauling   | 13                    | 42 (296)               | HHDT                     |
| 2  | Existing Project Site Demo                                  | Worker    | 22                    | 10                     | LDA, LDT1, LDT2          |
|    | Existing Project Site Demo                                  | Vendor    | 8                     | 10                     | HHDT, MHDT               |
|    | Existing Project Site Demo <sup>2</sup>                     | Hauling   | 48                    | 20                     | HHDT                     |
| 3  | Site Preparation/Rough Grading                              | Worker    | 30                    | 10                     | LDA, LDT1, LDT2          |
|    | Site Preparation/Rough Grading                              | Vendor    | 10                    | 10                     | HHDT, MHDT               |
|    | Site Preparation/Rough Grading <sup>1</sup>                 | Hauling   | 8                     | 42 (296)               | HHDT                     |
| 4  | Foundations   | Worker    | 68                    | 10                     | LDA, LDT1, LDT2          |
|    | Foundations   | Vendor    | 16                    | 10                     | HHDT, MHDT               |
|    | Foundations <sup>1</sup>                                    | Hauling   | 25                    | 42 (296)               | HHDT                     |
| 5  | Trenching/Undergrounds                                      | Worker    | 46                    | 10                     | LDA, LDT1, LDT2          |
|    | Trenching/Undergrounds                                      | Vendor    | 2                     | 10                     | HHDT, MHDT               |
|    | Trenching/Undergrounds <sup>1</sup>                         | Hauling   | 16                    | 42 (296)               | HHDT                     |
| 6  | Equipment, Structural Steel & Building Erection, and Piping | Worker    | 78                    | 10                     | LDA, LDT1, LDT2          |
|    | Equipment, Structural Steel & Building Erection, and Piping | Vendor    | 22                    | 10                     | HHDT, MHDT               |
| 7  | Electrical & Instrumentation                                | Worker    | 36                    | 10                     | LDA, LDT1, LDT2          |
|    | Electrical & Instrumentation                                | Vendor    | 16                    | 10                     | HHDT, MHDT               |
| 8  | Paving  | Worker    | 22                    | 10                     | LDA, LDT1, LDT2          |
| 9  | Painting/Insulation   | Worker    | 4                     | 10                     | LDA, LDT1, LDT2          |
| 10 | Commissioning/Startup and Testing                           | Worker    | 28                    | 10                     | LDA, LDT1, LDT2          |

| Phase Work Description |   | Trip Type | One-Way Trips per Day | Miles per One-Way Trip | Vehicle Mix <sup>3</sup> |
|------------------------|---|-----------|-----------------------|------------------------|--------------------------|
|                        | Commissioning/Startup and Testing       | Vendor    | 12                    | 10                     | HHDT, MHDT               |
| 12                     | Decommissioning Demolition              | Worker    | 28                    | 10                     | LDA, LDT1, LDT2          |
|                        | Decommissioning Demolition              | Vendor    | 18                    | 10                     | HHDT, MHDT               |
|                        | Decommissioning Demolition <sup>2</sup> | Hauling   | 3                     | 20                     | HHDT                     |

Notes:

1. Hauling trip mileages for Subsurface Exploration, Site Preparation/Rough Grading, Foundations, and Trenching phases are average one-way distances from the Project site to County Line for criteria pollutant emissions since the trip destinations/directions are not known. The second value in italics is the one-way hauling distances from the Project site to the Arizona State Line used to estimate GHG emissions.
2. Hauling trip mileages for Demolition phases (Phases 2 and 12) are CalEEMod defaults.
3. Vehicle mix: LDA=Light Duty Automobile, LDT1=Light Duty Trucks up to 3,750 lbs loaded vehicle weight (LVW), LDT2=Light Duty Trucks 3,750-8,500 lbs LVW, MHDT=Medium Heavy-Duty Trucks (8,500-14,000 lbs), HHDT=Heavy, Heavy-Duty Trucks (>14,000 lbs).
4. No offroad equipment are expected to be used for Phase 11, Site Restoration, so this phase is not included.

2.2.1.3 Results of Emissions Analysis for Project Construction and Demolition

The construction/demolition schedule and data shown in Tables 2-4 through 2-8 are preliminary/subject to change and are dependent on when the required permits are issued; the information presented above represents a reasonable construction scenario to be used for emissions estimation. As noted in Table 2-6, this analysis assumed construction would start in May 2029. Current expectation is that construction will start in July or August 2029, however, the analysis was not revised because the earlier start date is conservative.

A project's construction/demolition phases produce many types of emissions. Particulate matter (i.e., PM<sub>10</sub> and PM<sub>2.5</sub>) is emitted from the construction equipment engine exhaust and also as fugitive dust that is caused by wind and construction activities on disturbed soil. The particulate matter emitted from diesel-powered construction equipment engine exhaust will primarily be diesel particulate matter (DPM). Construction-related emissions can cause temporary increases in localized concentrations of particulate matter, as well as affect compliance with the AAQS on a regional basis. The use of diesel-powered construction equipment also emits the ozone precursors NO<sub>x</sub> and ROC. Use of architectural coatings and other materials associated with finishing buildings and equipment protection may also emit ROC and TACs. Table 2-9 presents the peak daily emissions of each criteria pollutant for each individual phase based on the CalEEMod outputs provided in Attachment A.1.

As shown in this table, the peak daily ROC emissions will occur during Phase 9, Painting/Insulation, the peak daily NO<sub>x</sub> and PM<sub>10</sub> emissions during Phase 2, Existing Site Demo, peak daily CO and SO<sub>x</sub> during Phase 4, Foundations, and peak daily PM<sub>2.5</sub> during Phase 3, Site Preparation/Rough Grading. The ROC and NO<sub>x</sub> peak daily emissions are below the 25 pounds per day significance threshold from the VCAPCD Guidelines (2003) shown in Table 2-1 for each individual phase.

**Table 2-9: Estimated Peak Daily Emissions by Each Construction/Demolition Phase**

| Construction/Demolition <sup>2</sup> Phase   | Year <sup>3</sup>                                       | Emissions <sup>1</sup> (lbs/day) |                 |             |                 |                                     |                                      |             |
|--|---|----------------------------------|-----------------|-------------|-----------------|-------------------------------------|--------------------------------------|-------------|
|  |   | ROC                              | NO <sub>x</sub> | CO          | SO <sub>x</sub> | Total <sup>4</sup> PM <sub>10</sub> | Total <sup>4</sup> PM <sub>2.5</sub> |             |
| 1  | Subsurface Exploration                                  | 2029                             | 0.76            | 6.33        | 38.0            | 0.08                                | 0.93                                 | 0.37        |
| 2  | Existing Project Site Demo                              | 2029                             | 0.59            | 9.31        | 25.7            | 0.07                                | 3.90                                 | 0.83        |
| 3  | Site Preparation/Rough Grading                          | 2029                             | 0.59            | 4.74        | 27.8            | 0.06                                | 3.27                                 | 1.58        |
| 4  | Foundations   | 2029-2030                        | 1.06            | 9.28        | 46.3            | 0.13                                | 1.77                                 | 0.61        |
| 5  | Trenching/Undergrounds                                  | 2030                             | 0.21            | 3.41        | 3.2             | 0.04                                | 1.01                                 | 0.30        |
| 6  | Equipment, Structural Steel & Building Erection, Piping | 2029-2030                        | 0.97            | 7.31        | 40.2            | 0.12                                | 0.88                                 | 0.33        |
| 7  | Electrical & Instrumentation                            | 2030-2031                        | 0.69            | 3.53        | 30.8            | 0.11                                | 0.50                                 | 0.21        |
| 8  | Paving  | 2031                             | 0.63            | 0.29        | 4.1             | 0.01                                | 0.17                                 | 0.05        |
| 9  | Painting/Insulation                                     | 2031                             | 4.95            | 0.01        | 0.1             | 0.01                                | 0.03                                 | 0.01        |
| 10   | Commissioning/Startup and Testing                       | 2031                             | 0.68            | 3.5         | 30.7            | 0.11                                | 0.50                                 | 0.21        |
| 12   | Decommissioning Demolition                              | 2032                             | 0.33            | 3.64        | 12.6            | 0.04                                | 0.58                                 | 0.17        |
| <b>Proposed Project Single Phase Maximum</b> |   |                                  | <b>4.95</b>     | <b>9.31</b> | <b>46.3</b>     | <b>0.13</b>                         | <b>3.90</b>                          | <b>1.58</b> |

Notes:

1. Emissions include offroad construction equipment and onroad vehicles (hauling, vendors, workers).
2. Construction/Demolition daily emissions calculated for maximum 9 hours per day operation for all offroad equipment running simultaneously (winter peak NO<sub>x</sub>).
3. This analysis assumed construction would start in May 2029. Current expectation is that construction will start in July or August 2029. The analysis was not revised because the earlier start date is conservative.
4. Total PM<sub>10</sub>/PM<sub>2.5</sub> consists of fugitive dust plus engine exhaust and includes application of Project BMPs.
5. No offroad equipment are expected to be used for Phase 11, Site Restoration, so this phase is not included.

The construction/demolition schedule provided in Table 2-6 indicated that some of the phases could overlap. Even though it is unlikely that the peak day for a given phase would occur on the exact same peak day for another phase, where there was potential for overlap of the phase, the peak day emissions were added together to provide the potential peak daily emissions for ROC and NO<sub>x</sub>. The results of this potential phase overlap peak daily emissions and significance evaluation is shown in Table 2-10, where only phases with potential overlap are shown. As shown in Table 2-10, the peak daily ROC emissions could occur during the overlap of Phases 8, 9, and 10, Paving + Painting/Insulation + Commissioning/Startup and Testing. The peak daily NO<sub>x</sub> emissions could occur during the overlap of Phases 4, 5, and 6, Foundations + Trenching/Undergrounds + Equipment, Structural Steel & Building Erection, Piping. These emissions were compared to the VCAPCD Guidelines significance thresholds shown in Table 2-1. Only ROC and NO<sub>x</sub> peak daily emissions are shown in Table 2-10 because the VCAPCD Guidelines (2003) do not include significance thresholds for emissions of the other criteria pollutants as described in Section 2.1.1.1. Even with the conservative assumption that the peak daily emissions for multiple phases could occur on the same day, the peak day emissions shown in Table 2-10

remain below the significance thresholds for ROC and NO<sub>x</sub> during construction/demolition of the proposed Project.

**Table 2-10: Significance Evaluation for Estimated Peak Daily ROC and NO<sub>x</sub> Emissions During Potential Construction/Demolition Phase Overlaps**

| Construction/Demolition Peak Day Emissions with Potential Phase Timeline Overlaps |  | Year      | Emissions <sup>1</sup> (lbs/day) |                 |
|---|--|-----------|----------------------------------|-----------------|
|   |  |           | ROC                              | NO <sub>x</sub> |
| 1+2   | Subsurface Exploration + Existing Project Site Demo  | 2029      | 1.4                              | 15.6            |
| 4+5+6   | Foundations + Trenching/Undergrounds + Equipment, Structural Steel & Building Erection, and Piping | 2029-2030 | 2.2                              | 20.0            |
| 6+7   | Equipment, Structural Steel & Building Erection, Piping + Electrical & Instrumentation             | 2030      | 1.7                              | 10.8            |
| 8+9+10  | Paving + Painting/Insulation + Commissioning/Startup and Testing                                   | 2031      | 6.3                              | 3.8             |
| <b>Project Construction/Demolition Overlapping Phases Maximum</b>                 |  |           | <b>6.3</b>                       | <b>20.0</b>     |
| <b>Threshold</b>  |  |           | <b>25</b>                        | <b>25</b>       |
| <b>Significant?</b>   |  |           | <b>No</b>                        | <b>No</b>       |

Notes:

1. Emissions reflect the peak daily phase emissions totals from Table 2-9 combined for the phases indicated.

CalEEMod outputs (Attachment A.1) present the emissions results as unmitigated and mitigated to allow for additional emissions controls to be selected in the model. As discussed in Section 5.3.7, Avoidance and Minimization Measures, of this PEA, the CPUC recommended measures and additional fugitive dust BMPs from the VCAPCD Guidelines will be employed to minimize fugitive dust from the Project. Because these measures are incorporated as Project BMPs, the peak day mitigated and unmitigated emissions are the same.

Furthermore, the construction equipment will either be electric or have engines that meet EPA Tier 4 Final emission standards. As shown in Table 2-10 above, emissions of NO<sub>x</sub> and ROC associated with the construction and demolition phases of the Project would be below the significance threshold of 25 pounds per day for both pollutants. The VCAPCD Guidelines do not provide significance thresholds for other criteria pollutants.

### 2.2.2 Operational Emissions Impact Analysis

The Project consists of the replacement of the three existing 1,100-HP natural gas compressors with two replacement 1,900-HP natural gas compressors and two new nominal up to 2,500-HP EDCs. The existing 68-HP diesel emergency generator will be replaced with a new 840-HP natural gas standby generator. The number of workers operating the VCS will increase from three to four due to the Project.

Stationary source project emissions were estimated on a maximum potential to emit (PTE) basis that assumes continuous operation of the two new 1,900-HP natural gas compressors

for consistency with the air permitting. The PTE for the new standby generator is based on the maximum permitted operation of 1,000 hours per year.

Baseline emissions were estimated for the three existing 1,100-HP natural gas compressors and emergency generator using their 2021 and 2022 fuel usage.

Emissions of criteria pollutants from the small number of vehicles to be used by VCS employees during operations were estimated using EMFAC2021 version 1.0.2 (CARB 2022) and AP-42 fugitive dust emissions estimation techniques for paved roads (EPA 2011). The proposed Project operational vehicle miles traveled (VMT) analysis assumes four employees commuting daily in separate light-duty vehicles for a one-way distance of 32 miles within Ventura County. Baseline vehicle use assumed three worker vehicles. The emissions calculations for the operational worker vehicles are provided in Attachment B.

Table 2-11 shows the baseline emissions, which are the average of the last 2 years of actual emissions (from 2021 and 2022) for the three existing natural gas compressors and emergency generator, as well as emissions from three worker vehicles. Table 2-12 shows the proposed Project annual emissions based on the PTE of the replacement units (two new natural gas compressors and one new standby generator) plus four worker vehicles (one more than in the baseline). The Project net emissions increase (NEI) during operation was calculated based on the difference between the PTE for the new engines and the historical actual emissions (HAE) for the existing engines as presented in Table 2-13. Additional details on these emission calculations are provided in Attachment B.

**Table 2-11: Baseline Criteria Pollutant Emissions During 2021-2022 (tons/year)**

| Pollutant                           | Natural Gas Compressor Engines | Emergency Generator | Worker Vehicles | Total Baseline Emissions |
|-------------------------------------|--------------------------------|---------------------|-----------------|--------------------------|
| ROC                                 | 0.47                           | 0.0002              | 0.0025          | 0.48                     |
| NO <sub>x</sub>                     | 2.88                           | 0.004               | 0.002           | 2.89                     |
| PM <sub>10</sub> /PM <sub>2.5</sub> | 0.44                           | 0.0004              | 0.008           | 0.45                     |
| CO                                  | 0.60                           | 0.005               | 0.036           | 0.64                     |
| SO <sub>x</sub>                     | 0.03                           | 0.00001             | 0.0001          | 0.03                     |

**Table 2-12: Proposed Project Criteria Pollutant Potential to Emit (tons/year)**

| Pollutant                           | Natural Gas Compressor Engines | Standby Generator | Worker Vehicles | Total Project Potential Emissions |
|-------------------------------------|--------------------------------|-------------------|-----------------|-----------------------------------|
| ROC                                 | 5.50                           | 0.14              | 0.0033          | 5.64                              |
| NO <sub>x</sub>                     | 5.50                           | 0.14              | 0.003           | 5.64                              |
| PM <sub>10</sub> /PM <sub>2.5</sub> | 1.24                           | 0.04              | 0.016           | 1.29                              |
| CO                                  | 22.00                          | 0.56              | 0.048           | 22.56                             |
| SO <sub>x</sub>                     | 0.08                           | 0.002             | 0.0002          | 0.08                              |

**Table 2-13: Proposed Project Criteria Pollutant Net Emissions (tons/year)**

| Pollutant                           | Total Project Potential Emissions | Total Baseline Actual Emissions | Net Project Emissions (PTE – Baseline) |
|-------------------------------------|-----------------------------------|---------------------------------|--|
| ROC                                 | 5.64                              | 0.48                            | 5.16                                   |
| NO <sub>x</sub>                     | 5.64                              | 2.89                            | 2.75                                   |
| PM <sub>10</sub> /PM <sub>2.5</sub> | 1.29                              | 0.45                            | 0.84                                   |
| CO                                  | 22.60                             | 0.64                            | 21.95                                  |
| SO <sub>x</sub>                     | 0.08                              | 0.03                            | 0.06                                   |

As noted in Section 2.1.1, the VCAPCD Guidelines require that only unpermitted source emissions associated with the operational Project be compared to the significance thresholds. In addition to the four worker vehicles (annual emissions are shown in Table 2-12), PEA Section 3.2.2.1, Proposed Site Improvements, lists several storage tanks that would be installed including 1 engine oil, 1 waste oil, and 3 oily waste storage tanks. These storage tanks (or drums, see PEA Table 3-1, Dimensions of Structures) are considered ancillary equipment and would not be required to obtain a permit from VCAPCD. Used oil has a very low vapor pressure and tank throughput would be low; hence, ROC emissions from these tanks would be negligible. When the emissions are compared to the significance thresholds in Table 2-14, the operational emissions are less than significant.

**Table 2-14: Maximum Daily Operational Non-Permitted Sources Emissions Summary and Evaluation**

| Emission Source                              | NO <sub>x</sub> (lbs/day) | ROC (lbs/day) |
|--|---------------------------|---------------|
| Non-stationary source emissions <sup>1</sup> | negligible                | negligible    |
| Non-stationary source threshold <sup>2</sup> | 25                        | 25            |
| Significant?                                 | No                        | No            |

Notes:

1. Unpermitted sources include worker vehicles (see Table 2-12) and ancillary storage tanks, i.e., engine oil, oil waste, and oily waste storage drums, which would have very low emissions of ROC.
2. VCAPCD Guidelines (2003).

Per the VCAPCD and OPR CEQA Guidelines, a project is significant if it results in a cumulatively considerable net increase of any criteria pollutant for which the project region is nonattainment of an applicable NAAQS or CAAQS.

VCAPCD is designated attainment for CO, SO<sub>x</sub> and PM<sub>2.5</sub> but is nonattainment of the CAAQS for PM<sub>10</sub>. Based on the VCAPCD Guidelines, since Ventura County is nonattainment for PM<sub>10</sub>, an AQIA was conducted to assess the significance of the Project PM<sub>10</sub> emissions, as described in the next section.

### 2.3 Proposed Project Air Quality Impact Analyses

In addition to the emissions analyses, the VCAPCD Guidelines indicate that an AQIA should be performed to ensure that there are no localized impacts that would cause or contribute to an exceedance of a State or national AAQS for nonattainment pollutants. Emissions which cause or contribute to an exceedance of an applicable standard would be considered to have a significant impact.

Per the VCAPCD Guidelines, and as described in the previous sections, an AQIA was prepared to demonstrate the significance of the Project PM<sub>10</sub> operational emissions.

### 2.3.1 Ambient Air Quality Impacts from Project Operation

The purpose of the AQIA is to evaluate whether criteria pollutant emissions resulting from the proposed Project will cause or contribute significantly to an exceedance of the NAAQS or CAAQS. The United States Environmental Protection Agency’s (EPA’s) guideline American Meteorological Society/EPA Regulatory Model (AERMOD) was used to simulate the atmospheric transport and dispersion of airborne pollutants and to quantify the maximum expected ground level concentrations (GLCs) from Project emissions.

The modeling of PM<sub>10</sub> emissions during operations analyzed the 24-hour and annual concentrations from the PTE of the new natural gas compressors and standby generator. The modeling input parameters and results are provided in Attachment C.

The modeling results for PM<sub>10</sub> are summarized in Table 2-15. Since the background PM<sub>10</sub> concentrations are greater than the CAAQS, the modeled concentrations were compared to the SILs as described above. The PM<sub>10</sub> concentrations predicted by the model from onsite emissions sources are less than these significance levels. Therefore, the proposed Project will have a less than significant adverse impact to air quality based on modeling.

**Table 2-15: Proposed Project PM<sub>10</sub> AQIA Results**

| Pollutant        | Averaging Time | Modeled Concentration (µg/m <sup>3</sup> ) | Significant Impact Level <sup>1</sup> (µg/m <sup>3</sup> ) | Exceed SIL? |
|------------------|----------------|--|--|-------------|
| PM <sub>10</sub> | 24-Hour        | 3.92                                       | 5.0  | No          |
|                  | Annual         | 0.37                                       | 1.0  | No          |

Note:

1. SJVAPCD Policy APR 1925 (2014)

## 2.4 Proposed Project Health Risk Assessment

Both a construction HRA and operations HRA were conducted. The construction and operations HRAs were conducted in accordance with VCAPCD guidance following the California Office of Environmental Health Hazard Assessment (OEHHA) Air Toxics Hot Spots Program Guidance Manual (2015). The HRAs used refined air dispersion analyses and health risk modeling.

AERMOD was used to estimate the GLCs. The Hotspots Analysis and Reporting Program, Version 2 (HARP2) software was used to perform the calculations for this step for comparison to the current VCAPCD risk threshold values.

For the HRAs, AERMOD was run with all sources emitting unit emissions [1 gram per second (g/s)] to obtain the X/Q (i.e., the relative concentration given as the effluent concentration divided by the source strength at a given distance and direction from the source) values that are necessary for input into HARP2. The health risk calculations were performed using the HARP2 Air Dispersion Modeling and Risk Tool (ADMRT). The X/Q values that were determined for each source using AERMOD were imported into HARP2 and used in conjunction with hourly and annual emissions to determine the GLCs for each pollutant. The GLCs were then used to estimate the long-term cancer health risk to an individual and non-cancer chronic and acute health indices.

The Maximally Exposed Individual Resident (MEIR), Maximally Exposed Individual Worker (MEIW), and maximum impact at a sensitive receptor were calculated for cancer risk and non-cancer chronic and acute health indices.

### 2.4.1 Health Risk Assessment for Project Construction

The purpose of the construction HRA is to evaluate the potential health risks associated with the Project-related construction emissions. During construction and demolition, the use of diesel-fueled equipment will emit DPM. DPM emissions are derived from the CalEEMod runs in Attachment A.1, where DPM is conservatively assumed to be 100% of the exhaust PM<sub>10</sub> emissions.

Since the construction and demolition activities will last approximately 3 years, cancer risk was estimated for a 3-year period using the average annual DPM emissions over the entire construction and demolition period for both residential and off-site workers.

The construction HRA input parameters and results are provided in Attachment D. The construction HRA results are summarized in Table 2-16. The results show that, for all receptor types and locations, the predicted health risks are less than the VCAPCD cancer significance threshold and well below the non-cancer thresholds. The cancer risk at the MEIR occurs at a residence bordering the VCS’s northeastern fenceline.

The HRA demonstrates that health risks related to construction and demolition activities for the proposed Project are less than significant.

**Table 2-16: Construction/Demolition Health Risk Assessment Results**

| Health Risk                | MEIR  | Maximum Sensitive Receptor | MEIW  | VCAPCD Guidelines Threshold | Significant? |
|----------------------------|-------|----------------------------|-------|-----------------------------|--------------|
| Cancer Risk (Per Million)  | 2.30  | 1.49                       | 0.31  | 10                          | No           |
| Chronic Hazard Index (HIC) | 0.001 | 0.001                      | 0.002 | 1                           | No           |

Note:

1. Because DPM does not have an acute risk, an Acute Hazard Index (HIA) was not modeled for construction.

### 2.4.2 Health Risk Assessment for Project Operation

The operations HRA modeling conservatively analyzed the total post-Project TAC emissions based on the proposed Project’s PTE from the new natural gas compressors and standby generator, rather than the delta between pre-Project and post-Project TAC emissions. Additional information on the TAC emission calculations is provided in Attachment B, and the input parameters and detailed results for the operational HRA are provided in Attachment E for each health risk and at each receptor type, broken down by pollutant and source. The results of the HRA for the proposed Project operational TAC emissions are summarized in Table 2-17.

The results show that, for all receptor types and locations, the predicted health risks are less than the VCAPCD cancer significance threshold and well below the non-cancer thresholds. For cancer risk, the MEIR occurs past the southern end of the facility.

The results show that the predicted health risks are below the VCAPCD health risk thresholds; thus, impacts from the Project TAC emissions during VCS operation are less than significant.

**Table 2-17: Operation Health Risk Assessment Results**

| Health Risk                  | MEIR  | Maximum Sensitive Receptor | MEIW                           | VCAPCD Guidelines Threshold | Significant? |
|------------------------------|-------|----------------------------|--------------------------------|-----------------------------|--------------|
| Cancer Risk (In One Million) | 2.81  | 0.54                       | 1.25                           | 10                          | No           |
| Chronic Hazard Index (HIC)   | 0.009 | 0.002                      | 0.01 (annual)<br>0.05 (8-hour) | 1                           | No           |
| Acute Hazard Index (HIA)     | 0.03  | 0.03                       | 0.02                           | 1                           | No           |

### 3.0 GREENHOUSE GAS EMISSIONS

#### 3.1 GHG Emissions Significance Criteria

The VCAPCD has not adopted a mass emissions threshold for GHGs. Other air districts such as the SCAQMD use a threshold of 10,000 metric tons (MT) of carbon dioxide equivalents (CO<sub>2e</sub>) per year as the significance criteria for industrial facilities (SCAQMD 2023). This significance threshold is proposed for this Project.

#### 3.2 GHG Emissions Analysis for the Proposed Project

GHG emissions are estimated for both construction/demolition and operations for the proposed Project. Construction GHG emissions are typically amortized over the life of the project (typically 30 years) and added to the annual operational GHG emissions for evaluation against the significance threshold to determine significance. Additional details on the emissions calculations are provided in Attachment F.

##### 3.2.1 GHG Emissions from Project Construction/Demolition

During construction, GHGs – primarily carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>), and nitrous oxide (N<sub>2</sub>O), collectively reported as CO<sub>2e</sub> – are directly emitted from mobile sources such as onroad vehicles and offroad construction equipment. Direct onsite and off-site GHG emissions were estimated for proposed Project construction activities using CalEEMod. CalEEMod also includes a calculation of GHG emissions related to refrigerants and ozone-depleting substances (R/ODS).

Table 3-1 shows a breakdown of proposed Project construction GHG emissions over the roughly 25-month main construction period (2029-2031) and 3-month demolition period (2032). The CalEEMod output file for GHG emissions can be found in Attachment A.2. Table 3-1 also aggregates the CO<sub>2e</sub> emissions for all construction/demolition and determines the 30-year amortization amount for the operational GHG netting analysis. The maximum annual GHG emissions from construction are 2,731 MT in 2030. Together, construction and demolition emissions amortized over 30 years are 198 MT CO<sub>2e</sub> per year.

**Table 3-1: Construction and Demolition GHG Emissions by Year<sup>1</sup> (2029-2032)**

| GHGs                   | 2029<br>(MT) | 2030<br>(MT) | 2031<br>(MT) | 2032<br>(MT) | Total<br>(MT) | 30-Year<br>(MT/yr) |
|------------------------|--------------|--------------|--------------|--------------|---------------|--------------------|
| CO <sub>2</sub>        | 2,549        | 2,677        | 580          | 4            | –             | –                  |
| CH <sub>4</sub>        | 0.06         | 0.08         | 0.02         | 0.00         | –             | –                  |
| N <sub>2</sub> O       | 0.25         | 0.17         | 0.01         | 0.00         | –             | –                  |
| R/ODS                  | 1.25         | 0.84         | 0.04         | 0.00         | –             | –                  |
| <b>CO<sub>2e</sub></b> | <b>2,625</b> | <b>2,731</b> | <b>583</b>   | <b>4</b>     | <b>5,943</b>  | <b>198</b>         |

Notes:

1. This analysis assumed construction would start in May 2029. Current expectation is that construction will start in July or August 2029. The analysis was not revised because the earlier start date is conservative.

##### 3.2.2 GHG Emissions from Project Operation

The baseline GHG emissions for the proposed Project are shown in Table 3-2. The baseline is based on fuel use by the existing equipment to be replaced (three natural gas compressors

and an emergency generator), plus up to three operations workers commuting, and indirect GHG emissions from facility-wide electric power usage. Baseline emissions were estimated for the three existing 1,100-HP engine compressors and emergency generator using the average of their 2021 and 2022 fuel usage. Baseline facility-wide electricity usage was based on the average of 2021 and 2022 electricity purchased for the VCS site.

Emissions of GHGs from the limited number of onroad vehicles to be used by VCS employees during operations were estimated using EMFAC2021 version 1.0.2 (CARB 2022). Because EMFAC2021 outputs the GHGs as CO<sub>2</sub>, CH<sub>4</sub>, and N<sub>2</sub>O, the Intergovernmental Panel on Climate Change (IPCC) global warming potentials (GWPs) were used to determine CO<sub>2</sub>e from these mobile sources (CARB 2016). The operational baseline VMT analysis assumes three workers commuting daily in separate light-duty vehicles for a one-way distance of 32 miles within Ventura County, which is an average distance to communities within the County. Project worker vehicle emissions are based on four workers commuting, a net increase of one worker.

**Table 3-2: VCS Baseline GHG Emissions (MT/year)**

| GHGs                   | Existing (3) Natural Gas Compressors | Existing Emergency Generator | Worker Vehicles | Indirect Electric Power | Total Baseline Emissions <sup>1</sup> |
|------------------------|--------------------------------------|------------------------------|-----------------|-------------------------|---------------------------------------|
| CO <sub>2</sub>        | 4,845                                | 0.6                          | 50.5            | 92.0                    | 4,988                                 |
| CH <sub>4</sub>        | 0.09                                 | 0.00003                      | 0.0004          | 0.012                   | 0.103                                 |
| N <sub>2</sub> O       | 0.01                                 | 0.00001                      | 0.0008          | 0.001                   | 0.011                                 |
| <b>CO<sub>2</sub>e</b> | <b>4,850</b>                         | <b>1</b>                     | <b>51</b>       | <b>93</b>               | <b>4,994</b>                          |

Note:

1. Baseline emissions based on HAE for 2021-2022 for natural gas compressors and standby generator, three operations workers, and electricity purchased during these years.

The projected emissions of GHGs from the replacement combustion units (two new natural gas compressors and new standby generator) are provided in Table 3-3, along with worker commuting and indirect GHG emissions for the EDCs and other electric power usage. Stationary source GHG emissions for the proposed Project were estimated based on the projected annual usage of the two new 1,900-HP engine compressors, the new standby generator, one additional operations worker, and the electrical usage for the new EDCs.

As noted in Section 3.1, Project Overview (footnote 1), of this PEA, as a result of not having electric compressors selected at this time, SoCalGas has assumed that the two EDCs will each be 2,500 HP in the PEA for the purpose of environmental review. Upon completion of engineering related to the EDCs, the horsepower utilized may be lower than, but will not be higher than the 2,500 HP reviewed in this PEA. However, as discussed in Section 5.6, Energy, it was decided to analyze two scenarios for energy impacts, where Case 1 is based on two 2,500 HP EDCs and Case 2 is based on two 2,000 HP EDCs, both cases along with the two 1,900 HP natural gas compressors. These cases represent the projected maximum electricity use and maximum natural gas use, respectively.

The GHG emissions for both cases were estimated for the Project operations and are shown in Table 3-3. Both Cases 1 and 2 show a decrease in natural gas usage and an increase in electricity usage as compared to the baseline.

GHG emissions can occur from venting of natural gas to the blowdown stack during maintenance activities. These activities occur infrequently and typically consist of venting the residual amount of gas in a length of pipe from the equipment that is being serviced and the blowdown stack has a discharge scrubber. The Project will implement a vapor capture and recovery system that will prevent 85-100% of the natural gas from being released to the atmosphere during venting. Thus, the Project is expected to result in a reduction in GHG emissions associated with venting compared to the existing facility.

To meet the CARB Oil and Gas Regulation, the VCS has implemented a leak detection and reporting (LDAR) system to minimize natural gas leaks from the equipment components, such as flanges, valves, seals, etc., which lead to CH<sub>4</sub> emissions. The combination of the LDAR system and newer technologies for the equipment components will ensure that Project GHG emissions are similar or reduced from baseline conditions.

**Table 3-3: Projected Annual Project GHG Emissions (MT/year)**

| GHGs                   | New (2) Natural Gas Compressors <sup>1,2</sup> |              | New Standby Generator | Worker Vehicles <sup>3</sup> | Indirect Electric Power <sup>4,2</sup> |              | Total Project Emissions <sup>2</sup> |              |
|------------------------|--|--------------|-----------------------|------------------------------|--|--------------|--------------------------------------|--------------|
|                        | Case 1   | Case 2       |                       |                              | Case 1                                 | Case 2       | Case 1                               | Case 2       |
| CO <sub>2</sub>        | 1,723.0  | 3071.1       | 79.3                  | 67.4                         | 2526.3                                 | 2208.7       | 4346.2                               | 5376.8       |
| CH <sub>4</sub>        | 0.0325   | 0.0579       | 0.0015                | 0.0006                       | 0.32                                   | 0.28         | 0.35                                 | 0.34         |
| N <sub>2</sub> O       | 0.0032   | 0.0058       | 0.0001                | 0.0011                       | 0.04                                   | 0.03         | 0.04                                 | 0.04         |
| <b>CO<sub>2</sub>e</b> | <b>1,725</b>                                   | <b>3,074</b> | <b>79</b>             | <b>68</b>                    | <b>2,546</b>                           | <b>2,226</b> | <b>4,368</b>                         | <b>5,397</b> |

Notes:

1. GHG emissions are based on a conservative projected usage of the natural gas compressors based on historic flow rates and accounting for a drop in the local production rate. It is assumed that the trend of the monthly demand for the new plant will continue to remain the same as the existing plant (lower demand in winter and higher demand in summer).
2. Case 1 is two 2,500 HP EDCs, which would have slightly lower natural gas use and higher electricity use. Case 2 is two 2,000 HP EDCs, which would have slightly higher natural gas use and lower electricity use.
3. Worker vehicle emissions based on 4 workers (1 more than the baseline) commuting from within Ventura County in separate vehicles (32 miles each one-way trip).
4. Indirect emissions based on electric power for projected use of new EDCs as well as station utilities and auxiliaries. The analysis is based on the EDCs turned on first and turned off last from an operational standpoint.

As shown in Table 3-3, Case 1 would have slightly lower natural gas use and higher electricity use than Case 2 since it includes the two larger 2,500 HP EDCs. Case 2 would have slightly higher natural gas use and lower electricity use than Case 1 since it includes two smaller 2,000 HP EDCs. Because GHG emissions are higher from natural gas use than from indirect electricity use, Case 2 would have slightly higher GHG emissions.

**3.2.3 Determination of GHG Emissions Significance**

Table 3-4 provides a comparison of the aggregated net GHG emissions for the proposed Project to the significance threshold. The net GHG emissions reflect the direct and indirect GHG emissions from the proposed Project (Table 3-3) plus the amortized GHG construction emissions (Table 3-1) minus the baseline GHG emissions (Table 3-2).

As shown in Table 3-4 the aggregated GHG net emissions show a small decrease in GHG emissions associated with the Case 1 Project and a small increase for the Case 2 Project

compared to the baseline. This result shows that the projected future operation of the Project will be similar to the operation of the VCS in the future. Further, the slightly larger EDC assumed in Case 1 will lead to a reduction in GHG emissions. In both cases, the net emissions decrease or increase is below the CO<sub>2</sub>e significance threshold of 10,000 MT per year, and thus, the proposed Project will have a less than significant impact.

Additional details on these emission calculations are provided in Attachment F.

**Table 3-4: Proposed Project GHG Significance Evaluation**

| Item  | Annual CO <sub>2</sub> e Net Emissions (MT/year) |               |
|---|--|---------------|
|   | Case 1   | Case 2        |
| Total Direct Project Net Emissions (Project-Baseline)   | (3,042)  | (1,693)       |
| Total Indirect Project Net Emissions (Project-Baseline) | 2,453  | 2,133         |
| Amortized Construction Emissions (30 years)             | 198  | 198           |
| Total Operation Net Emissions + Construction            | <b>(391)</b>                                     | <b>639</b>    |
| <b>Significance Threshold</b>                           | <b>10,000</b>                                    | <b>10,000</b> |
| <b>Total Project Net Emissions Significant?</b>         | <b>No</b>  | <b>No</b>     |
| <b>Mitigation Required</b>                              | <b>None</b>                                      | <b>None</b>   |

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## ATTACHMENT A – CALEEMOD OUTPUTS

# SCG-VCM Project Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                   |
|-----------------------------|---|
| Project Name                | SCG-VCM Project                         |
| Lead Agency                 | —                                       |
| Land Use Scale              | Project/site                            |
| Analysis Level for Defaults | County                                  |
| Windspeed (m/s)             | 3.20                                    |
| Precipitation (days)        | 2.20                                    |
| Location                    | 1555 N Olive St, Ventura, CA 93001, USA |
| County                      | Ventura                                 |
| City                        | Ventura                                 |
| Air District                | Ventura County APCD                     |
| Air Basin                   | South Central Coast                     |
| TAZ                         | 3406                                    |
| EDFZ                        | 8                                       |
| Electric Utility            | Southern California Edison              |
| Gas Utility                 | Southern California Gas                 |

## 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 | 5.46 | 1000sqft | 0.13        | 5,459                 | 0.00                   | —                              | —          | —           |
| General Heavy Industry | 10.5 | 1000sqft | 0.24        | 10,458                | 0.00                   | —                              | —          | —           |

|                         |      |          |      |       |      |   |   |   |
|-------------------------|------|----------|------|-------|------|---|---|---|
| General Heavy Industry  | 2.02 | 1000sqft | 0.05 | 2,016 | 0.00 | — | — | — |
| General Heavy Industry  | 0.44 | 1000sqft | 0.01 | 442   | 0.00 | — | — | — |
| General Office Building | 4.64 | 1000sqft | 0.11 | 4,641 | 0.00 | — | — | — |
| Other Asphalt Surfaces  | 344  | 1000sqft | 7.89 | 0.00  | 0.00 | — | — | — |

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

| Sector       | #      | Measure Title                          |
|--------------|--------|--|
| Construction | C-2*   | Limit Heavy-Duty Diesel Vehicle Idling |
| Construction | C-10-C | Water Unpaved Construction Roads       |
| Construction | C-11   | Limit Vehicle Speeds on Unpaved Roads  |
| Construction | C-12   | Sweep Paved Roads                      |

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 5.90 | 15.6 | 70.9 | 0.21 | 0.28  | 4.53  | 4.81  | 0.28   | 1.47   | 1.58   | —    | 21,404 | 21,404 | 0.83 | 0.91 | 10.4 | 21,530 |
| Mit.                | 5.90 | 15.6 | 70.9 | 0.21 | 0.28  | 4.53  | 4.81  | 0.28   | 1.47   | 1.58   | —    | 21,404 | 21,404 | 0.83 | 0.91 | 10.4 | 21,530 |
| % Reduced           | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.17 | 19.7 | 89.2 | 0.26 | 0.38 | 3.26 | 3.63 | 0.38 | 0.85 | 1.22 | — | 28,721 | 28,721 | 1.00 | 1.19 | 0.37 | 29,101 |
| Mit.                | 2.17 | 19.7 | 89.2 | 0.26 | 0.38 | 3.26 | 3.63 | 0.38 | 0.85 | 1.22 | — | 28,721 | 28,721 | 1.00 | 1.19 | 0.37 | 29,101 |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Average Daily (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.85 | 6.29 | 36.3 | 0.11 | 0.14 | 0.95 | 1.06 | 0.14 | 0.27 | 0.38 | — | 11,391 | 11,391 | 0.42 | 0.31 | 1.63 | 11,490 |
| Mit.                | 0.85 | 6.29 | 36.3 | 0.11 | 0.14 | 0.95 | 1.06 | 0.14 | 0.27 | 0.38 | — | 11,391 | 11,391 | 0.42 | 0.31 | 1.63 | 11,490 |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Annual (Max)        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.16 | 1.15 | 6.63 | 0.02 | 0.03 | 0.17 | 0.19 | 0.03 | 0.05 | 0.07 | — | 1,886  | 1,886  | 0.07 | 0.05 | 0.27 | 1,902  |
| Mit.                | 0.16 | 1.15 | 6.63 | 0.02 | 0.03 | 0.17 | 0.19 | 0.03 | 0.05 | 0.07 | — | 1,886  | 1,886  | 0.07 | 0.05 | 0.27 | 1,902  |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |

## 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|----------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|---------|---------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| 2029                 | 1.35 | 15.6 | 63.7 | 0.14 | 0.28  | 4.53  | 4.81  | 0.28   | 1.47   | 1.58   | —    | 16,521 | 16,521 | 0.55    | 0.91    | 10.4 | 16,817 |
| 2030                 | 1.65 | 10.7 | 70.9 | 0.21 | 0.26  | 1.69  | 1.86  | 0.26   | 0.43   | 0.61   | —    | 21,404 | 21,404 | 0.83    | 0.53    | 6.78 | 21,530 |
| 2031                 | 5.90 | 3.47 | 30.7 | 0.10 | 0.12  | 0.48  | 0.54  | 0.12   | 0.12   | 0.21   | —    | 10,006 | 10,006 | 0.39    | 0.14    | 1.33 | 10,058 |
| 2032                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 2.82   | 2.82   | < 0.005 | < 0.005 | —    | 2.83   |

|                      |      |      |      |         |         |      |      |         |         |      |   |        |        |         |         |      |        |
|----------------------|------|------|------|---------|---------|------|------|---------|---------|------|---|--------|--------|---------|---------|------|--------|
| Daily - Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 2.01 | 16.6 | 86.4 | 0.24    | 0.34    | 2.30 | 2.64 | 0.34    | 0.60    | 0.94 | — | 25,925 | 25,925 | 0.93    | 0.88    | 0.28 | 26,213 |
| 2030                 | 2.17 | 19.7 | 89.2 | 0.26    | 0.38    | 3.26 | 3.63 | 0.38    | 0.85    | 1.22 | — | 28,721 | 28,721 | 1.00    | 1.19    | 0.37 | 29,101 |
| 2031                 | 0.68 | 3.50 | 30.7 | 0.10    | 0.12    | 0.39 | 0.51 | 0.12    | 0.10    | 0.21 | — | 9,996  | 9,996  | 0.39    | 0.15    | 0.03 | 10,050 |
| 2032                 | 0.32 | 3.88 | 12.6 | 0.04    | 0.05    | 0.60 | 0.65 | 0.05    | 0.13    | 0.18 | — | 3,951  | 3,951  | 0.14    | 0.13    | 0.03 | 3,994  |
| Average Daily        | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.62 | 5.39 | 27.8 | 0.07    | 0.11    | 0.95 | 1.06 | 0.11    | 0.27    | 0.38 | — | 8,021  | 8,021  | 0.28    | 0.31    | 1.63 | 8,123  |
| 2030                 | 0.85 | 6.29 | 36.3 | 0.11    | 0.14    | 0.84 | 0.98 | 0.14    | 0.21    | 0.36 | — | 11,391 | 11,391 | 0.42    | 0.29    | 1.44 | 11,490 |
| 2031                 | 0.85 | 1.18 | 10.2 | 0.04    | 0.04    | 0.18 | 0.22 | 0.04    | 0.04    | 0.08 | — | 3,501  | 3,501  | 0.14    | 0.06    | 0.24 | 3,522  |
| 2032                 | 0.06 | 0.69 | 2.25 | 0.01    | 0.01    | 0.11 | 0.12 | 0.01    | 0.02    | 0.03 | — | 704    | 704    | 0.03    | 0.02    | 0.10 | 711    |
| Annual               | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.11 | 0.98 | 5.08 | 0.01    | 0.02    | 0.17 | 0.19 | 0.02    | 0.05    | 0.07 | — | 1,328  | 1,328  | 0.05    | 0.05    | 0.27 | 1,345  |
| 2030                 | 0.16 | 1.15 | 6.63 | 0.02    | 0.03    | 0.15 | 0.18 | 0.03    | 0.04    | 0.06 | — | 1,886  | 1,886  | 0.07    | 0.05    | 0.24 | 1,902  |
| 2031                 | 0.15 | 0.22 | 1.86 | 0.01    | 0.01    | 0.03 | 0.04 | 0.01    | 0.01    | 0.02 | — | 580    | 580    | 0.02    | 0.01    | 0.04 | 583    |
| 2032                 | 0.01 | 0.13 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 117    | 117    | < 0.005 | < 0.005 | 0.02 | 118    |

### 2.3. Construction Emissions by Year, Mitigated

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

| Year                 | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|----------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|---------|---------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| 2029                 | 1.35 | 15.6 | 63.7 | 0.14 | 0.28  | 4.53  | 4.81  | 0.28   | 1.47   | 1.58   | —    | 16,521 | 16,521 | 0.55    | 0.91    | 10.4 | 16,817 |
| 2030                 | 1.65 | 10.7 | 70.9 | 0.21 | 0.26  | 1.69  | 1.86  | 0.26   | 0.43   | 0.61   | —    | 21,404 | 21,404 | 0.83    | 0.53    | 6.78 | 21,530 |
| 2031                 | 5.90 | 3.47 | 30.7 | 0.10 | 0.12  | 0.48  | 0.54  | 0.12   | 0.12   | 0.21   | —    | 10,006 | 10,006 | 0.39    | 0.14    | 1.33 | 10,058 |
| 2032                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 2.82   | 2.82   | < 0.005 | < 0.005 | —    | 2.83   |

|                      |      |      |      |         |         |      |      |         |         |      |   |        |        |         |         |      |        |
|----------------------|------|------|------|---------|---------|------|------|---------|---------|------|---|--------|--------|---------|---------|------|--------|
| Daily - Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 2.01 | 16.6 | 86.4 | 0.24    | 0.34    | 2.30 | 2.64 | 0.34    | 0.60    | 0.94 | — | 25,925 | 25,925 | 0.93    | 0.88    | 0.28 | 26,213 |
| 2030                 | 2.17 | 19.7 | 89.2 | 0.26    | 0.38    | 3.26 | 3.63 | 0.38    | 0.85    | 1.22 | — | 28,721 | 28,721 | 1.00    | 1.19    | 0.37 | 29,101 |
| 2031                 | 0.68 | 3.50 | 30.7 | 0.10    | 0.12    | 0.39 | 0.51 | 0.12    | 0.10    | 0.21 | — | 9,996  | 9,996  | 0.39    | 0.15    | 0.03 | 10,050 |
| 2032                 | 0.32 | 3.88 | 12.6 | 0.04    | 0.05    | 0.60 | 0.65 | 0.05    | 0.13    | 0.18 | — | 3,951  | 3,951  | 0.14    | 0.13    | 0.03 | 3,994  |
| Average Daily        | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.62 | 5.39 | 27.8 | 0.07    | 0.11    | 0.95 | 1.06 | 0.11    | 0.27    | 0.38 | — | 8,021  | 8,021  | 0.28    | 0.31    | 1.63 | 8,123  |
| 2030                 | 0.85 | 6.29 | 36.3 | 0.11    | 0.14    | 0.84 | 0.98 | 0.14    | 0.21    | 0.36 | — | 11,391 | 11,391 | 0.42    | 0.29    | 1.44 | 11,490 |
| 2031                 | 0.85 | 1.18 | 10.2 | 0.04    | 0.04    | 0.18 | 0.22 | 0.04    | 0.04    | 0.08 | — | 3,501  | 3,501  | 0.14    | 0.06    | 0.24 | 3,522  |
| 2032                 | 0.06 | 0.69 | 2.25 | 0.01    | 0.01    | 0.11 | 0.12 | 0.01    | 0.02    | 0.03 | — | 704    | 704    | 0.03    | 0.02    | 0.10 | 711    |
| Annual               | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.11 | 0.98 | 5.08 | 0.01    | 0.02    | 0.17 | 0.19 | 0.02    | 0.05    | 0.07 | — | 1,328  | 1,328  | 0.05    | 0.05    | 0.27 | 1,345  |
| 2030                 | 0.16 | 1.15 | 6.63 | 0.02    | 0.03    | 0.15 | 0.18 | 0.03    | 0.04    | 0.06 | — | 1,886  | 1,886  | 0.07    | 0.05    | 0.24 | 1,902  |
| 2031                 | 0.15 | 0.22 | 1.86 | 0.01    | 0.01    | 0.03 | 0.04 | 0.01    | 0.01    | 0.02 | — | 580    | 580    | 0.02    | 0.01    | 0.04 | 583    |
| 2032                 | 0.01 | 0.13 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 117    | 117    | < 0.005 | < 0.005 | 0.02 | 118    |

### 3. Construction Emissions Details

#### 3.1. Demolition (2029) - Unmitigated

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

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

|                     |         |      |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.46    | 5.35 | 24.0 | 0.04    | 0.08    | —    | 0.08    | 0.08    | —       | 0.08    | — | 4,394 | 4,394 | 0.18    | 0.04    | —    | 4,409 |
| Demolition          | —       | —    | —    | —       | —       | 2.69 | 2.69    | —       | 0.41    | 0.41    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01    | 0.16 | 0.72 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 132   | 132   | 0.01    | < 0.005 | —    | 133   |
| Demolition          | —       | —    | —    | —       | —       | 0.08 | 0.08    | —       | 0.01    | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | < 0.005 | 0.03 | 0.13 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 21.9  | 21.9  | < 0.005 | < 0.005 | —    | 22.0  |
| Demolition          | —       | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.07    | 0.04 | 0.64 | 0.00    | 0.00    | 0.16 | 0.16    | 0.00    | 0.04    | 0.04    | — | 149   | 149   | < 0.005 | 0.01    | 0.43 | 152   |
| Vendor              | 0.01    | 0.25 | 0.08 | < 0.005 | < 0.005 | 0.07 | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43 | 232   |
| Hauling             | 0.05    | 3.67 | 0.98 | 0.02    | 0.04    | 0.86 | 0.90    | 0.04    | 0.24    | 0.28    | — | 2,988 | 2,988 | 0.06    | 0.47    | 5.46 | 3,136 |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.34 | 4.34 | < 0.005 | < 0.005 | 0.01    | 4.40 |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.67 | 6.67 | < 0.005 | < 0.005 | 0.01    | 6.98 |
| Hauling             | < 0.005 | 0.11    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 90.1 | 90.1 | < 0.005 | 0.01    | 0.07    | 94.4 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.72 | 0.72 | < 0.005 | < 0.005 | < 0.005 | 0.73 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.10 | 1.10 | < 0.005 | < 0.005 | < 0.005 | 1.16 |
| Hauling             | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.9 | 14.9 | < 0.005 | < 0.005 | 0.01    | 15.6 |

### 3.2. Demolition (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.46 | 5.35 | 24.0 | 0.04 | 0.08  | —     | 0.08  | 0.08   | —      | 0.08   | —    | 4,394 | 4,394 | 0.18 | 0.04 | —    | 4,409 |
| Demolition          | —    | —    | —    | —    | —     | 2.69  | 2.69  | —      | 0.41   | 0.41   | —    | —     | —     | —    | —    | —    | —     |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Road Equipment  | 0.01    | 0.16    | 0.72    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 132   | 132   | 0.01    | < 0.005 | —       | 133   |
| Demolition          | —       | —       | —       | —       | —       | 0.08    | 0.08    | —       | 0.01    | 0.01    | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | < 0.005 | 0.03    | 0.13    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 21.9  | 21.9  | < 0.005 | < 0.005 | —       | 22.0  |
| Demolition          | —       | —       | —       | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.07    | 0.04    | 0.64    | 0.00    | 0.00    | 0.16    | 0.16    | 0.00    | 0.04    | 0.04    | — | 149   | 149   | < 0.005 | 0.01    | 0.43    | 152   |
| Vendor              | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43    | 232   |
| Hauling             | 0.05    | 3.67    | 0.98    | 0.02    | 0.04    | 0.86    | 0.90    | 0.04    | 0.24    | 0.28    | — | 2,988 | 2,988 | 0.06    | 0.47    | 5.46    | 3,136 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.34  | 4.34  | < 0.005 | < 0.005 | 0.01    | 4.40  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.67  | 6.67  | < 0.005 | < 0.005 | 0.01    | 6.98  |
| Hauling             | < 0.005 | 0.11    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 90.1  | 90.1  | < 0.005 | 0.01    | 0.07    | 94.4  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.72  | 0.72  | < 0.005 | < 0.005 | < 0.005 | 0.73  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.10  | 1.10  | < 0.005 | < 0.005 | < 0.005 | 1.16  |
| Hauling             | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.9  | 14.9  | < 0.005 | < 0.005 | 0.01    | 15.6  |

### 3.3. Demolition (2032) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|---------|---------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24 | 3.09 | 11.8 | 0.03    | 0.04    | —     | 0.04    | 0.04    | —       | 0.04    | —    | 3,130 | 3,130 | 0.13    | 0.03    | —    | 3,141 |
| Demolition          | —    | —    | —    | —       | —       | 0.19  | 0.19    | —       | 0.03    | 0.03    | —    | —     | —     | —       | —       | —    | —     |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04 | 0.55 | 2.09 | 0.01    | 0.01    | —     | 0.01    | 0.01    | —       | 0.01    | —    | 557   | 557   | 0.02    | < 0.005 | —    | 559   |
| Demolition          | —    | —    | —    | —       | —       | 0.03  | 0.03    | —       | 0.01    | 0.01    | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.10 | 0.38 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —       | < 0.005 | —    | 92.3  | 92.3  | < 0.005 | < 0.005 | —    | 92.6  |
| Demolition          | —    | —    | —    | —       | —       | 0.01  | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.07    | 0.05    | 0.65    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 173  | 173  | < 0.005 | 0.01    | 0.01    | 176  |
| Vendor              | 0.01    | 0.50    | 0.18    | < 0.005 | < 0.005 | 0.15    | 0.15    | < 0.005 | 0.04    | 0.05    | — | 451  | 451  | 0.01    | 0.07    | 0.02    | 471  |
| Hauling             | < 0.005 | 0.24    | 0.07    | < 0.005 | < 0.005 | 0.06    | 0.06    | < 0.005 | 0.02    | 0.02    | — | 194  | 194  | < 0.005 | 0.03    | 0.01    | 203  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.11    | 0.00    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | — | 31.1 | 31.1 | < 0.005 | < 0.005 | 0.03    | 31.6 |
| Vendor              | < 0.005 | 0.09    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 80.3 | 80.3 | < 0.005 | 0.01    | 0.05    | 83.9 |
| Hauling             | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 34.5 | 34.5 | < 0.005 | 0.01    | 0.02    | 36.2 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 5.15 | 5.15 | < 0.005 | < 0.005 | < 0.005 | 5.23 |
| Vendor              | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 13.3 | 13.3 | < 0.005 | < 0.005 | 0.01    | 13.9 |
| Hauling             | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.72 | 5.72 | < 0.005 | < 0.005 | < 0.005 | 5.99 |

### 3.4. Demolition (2032) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 0.24 | 3.09 | 11.8 | 0.03 | 0.04  | —     | 0.04  | 0.04   | —      | 0.04   | —    | 3,130 | 3,130 | 0.13 | 0.03 | — | 3,141 |

|                     |         |      |      |         |         |      |         |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Demolition          | —       | —    | —    | —       | —       | 0.19 | 0.19    | —       | 0.03    | 0.03    | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.04    | 0.55 | 2.09 | 0.01    | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 557  | 557  | 0.02    | < 0.005 | —    | 559  |
| Demolition          | —       | —    | —    | —       | —       | 0.03 | 0.03    | —       | 0.01    | 0.01    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.01    | 0.10 | 0.38 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 92.3 | 92.3 | < 0.005 | < 0.005 | —    | 92.6 |
| Demolition          | —       | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07    | 0.05 | 0.65 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05    | 0.05    | — | 173  | 173  | < 0.005 | 0.01    | 0.01 | 176  |
| Vendor              | 0.01    | 0.50 | 0.18 | < 0.005 | < 0.005 | 0.15 | 0.15    | < 0.005 | 0.04    | 0.05    | — | 451  | 451  | 0.01    | 0.07    | 0.02 | 471  |
| Hauling             | < 0.005 | 0.24 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06    | < 0.005 | 0.02    | 0.02    | — | 194  | 194  | < 0.005 | 0.03    | 0.01 | 203  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01 | 0.11 | 0.00    | 0.00    | 0.04 | 0.04    | 0.00    | 0.01    | 0.01    | — | 31.1 | 31.1 | < 0.005 | < 0.005 | 0.03 | 31.6 |
| Vendor              | < 0.005 | 0.09 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 80.3 | 80.3 | < 0.005 | 0.01    | 0.05 | 83.9 |

|         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Hauling | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 34.5 | 34.5 | < 0.005 | 0.01    | 0.02    | 36.2 |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 5.15 | 5.15 | < 0.005 | < 0.005 | < 0.005 | 5.23 |
| Vendor  | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 13.3 | 13.3 | < 0.005 | < 0.005 | 0.01    | 13.9 |
| Hauling | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.72 | 5.72 | < 0.005 | < 0.005 | < 0.005 | 5.99 |

### 3.5. Site Preparation (2029) - Unmitigated

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

| Location                    | ROG  | NOx  | CO   | SO2  | PM10E | PM10D   | PM10T   | PM2.5E | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|-------|---------|---------|--------|---------|---------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 0.64 | 4.12 | 36.7 | 0.06 | 0.13  | —       | 0.13    | 0.13   | —       | 0.13    | —    | 6,660 | 6,660 | 0.27 | 0.05 | —    | 6,683 |
| Dust From Material Movement | —    | —    | —    | —    | —     | < 0.005 | < 0.005 | —      | < 0.005 | < 0.005 | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Average Daily               | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 0.08 | 0.52 | 4.62 | 0.01 | 0.02  | —       | 0.02    | 0.02   | —       | 0.02    | —    | 839   | 839   | 0.03 | 0.01 | —    | 842   |
| Dust From Material Movement | —    | —    | —    | —    | —     | < 0.005 | < 0.005 | —      | < 0.005 | < 0.005 | —    | —     | —     | —    | —    | —    | —     |

|                             |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment          | 0.01    | 0.09    | 0.84    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 139   | 139   | 0.01    | < 0.005 | —       | 139   |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.09    | 0.05    | 0.82    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 190   | 190   | < 0.005 | 0.01    | 0.55    | 193   |
| Vendor                      | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43    | 232   |
| Hauling                     | 0.02    | 1.91    | 0.43    | 0.01    | 0.02    | 0.49    | 0.52    | 0.02    | 0.14    | 0.16    | — | 1,694 | 1,694 | 0.03    | 0.27    | 3.13    | 1,778 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.01    | 0.01    | 0.10    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 23.1  | 23.1  | < 0.005 | < 0.005 | 0.03    | 23.4  |
| Vendor                      | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 27.9  | 27.9  | < 0.005 | < 0.005 | 0.02    | 29.2  |
| Hauling                     | < 0.005 | 0.25    | 0.05    | < 0.005 | < 0.005 | 0.06    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 213   | 213   | < 0.005 | 0.03    | 0.17    | 224   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.82  | 3.82  | < 0.005 | < 0.005 | < 0.005 | 3.88  |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.62  | 4.62  | < 0.005 | < 0.005 | < 0.005 | 4.83  |
| Hauling                     | < 0.005 | 0.05    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 35.3  | 35.3  | < 0.005 | 0.01    | 0.03    | 37.1  |

### 3.6. Site Preparation (2029) - Mitigated

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

| Location                    | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.64 | 4.12 | 36.7 | 0.06    | 0.13    | —       | 0.13    | 0.13    | —       | 0.13    | —    | 6,660 | 6,660 | 0.27 | 0.05    | —    | 6,683 |
| Dust From Material Movement | —    | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Average Daily               | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.08 | 0.52 | 4.62 | 0.01    | 0.02    | —       | 0.02    | 0.02    | —       | 0.02    | —    | 839   | 839   | 0.03 | 0.01    | —    | 842   |
| Dust From Material Movement | —    | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.01 | 0.09 | 0.84 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 139   | 139   | 0.01 | < 0.005 | —    | 139   |

|                             |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.09    | 0.05    | 0.82    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 190   | 190   | < 0.005 | 0.01    | 0.55    | 193   |
| Vendor                      | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43    | 232   |
| Hauling                     | 0.02    | 1.91    | 0.43    | 0.01    | 0.02    | 0.49    | 0.52    | 0.02    | 0.14    | 0.16    | — | 1,694 | 1,694 | 0.03    | 0.27    | 3.13    | 1,778 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.01    | 0.01    | 0.10    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 23.1  | 23.1  | < 0.005 | < 0.005 | 0.03    | 23.4  |
| Vendor                      | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 27.9  | 27.9  | < 0.005 | < 0.005 | 0.02    | 29.2  |
| Hauling                     | < 0.005 | 0.25    | 0.05    | < 0.005 | < 0.005 | 0.06    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 213   | 213   | < 0.005 | 0.03    | 0.17    | 224   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.82  | 3.82  | < 0.005 | < 0.005 | < 0.005 | 3.88  |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.62  | 4.62  | < 0.005 | < 0.005 | < 0.005 | 4.83  |
| Hauling                     | < 0.005 | 0.05    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 35.3  | 35.3  | < 0.005 | 0.01    | 0.03    | 37.1  |

### 3.7. Grading (2029) - Unmitigated

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

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

|                             |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|-----------------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.47    | 3.20 | 26.6 | 0.04    | 0.09    | —    | 0.09    | 0.09    | —    | 0.09    | — | 4,824 | 4,824 | 0.20    | 0.04    | —    | 4,841 |
| Dust From Material Movement | —       | —    | —    | —       | —       | 2.56 | 2.56    | —       | 1.31 | 1.31    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.02    | 0.14 | 1.17 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 211   | 211   | 0.01    | < 0.005 | —    | 212   |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.11 | 0.11    | —       | 0.06 | 0.06    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.03 | 0.21 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 35.0  | 35.0  | < 0.005 | < 0.005 | —    | 35.1  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.02 | 0.02    | —       | 0.01 | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.10    | 0.06    | 0.88    | 0.00    | 0.00    | 0.21    | 0.21    | 0.00    | 0.05    | 0.05    | — | 204   | 204   | < 0.005 | 0.01    | 0.59    | 207   |
| Vendor              | 0.01    | 0.31    | 0.10    | < 0.005 | < 0.005 | 0.08    | 0.09    | < 0.005 | 0.02    | 0.03    | — | 277   | 277   | < 0.005 | 0.04    | 0.53    | 290   |
| Hauling             | 0.01    | 1.17    | 0.26    | 0.01    | 0.01    | 0.30    | 0.32    | 0.01    | 0.09    | 0.10    | — | 1,042 | 1,042 | 0.02    | 0.16    | 1.93    | 1,094 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.04    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.60  | 8.60  | < 0.005 | < 0.005 | 0.01    | 8.73  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.1  | 12.1  | < 0.005 | < 0.005 | 0.01    | 12.7  |
| Hauling             | < 0.005 | 0.05    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 45.7  | 45.7  | < 0.005 | 0.01    | 0.04    | 47.9  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.42  | 1.42  | < 0.005 | < 0.005 | < 0.005 | 1.45  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.01  | 2.01  | < 0.005 | < 0.005 | < 0.005 | 2.10  |
| Hauling             | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 7.57  | 7.57  | < 0.005 | < 0.005 | 0.01    | 7.93  |

### 3.8. Grading (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 0.47 | 3.20 | 26.6 | 0.04 | 0.09  | —     | 0.09  | 0.09   | —      | 0.09   | —    | 4,824 | 4,824 | 0.20 | 0.04 | — | 4,841 |

|                             |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|-----------------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Dust From Material Movement | —       | —    | —    | —       | —       | 2.56 | 2.56    | —       | 1.31 | 1.31    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.02    | 0.14 | 1.17 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 211   | 211   | 0.01    | < 0.005 | —    | 212   |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.11 | 0.11    | —       | 0.06 | 0.06    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.03 | 0.21 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 35.0  | 35.0  | < 0.005 | < 0.005 | —    | 35.1  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.02 | 0.02    | —       | 0.01 | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.10    | 0.06 | 0.88 | 0.00    | 0.00    | 0.21 | 0.21    | 0.00    | 0.05 | 0.05    | — | 204   | 204   | < 0.005 | 0.01    | 0.59 | 207   |
| Vendor                      | 0.01    | 0.31 | 0.10 | < 0.005 | < 0.005 | 0.08 | 0.09    | < 0.005 | 0.02 | 0.03    | — | 277   | 277   | < 0.005 | 0.04    | 0.53 | 290   |
| Hauling                     | 0.01    | 1.17 | 0.26 | 0.01    | 0.01    | 0.30 | 0.32    | 0.01    | 0.09 | 0.10    | — | 1,042 | 1,042 | 0.02    | 0.16    | 1.93 | 1,094 |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.04    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.60 | 8.60 | < 0.005 | < 0.005 | 0.01    | 8.73 |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.1 | 12.1 | < 0.005 | < 0.005 | 0.01    | 12.7 |
| Hauling             | < 0.005 | 0.05    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 45.7 | 45.7 | < 0.005 | 0.01    | 0.04    | 47.9 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.42 | 1.42 | < 0.005 | < 0.005 | < 0.005 | 1.45 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.01 | 2.01 | < 0.005 | < 0.005 | < 0.005 | 2.10 |
| Hauling             | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 7.57 | 7.57 | < 0.005 | < 0.005 | 0.01    | 7.93 |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08 | —    | 10,430 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08 | —    | 10,430 |
| 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   |

|                     |         |      |      |         |         |      |      |         |      |      |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|---------|---------|------|-------|
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.23    | 1.44 | 13.0 | 0.03    | 0.05    | —    | 0.05 | 0.05    | —    | 0.05 | — | 3,112 | 3,112 | 0.13    | 0.03    | —    | 3,123 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04    | 0.26 | 2.37 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | — | 515   | 515   | 0.02    | < 0.005 | —    | 517   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.13 | 1.99 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11 | 0.11 | — | 462   | 462   | 0.01    | 0.02    | 1.33 | 469   |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 443   | 443   | 0.01    | 0.07    | 0.85 | 463   |
| Hauling             | 0.04    | 3.67 | 0.82 | 0.02    | 0.05    | 0.95 | 1.00 | 0.05    | 0.27 | 0.31 | — | 3,257 | 3,257 | 0.05    | 0.52    | 6.02 | 3,418 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.21    | 0.17 | 1.89 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11 | 0.11 | — | 442   | 442   | 0.01    | 0.02    | 0.03 | 448   |
| Vendor              | 0.01    | 0.51 | 0.17 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 443   | 443   | 0.01    | 0.07    | 0.02 | 463   |
| Hauling             | 0.04    | 3.80 | 0.83 | 0.02    | 0.05    | 0.95 | 1.00 | 0.05    | 0.27 | 0.31 | — | 3,258 | 3,258 | 0.05    | 0.52    | 0.16 | 3,413 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.06    | 0.04 | 0.56 | 0.00    | 0.00    | 0.14 | 0.14 | 0.00    | 0.03 | 0.03 | — | 133   | 133   | < 0.005 | 0.01    | 0.17 | 135   |
| Vendor              | < 0.005 | 0.15 | 0.05 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 133   | 133   | < 0.005 | 0.02    | 0.11 | 139   |
| Hauling             | 0.01    | 1.14 | 0.25 | 0.01    | 0.01    | 0.28 | 0.30 | 0.01    | 0.08 | 0.09 | — | 975   | 975   | 0.02    | 0.15    | 0.78 | 1,023 |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.10 | 0.00    | 0.00    | 0.03 | 0.03 | 0.00    | 0.01 | 0.01 | — | 22.1  | 22.1  | < 0.005 | < 0.005 | 0.03 | 22.4  |

|         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.0 | 22.0 | < 0.005 | < 0.005 | 0.02 | 23.0 |
| Hauling | < 0.005 | 0.21 | 0.04 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01    | 0.02    | — | 161  | 161  | < 0.005 | 0.03    | 0.13 | 169  |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.23 | 1.44 | 13.0 | 0.03 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 3,112  | 3,112  | 0.13 | 0.03    | —    | 3,123  |
| 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   |
| Annual              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.04 | 0.26 | 2.37 | 0.01 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 515    | 515    | 0.02 | < 0.005 | —    | 517    |
| 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   |

|                     |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.13 | 1.99 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11    | 0.11    | — | 462   | 462   | 0.01    | 0.02    | 1.33 | 469   |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 443   | 443   | 0.01    | 0.07    | 0.85 | 463   |
| Hauling             | 0.04    | 3.67 | 0.82 | 0.02    | 0.05    | 0.95 | 1.00 | 0.05    | 0.27    | 0.31    | — | 3,257 | 3,257 | 0.05    | 0.52    | 6.02 | 3,418 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.21    | 0.17 | 1.89 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11    | 0.11    | — | 442   | 442   | 0.01    | 0.02    | 0.03 | 448   |
| Vendor              | 0.01    | 0.51 | 0.17 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 443   | 443   | 0.01    | 0.07    | 0.02 | 463   |
| Hauling             | 0.04    | 3.80 | 0.83 | 0.02    | 0.05    | 0.95 | 1.00 | 0.05    | 0.27    | 0.31    | — | 3,258 | 3,258 | 0.05    | 0.52    | 0.16 | 3,413 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.06    | 0.04 | 0.56 | 0.00    | 0.00    | 0.14 | 0.14 | 0.00    | 0.03    | 0.03    | — | 133   | 133   | < 0.005 | 0.01    | 0.17 | 135   |
| Vendor              | < 0.005 | 0.15 | 0.05 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | — | 133   | 133   | < 0.005 | 0.02    | 0.11 | 139   |
| Hauling             | 0.01    | 1.14 | 0.25 | 0.01    | 0.01    | 0.28 | 0.30 | 0.01    | 0.08    | 0.09    | — | 975   | 975   | 0.02    | 0.15    | 0.78 | 1,023 |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.10 | 0.00    | 0.00    | 0.03 | 0.03 | 0.00    | 0.01    | 0.01    | — | 22.1  | 22.1  | < 0.005 | < 0.005 | 0.03 | 22.4  |
| Vendor              | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.0  | 22.0  | < 0.005 | < 0.005 | 0.02 | 23.0  |
| Hauling             | < 0.005 | 0.21 | 0.04 | < 0.005 | < 0.005 | 0.05 | 0.05 | < 0.005 | 0.01    | 0.02    | — | 161   | 161   | < 0.005 | 0.03    | 0.13 | 169   |

### 3.11. Building Construction (2030) - Unmitigated

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

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

|                     |         |      |      |         |         |      |         |         |      |         |   |        |        |         |         |      |        |
|---------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.78    | 4.80 | 43.3 | 0.10    | 0.15    | —    | 0.15    | 0.15    | —    | 0.15    | — | 10,394 | 10,394 | 0.42    | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.12    | 0.74 | 6.70 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 1,607  | 1,607  | 0.07    | 0.01    | —    | 1,612  |
| 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   |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.02    | 0.14 | 1.22 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 266    | 266    | 0.01    | < 0.005 | —    | 267    |
| 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   |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.20    | 0.15 | 1.77 | 0.00    | 0.00    | 0.48 | 0.48    | 0.00    | 0.11 | 0.11    | — | 434    | 434    | 0.01    | 0.02    | 0.03 | 440    |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14    | < 0.005 | 0.04 | 0.04    | — | 429    | 429    | 0.01    | 0.06    | 0.02 | 448    |
| Hauling             | 0.04    | 3.63 | 0.83 | 0.02    | 0.05    | 0.95 | 1.00    | 0.05    | 0.27 | 0.31    | — | 3,163  | 3,163  | 0.05    | 0.49    | 0.14 | 3,311  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.03    | 0.02 | 0.27 | 0.00    | 0.00    | 0.07 | 0.07    | 0.00    | 0.02 | 0.02    | — | 67.6   | 67.6   | < 0.005 | < 0.005 | 0.08 | 68.6   |
| Vendor              | < 0.005 | 0.08 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02    | < 0.005 | 0.01 | 0.01    | — | 66.4   | 66.4   | < 0.005 | 0.01    | 0.05 | 69.3   |
| Hauling             | 0.01    | 0.56 | 0.13 | < 0.005 | 0.01    | 0.15 | 0.15    | 0.01    | 0.04 | 0.05    | — | 489    | 489    | 0.01    | 0.08    | 0.37 | 512    |

|         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker  | 0.01    | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 11.2 | 11.2 | < 0.005 | < 0.005 | 0.01 | 11.4 |
| Vendor  | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.0 | 11.0 | < 0.005 | < 0.005 | 0.01 | 11.5 |
| Hauling | < 0.005 | 0.10    | 0.02    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 81.0 | 81.0 | < 0.005 | 0.01    | 0.06 | 84.8 |

### 3.12. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10    | 0.15    | —     | 0.15    | 0.15    | —      | 0.15    | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.12 | 0.74 | 6.70 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,607  | 1,607  | 0.07 | 0.01    | —    | 1,612  |
| 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   |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.02 | 0.14 | 1.22 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 266    | 266    | 0.01 | < 0.005 | —    | 267    |
| 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   |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |

|                     |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.20    | 0.15    | 1.77    | 0.00    | 0.00    | 0.48    | 0.48    | 0.00    | 0.11    | 0.11    | — | 434   | 434   | 0.01    | 0.02    | 0.03 | 440   |
| Vendor              | 0.01    | 0.49    | 0.16    | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 429   | 429   | 0.01    | 0.06    | 0.02 | 448   |
| Hauling             | 0.04    | 3.63    | 0.83    | 0.02    | 0.05    | 0.95    | 1.00    | 0.05    | 0.27    | 0.31    | — | 3,163 | 3,163 | 0.05    | 0.49    | 0.14 | 3,311 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.03    | 0.02    | 0.27    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | — | 67.6  | 67.6  | < 0.005 | < 0.005 | 0.08 | 68.6  |
| Vendor              | < 0.005 | 0.08    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | — | 66.4  | 66.4  | < 0.005 | 0.01    | 0.05 | 69.3  |
| Hauling             | 0.01    | 0.56    | 0.13    | < 0.005 | 0.01    | 0.15    | 0.15    | 0.01    | 0.04    | 0.05    | — | 489   | 489   | 0.01    | 0.08    | 0.37 | 512   |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 11.2  | 11.2  | < 0.005 | < 0.005 | 0.01 | 11.4  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.0  | 11.0  | < 0.005 | < 0.005 | 0.01 | 11.5  |
| Hauling             | < 0.005 | 0.10    | 0.02    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 81.0  | 81.0  | < 0.005 | 0.01    | 0.06 | 84.8  |

### 3.13. Building Construction (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.24 | 1.27 | 12.7 | 0.05 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 4,588 | 4,588 | 0.19 | 0.04 | —    | 4,604 |
| 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  |

|                     |         |         |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|---------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.07    | 0.38    | 3.79 | 0.01    | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 1,370 | 1,370 | 0.06    | 0.01    | —    | 1,375 |
| 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  |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01    | 0.07    | 0.69 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 227   | 227   | 0.01    | < 0.005 | —    | 228   |
| 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  |
| Offsite             | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08    | 0.05    | 0.72 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05    | 0.05    | — | 184   | 184   | < 0.005 | < 0.005 | 0.43 | 185   |
| Vendor              | 0.01    | 0.34    | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10    | < 0.005 | 0.03    | 0.03    | — | 311   | 311   | < 0.005 | 0.05    | 0.49 | 326   |
| 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  |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02    | 0.02    | 0.20 | 0.00    | 0.00    | 0.06 | 0.06    | 0.00    | 0.01    | 0.01    | — | 52.9  | 52.9  | < 0.005 | < 0.005 | 0.06 | 53.7  |
| Vendor              | < 0.005 | 0.10    | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 92.9  | 92.9  | < 0.005 | 0.01    | 0.06 | 97.2  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.76  | 8.76  | < 0.005 | < 0.005 | 0.01 | 8.90  |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 15.4  | 15.4  | < 0.005 | < 0.005 | 0.01 | 16.1  |

|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|

### 3.14. Building Construction (2031) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24 | 1.27 | 12.7 | 0.05    | 0.05    | —     | 0.05    | 0.05    | —      | 0.05    | —    | 4,588 | 4,588 | 0.19    | 0.04    | —    | 4,604 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.07 | 0.38 | 3.79 | 0.01    | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 1,370 | 1,370 | 0.06    | 0.01    | —    | 1,375 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.07 | 0.69 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 227   | 227   | 0.01    | < 0.005 | —    | 228   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08 | 0.05 | 0.72 | 0.00    | 0.00    | 0.20  | 0.20    | 0.00    | 0.05   | 0.05    | —    | 184   | 184   | < 0.005 | < 0.005 | 0.43 | 185   |

|                     |         |         |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor              | 0.01    | 0.34    | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.03    | 0.03    | — | 311  | 311  | < 0.005 | 0.05    | 0.49 | 326  |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.02    | 0.20 | 0.00    | 0.00    | 0.06 | 0.06 | 0.00    | 0.01    | 0.01    | — | 52.9 | 52.9 | < 0.005 | < 0.005 | 0.06 | 53.7 |
| Vendor              | < 0.005 | 0.10    | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01    | 0.01    | — | 92.9 | 92.9 | < 0.005 | 0.01    | 0.06 | 97.2 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 8.76 | 8.76 | < 0.005 | < 0.005 | 0.01 | 8.90 |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 15.4 | 15.4 | < 0.005 | < 0.005 | 0.01 | 16.1 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.13    | 1.15 | 6.80 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —       | 0.02    | — | 1,849 | 1,849 | 0.08    | 0.02    | —    | 1,855 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.02    | 0.21 | 1.24 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 306   | 306   | 0.01    | < 0.005 | —    | 307   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.24    | 0.19 | 2.16 | 0.00    | 0.00    | 0.55 | 0.55    | 0.00    | 0.13    | 0.13    | — | 507   | 507   | 0.01    | 0.02    | 0.04 | 514   |
| Vendor              | 0.01    | 0.71 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19    | < 0.005 | 0.05    | 0.06    | — | 609   | 609   | 0.01    | 0.09    | 0.03 | 636   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.10 | 0.10    | 0.00    | 0.02    | 0.02    | — | 91.9  | 91.9  | < 0.005 | < 0.005 | 0.12 | 93.3  |
| Vendor              | < 0.005 | 0.13 | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 110   | 110   | < 0.005 | 0.02    | 0.09 | 115   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 15.2  | 15.2  | < 0.005 | < 0.005 | 0.02 | 15.4  |
| Vendor              | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 18.1  | 18.1  | < 0.005 | < 0.005 | 0.02 | 19.0  |
| 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  |

3.16. Building Construction (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11    | 0.14    | —     | 0.14    | 0.14    | —      | 0.14    | —    | 10,270 | 10,270 | 0.42 | 0.08    | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.13 | 1.15 | 6.80 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,849  | 1,849  | 0.08 | 0.02    | —    | 1,855  |
| 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   |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.02 | 0.21 | 1.24 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 306    | 306    | 0.01 | < 0.005 | —    | 307    |
| 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   |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Worker              | 0.24 | 0.19 | 2.16 | 0.00    | 0.00    | 0.55  | 0.55    | 0.00    | 0.13   | 0.13    | —    | 507    | 507    | 0.01 | 0.02    | 0.04 | 514    |
| Vendor              | 0.01 | 0.71 | 0.23 | < 0.005 | < 0.005 | 0.18  | 0.19    | < 0.005 | 0.05   | 0.06    | —    | 609    | 609    | 0.01 | 0.09    | 0.03 | 636    |

|               |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| 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 |
| Average Daily | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.10 | 0.10 | 0.00    | 0.02    | 0.02    | — | 91.9 | 91.9 | < 0.005 | < 0.005 | 0.12 | 93.3 |
| Vendor        | < 0.005 | 0.13 | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01    | 0.01    | — | 110  | 110  | < 0.005 | 0.02    | 0.09 | 115  |
| 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 |
| Annual        | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 15.2 | 15.2 | < 0.005 | < 0.005 | 0.02 | 15.4 |
| Vendor        | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.1 | 18.1 | < 0.005 | < 0.005 | 0.02 | 19.0 |
| 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 |

### 3.17. Building Construction (2030) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.29    | 2.55 | 15.0 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —       | 0.05    | — | 4,080 | 4,080 | 0.17    | 0.03    | —    | 4,094 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.05    | 0.46 | 2.74 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —       | 0.01    | — | 675   | 675   | 0.03    | 0.01    | —    | 678   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.15 | 2.15 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 521   | 521   | 0.01    | 0.02    | 1.36 | 529   |
| Vendor              | 0.01    | 0.65 | 0.22 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590   | 590   | 0.01    | 0.09    | 1.03 | 617   |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.17 | 2.04 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 498   | 498   | 0.01    | 0.02    | 0.04 | 505   |
| Vendor              | 0.01    | 0.67 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590   | 590   | 0.01    | 0.09    | 0.03 | 616   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.09    | 0.07 | 0.80 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05    | 0.05    | — | 199   | 199   | < 0.005 | 0.01    | 0.23 | 202   |
| Vendor              | 0.01    | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 234   | 234   | < 0.005 | 0.03    | 0.18 | 245   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 33.0  | 33.0  | < 0.005 | < 0.005 | 0.04 | 33.5  |
| Vendor              | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 38.8  | 38.8  | < 0.005 | 0.01    | 0.03 | 40.5  |
| 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  |

### 3.18. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.29 | 2.55 | 15.0 | 0.04 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 4,080  | 4,080  | 0.17 | 0.03 | —    | 4,094  |
| 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   |
| Annual              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.05 | 0.46 | 2.74 | 0.01 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 675    | 675    | 0.03 | 0.01 | —    | 678    |
| 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   |
| Offsite             | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.23    | 0.15 | 2.15 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 521  | 521  | 0.01    | 0.02    | 1.36 | 529  |
| Vendor              | 0.01    | 0.65 | 0.22 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590  | 590  | 0.01    | 0.09    | 1.03 | 617  |
| 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 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.23    | 0.17 | 2.04 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 498  | 498  | 0.01    | 0.02    | 0.04 | 505  |
| Vendor              | 0.01    | 0.67 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590  | 590  | 0.01    | 0.09    | 0.03 | 616  |
| 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 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.09    | 0.07 | 0.80 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05    | 0.05    | — | 199  | 199  | < 0.005 | 0.01    | 0.23 | 202  |
| Vendor              | 0.01    | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 234  | 234  | < 0.005 | 0.03    | 0.18 | 245  |
| 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 |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 33.0 | 33.0 | < 0.005 | < 0.005 | 0.04 | 33.5 |
| Vendor              | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 38.8 | 38.8 | < 0.005 | 0.01    | 0.03 | 40.5 |
| 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 |

### 3.19. Building Construction (2030) - Unmitigated

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

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

|                     |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |      |       |
|---------------------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11 | 0.11    | —    | 0.11 | — | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11 | 0.11    | —    | 0.11 | — | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.24 | 1.24 | 12.4 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —    | 0.05 | — | 3,916 | 3,916 | 0.16 | 0.03 | —    | 3,929 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.04 | 0.23 | 2.26 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | — | 648   | 648   | 0.03 | 0.01 | —    | 651   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Worker              | 0.11 | 0.07 | 0.99 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06 | 0.06 | — | 240   | 240   | 0.01 | 0.01 | 0.63 | 244   |
| Vendor              | 0.01 | 0.47 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 429   | 429   | 0.01 | 0.06 | 0.75 | 449   |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Worker              | 0.10 | 0.08 | 0.94 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06 | 0.06 | — | 230   | 230   | 0.01 | 0.01 | 0.02 | 233   |

|               |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429  | 429  | 0.01    | 0.06    | 0.02 | 448  |
| 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 |
| Average Daily | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 97.0 | 97.0 | < 0.005 | < 0.005 | 0.11 | 98.4 |
| Vendor        | < 0.005 | 0.20 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | — | 180  | 180  | < 0.005 | 0.03    | 0.14 | 188  |
| 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 |
| Annual        | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 16.1 | 16.1 | < 0.005 | < 0.005 | 0.02 | 16.3 |
| Vendor        | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 29.8 | 29.8 | < 0.005 | < 0.005 | 0.02 | 31.1 |
| Hauling       | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.20. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |

|                     |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24    | 1.24 | 12.4 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —       | 0.05    | — | 3,916 | 3,916 | 0.16    | 0.03    | —    | 3,929 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04    | 0.23 | 2.26 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —       | 0.01    | — | 648   | 648   | 0.03    | 0.01    | —    | 651   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.11    | 0.07 | 0.99 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | — | 240   | 240   | 0.01    | 0.01    | 0.63 | 244   |
| Vendor              | 0.01    | 0.47 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429   | 429   | 0.01    | 0.06    | 0.75 | 449   |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10    | 0.08 | 0.94 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | — | 230   | 230   | 0.01    | 0.01    | 0.02 | 233   |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429   | 429   | 0.01    | 0.06    | 0.02 | 448   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 97.0  | 97.0  | < 0.005 | < 0.005 | 0.11 | 98.4  |
| Vendor              | < 0.005 | 0.20 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | — | 180   | 180   | < 0.005 | 0.03    | 0.14 | 188   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 16.1  | 16.1  | < 0.005 | < 0.005 | 0.02 | 16.3  |

|         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 29.8 | 29.8 | < 0.005 | < 0.005 | 0.02 | 31.1 |
| Hauling | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.21. Building Construction (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —     | 0.11    | 0.11    | —      | 0.11    | —    | 9,351 | 9,351 | 0.38 | 0.08    | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —     | 0.11    | 0.11    | —      | 0.11    | —    | 9,351 | 9,351 | 0.38 | 0.08    | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.11 | 0.55 | 5.51 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,738 | 1,738 | 0.07 | 0.01    | —    | 1,744 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.02 | 0.10 | 1.00 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 288   | 288   | 0.01 | < 0.005 | —    | 289   |
| 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  |

|                     |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Offsite             | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.10    | 0.06    | 0.92 | 0.00    | 0.00    | 0.25    | 0.25    | 0.00    | 0.06    | 0.06    | — | 237  | 237  | < 0.005 | < 0.005 | 0.56 | 238  |
| Vendor              | 0.01    | 0.45    | 0.15 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.65 | 434  |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.10    | 0.07    | 0.88 | 0.00    | 0.00    | 0.25    | 0.25    | 0.00    | 0.06    | 0.06    | — | 226  | 226  | 0.01    | 0.01    | 0.01 | 230  |
| Vendor              | 0.01    | 0.47    | 0.16 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.02 | 434  |
| 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 |
| Average Daily       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.01    | 0.16 | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.04 | 43.0 |
| Vendor              | < 0.005 | 0.09    | 0.03 | < 0.005 | < 0.005 | 0.02    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 77.1 | 77.1 | < 0.005 | 0.01    | 0.05 | 80.7 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.12 |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.01 | 13.4 |
| 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 |

### 3.22. Building Construction (2031) - Mitigated

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

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

|                     |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|---------------------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | — | 9,351 | 9,351 | 0.38    | 0.08    | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | — | 9,351 | 9,351 | 0.38    | 0.08    | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.11 | 0.55 | 5.51 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 1,738 | 1,738 | 0.07    | 0.01    | —    | 1,744 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.02 | 0.10 | 1.00 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 288   | 288   | 0.01    | < 0.005 | —    | 289   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10 | 0.06 | 0.92 | 0.00    | 0.00    | 0.25 | 0.25    | 0.00    | 0.06 | 0.06    | — | 237   | 237   | < 0.005 | < 0.005 | 0.56 | 238   |
| Vendor              | 0.01 | 0.45 | 0.15 | < 0.005 | < 0.005 | 0.13 | 0.14    | < 0.005 | 0.04 | 0.04    | — | 415   | 415   | 0.01    | 0.06    | 0.65 | 434   |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10 | 0.07 | 0.88 | 0.00    | 0.00    | 0.25 | 0.25    | 0.00    | 0.06 | 0.06    | — | 226   | 226   | 0.01    | 0.01    | 0.01 | 230   |

|               |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.01    | 0.47    | 0.16 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.02 | 434  |
| 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 |
| Average Daily | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.02    | 0.01    | 0.16 | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.04 | 43.0 |
| Vendor        | < 0.005 | 0.09    | 0.03 | < 0.005 | < 0.005 | 0.02    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 77.1 | 77.1 | < 0.005 | 0.01    | 0.05 | 80.7 |
| Hauling       | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual        | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.12 |
| Vendor        | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.01 | 13.4 |
| 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 |

### 3.23. Paving (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|---------------------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite              | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment  | 0.05 | 0.25 | 3.49 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 497   | 497  | 0.02 | < 0.005 | —    | 499  |
| Paving              | 0.52 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| 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 |
| Daily, Winter (Max) | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Average Daily       | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |

|                     |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment  | 0.01    | 0.03    | 0.38 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 54.5 | 54.5 | < 0.005 | < 0.005 | —       | 54.7 |
| Paving              | 0.06    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | 0.07 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 9.02 | 9.02 | < 0.005 | < 0.005 | —       | 9.05 |
| Paving              | 0.01    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.04    | 0.56 | 0.00    | 0.00    | 0.16    | 0.16    | 0.00    | 0.04    | 0.04    | — | 145  | 145  | < 0.005 | < 0.005 | 0.34    | 145  |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.06 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | 0.02    | 15.5 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 2.53 | 2.53 | < 0.005 | < 0.005 | < 0.005 | 2.57 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |

### 3.24. Paving (2031) - Mitigated

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

| Location            | ROG     | NOx     | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|---------------------|---------|---------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite              | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.05    | 0.25    | 3.49 | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 497   | 497  | 0.02    | < 0.005 | —    | 499  |
| Paving              | 0.52    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Average Daily       | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.01    | 0.03    | 0.38 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 54.5  | 54.5 | < 0.005 | < 0.005 | —    | 54.7 |
| Paving              | 0.06    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | 0.07 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 9.02  | 9.02 | < 0.005 | < 0.005 | —    | 9.05 |
| Paving              | 0.01    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |

|                     |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker              | 0.06    | 0.04    | 0.56 | 0.00 | 0.00 | 0.16    | 0.16    | 0.00 | 0.04    | 0.04    | — | 145  | 145  | < 0.005 | < 0.005 | 0.34    | 145  |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | 0.02    | 15.5 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.53 | 2.53 | < 0.005 | < 0.005 | < 0.005 | 2.57 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |

### 3.25. Architectural Coating (2031) - Unmitigated

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

| Location               | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|------------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Summer (Max)    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | 0.01 | —     | —     | —     | —      | —      | —      | —    | 463   | 463  | 0.02 | < 0.005 | —    | 465  |
| Architectural Coatings | 4.94 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| 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 |

|                        |         |         |      |         |      |         |         |      |         |         |   |      |      |         |         |         |      |
|------------------------|---------|---------|------|---------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —    | < 0.005 | —    | —       | —       | —    | —       | —       | — | 52.0 | 52.0 | < 0.005 | < 0.005 | —       | 52.2 |
| Architectural Coatings | 0.55    | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                 | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —    | < 0.005 | —    | —       | —       | —    | —       | —       | — | 8.61 | 8.61 | < 0.005 | < 0.005 | —       | 8.64 |
| Architectural Coatings | 0.10    | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| 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 |
| Offsite                | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | 0.01    | 0.01    | 0.10 | 0.00    | 0.00 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.06    | 26.4 |
| Vendor                 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.84 | 2.84 | < 0.005 | < 0.005 | < 0.005 | 2.89 |

|         |         |         |         |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Annual  | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.47 | 0.47 | < 0.005 | < 0.005 | < 0.005 | 0.48 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.26. Architectural Coating (2031) - Mitigated

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

| Location               | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|------------------------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|------|------|
| Onsite                 | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | 0.01    | —     | —     | —     | —      | —      | —      | —    | 463   | 463  | 0.02    | < 0.005 | —    | 465  |
| Architectural Coatings | 4.94 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| 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 |
| Daily, Winter (Max)    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Average Daily          | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | < 0.005 | —     | —     | —     | —      | —      | —      | —    | 52.0  | 52.0 | < 0.005 | < 0.005 | —    | 52.2 |
| Architectural Coatings | 0.55 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |

|                        |         |         |         |         |      |         |         |      |         |         |      |   |      |      |         |         |         |      |
|------------------------|---------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---|------|------|---------|---------|---------|------|
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                 | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —       | < 0.005 | —    | —       | —       | —    | —       | —       | —    | — | 8.61 | 8.61 | < 0.005 | < 0.005 | —       | 8.64 |
| Architectural Coatings | 0.10    | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | 0.01    | 0.01    | 0.10    | 0.00    | 0.00 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | —    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.06    | 26.4 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max)    | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | —    | — | 2.84 | 2.84 | < 0.005 | < 0.005 | < 0.005 | 2.89 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Annual                 | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | —    | — | 0.47 | 0.47 | < 0.005 | < 0.005 | < 0.005 | 0.48 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

3.27. Trenching (2030) - Unmitigated

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

| Location                    | ROG     | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-----------------------------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|---------|---------|------|------|
| Onsite                      | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | < 0.005 | 0.14 | 0.21 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 86.9  | 86.9 | < 0.005 | < 0.005 | —    | 87.2 |
| Dust From Material Movement | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|                             |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment          | < 0.005 | 0.03    | 0.04    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 14.4  | 14.4  | < 0.005 | < 0.005 | —       | 14.4  |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.14    | 0.09    | 1.27    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 307   | 307   | 0.01    | 0.01    | 0.80    | 312   |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.6  | 53.6  | < 0.005 | 0.01    | 0.09    | 56.1  |
| Hauling                     | 0.03    | 2.24    | 0.53    | 0.02    | 0.03    | 0.61    | 0.64    | 0.03    | 0.17    | 0.20    | — | 2,024 | 2,024 | 0.03    | 0.31    | 3.50    | 2,122 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.13    | 0.10    | 1.20    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 294   | 294   | 0.01    | 0.01    | 0.02    | 298   |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.7  | 53.7  | < 0.005 | 0.01    | < 0.005 | 56.0  |
| Hauling                     | 0.02    | 2.32    | 0.53    | 0.02    | 0.03    | 0.61    | 0.64    | 0.03    | 0.17    | 0.20    | — | 2,024 | 2,024 | 0.03    | 0.31    | 0.09    | 2,119 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 45.4  | 45.4  | < 0.005 | < 0.005 | 0.05    | 46.1  |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.23  | 8.23  | < 0.005 | < 0.005 | 0.01    | 8.60  |
| Hauling                     | < 0.005 | 0.36    | 0.08    | < 0.005 | < 0.005 | 0.09    | 0.10    | < 0.005 | 0.03    | 0.03    | — | 311   | 311   | 0.01    | 0.05    | 0.23    | 325   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.52  | 7.52  | < 0.005 | < 0.005 | 0.01    | 7.63  |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.36  | 1.36  | < 0.005 | < 0.005 | < 0.005 | 1.42  |
| Hauling                     | < 0.005 | 0.07    | 0.01    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 51.4  | 51.4  | < 0.005 | 0.01    | 0.04    | 53.9  |

### 3.28. Trenching (2030) - Mitigated

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

| Location                    | ROG     | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-----------------------------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|---------|---------|------|------|
| Onsite                      | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | < 0.005 | 0.14 | 0.21 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 86.9  | 86.9 | < 0.005 | < 0.005 | —    | 87.2 |
| Dust From Material Movement | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |

|                             |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment          | < 0.005 | 0.03    | 0.04    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 14.4  | 14.4  | < 0.005 | < 0.005 | —       | 14.4  |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.14    | 0.09    | 1.27    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 307   | 307   | 0.01    | 0.01    | 0.80    | 312   |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.6  | 53.6  | < 0.005 | 0.01    | 0.09    | 56.1  |
| Hauling                     | 0.03    | 2.24    | 0.53    | 0.02    | 0.03    | 0.61    | 0.64    | 0.03    | 0.17    | 0.20    | — | 2,024 | 2,024 | 0.03    | 0.31    | 3.50    | 2,122 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.13    | 0.10    | 1.20    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 294   | 294   | 0.01    | 0.01    | 0.02    | 298   |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.7  | 53.7  | < 0.005 | 0.01    | < 0.005 | 56.0  |
| Hauling                     | 0.02    | 2.32    | 0.53    | 0.02    | 0.03    | 0.61    | 0.64    | 0.03    | 0.17    | 0.20    | — | 2,024 | 2,024 | 0.03    | 0.31    | 0.09    | 2,119 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 45.4  | 45.4  | < 0.005 | < 0.005 | 0.05    | 46.1  |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.23  | 8.23  | < 0.005 | < 0.005 | 0.01    | 8.60  |
| Hauling                     | < 0.005 | 0.36    | 0.08    | < 0.005 | < 0.005 | 0.09    | 0.10    | < 0.005 | 0.03    | 0.03    | — | 311   | 311   | 0.01    | 0.05    | 0.23    | 325   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.52  | 7.52  | < 0.005 | < 0.005 | 0.01    | 7.63  |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.36  | 1.36  | < 0.005 | < 0.005 | < 0.005 | 1.42  |

|         |         |      |      |         |         |      |      |         |         |      |   |      |      |         |      |      |      |
|---------|---------|------|------|---------|---------|------|------|---------|---------|------|---|------|------|---------|------|------|------|
| Hauling | < 0.005 | 0.07 | 0.01 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 51.4 | 51.4 | < 0.005 | 0.01 | 0.04 | 53.9 |
|---------|---------|------|------|---------|---------|------|------|---------|---------|------|---|------|------|---------|------|------|------|

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

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

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

| Vegetation          | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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            | 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             | 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          | 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 | 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             | 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 |
|-----------------------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| 2-Existing Project Site Demo      | Demolition            | 6/15/2029  | 6/29/2029  | 5.00          | 11.0                | —                 |
| 12-Decommissioning Demolition     | Demolition            | 10/1/2032  | 12/30/2032 | 5.00          | 65.0                | —                 |
| 1-Subsurface Exploration          | Site Preparation      | 5/1/2029   | 7/3/2029   | 5.00          | 46.0                | —                 |
| 3-Site Preparation/ Rough Grading | Grading               | 7/4/2029   | 7/25/2029  | 5.00          | 16.0                | —                 |
| 4-Foundations                     | Building Construction | 8/1/2029   | 3/20/2030  | 5.00          | 166                 | —                 |

|  |                       |           |           |      |      |   |
|--|-----------------------|-----------|-----------|------|------|---|
| 10-Commissioning / Startup and Testing                     | Building Construction | 5/1/2031  | 9/30/2031 | 5.00 | 109  | — |
| 6-Equipment , Structural Steel & Building Erection, Piping | Building Construction | 10/1/2029 | 7/22/2030 | 5.00 | 211  | — |
| 7-Electrical & Instrumentation                             | Building Construction | 6/1/2030  | 4/5/2031  | 5.00 | 220  | — |
| 8-Paving   | Paving                | 6/1/2031  | 7/27/2031 | 5.00 | 40.0 | — |
| 9-Painting/Insulation                                      | Architectural Coating | 7/1/2031  | 8/26/2031 | 5.00 | 41.0 | — |
| 5-Trenching/Undergrounds                                   | Trenching             | 2/1/2030  | 4/19/2030 | 5.00 | 56.0 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name                           | Equipment Type              | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--------------------------------------|-----------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| 3-Site Preparation/<br>Rough Grading | Rubber Tired Dozers         | Diesel    | Tier 4 Final | 1.00           | 8.00          | 367        | 0.40        |
| 3-Site Preparation/<br>Rough Grading | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 3.00           | 9.00          | 107        | 0.37        |
| 4-Foundations                        | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 1.00           | 9.00          | 225        | 0.37        |
| 2-Existing Project Site<br>Demo      | Concrete/Industrial<br>Saws | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |
| 12-Decommissioning<br>Demolition     | Concrete/Industrial<br>Saws | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |
| 12-Decommissioning<br>Demolition     | Excavators                  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 45.0       | 0.38        |
| 1-Subsurface<br>Exploration          | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 4.00           | 9.00          | 107        | 0.37        |
| 3-Site Preparation/<br>Rough Grading | Excavators                  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 45.0       | 0.38        |
| 4-Foundations                        | Cranes                      | Diesel    | Tier 4 Final | 1.00           | 9.00          | 275        | 0.29        |

|  |                           |        |              |      |      |      |      |
|--|---------------------------|--------|--------------|------|------|------|------|
| 4-Foundations  | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 4-Foundations  | Generator Sets            | Diesel | Tier 4 Final | 4.00 | 9.00 | 49.0 | 0.74 |
| 4-Foundations  | Welders                   | Diesel | Tier 4 Final | 4.00 | 9.00 | 24.0 | 0.45 |
| 10-Commissioning / Startup and Testing                     | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 10-Commissioning / Startup and Testing                     | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 10-Commissioning / Startup and Testing                     | Generator Sets            | Diesel | Tier 4 Final | 3.00 | 9.00 | 49.0 | 0.74 |
| 10-Commissioning / Startup and Testing                     | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 10-Commissioning / Startup and Testing                     | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |

|                                |                           |          |              |      |      |      |      |
|--------------------------------|---------------------------|----------|--------------|------|------|------|------|
| 7-Electrical & Instrumentation | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 7-Electrical & Instrumentation | Welders                   | Diesel   | Tier 4 Final | 5.00 | 9.00 | 24.0 | 0.45 |
| 8-Paving                       | Rollers                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 125  | 0.38 |
| 9-Painting/Insulation          | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 12-Decommissioning Demolition  | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 2-Existing Project Site Demo   | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 107  | 0.37 |
| 2-Existing Project Site Demo   | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 2-Existing Project Site Demo   | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 2-Existing Project Site Demo   | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 2-Existing Project Site Demo   | Skid Steer Loaders        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 65.0 | 0.37 |
| 2-Existing Project Site Demo   | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 12-Decommissioning Demolition  | Aerial Lifts              | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 12-Decommissioning Demolition  | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 12-Decommissioning Demolition  | Forklifts                 | Diesel   | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 12-Decommissioning Demolition  | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 12-Decommissioning Demolition  | Generator Sets            | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 12-Decommissioning Demolition  | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 225  | 0.37 |

|  |                           |          |              |      |      |      |      |
|--|---------------------------|----------|--------------|------|------|------|------|
| 12-Decommissioning Demolition          | Welders                   | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.45 |
| 12-Decommissioning Demolition          | Welders                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 24.0 | 0.45 |
| 1-Subsurface Exploration               | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration               | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 1-Subsurface Exploration               | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 1-Subsurface Exploration               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 1-Subsurface Exploration               | Bore/Drill Rigs           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 300  | 0.50 |
| 3-Site Preparation/ Rough Grading      | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 3-Site Preparation/ Rough Grading      | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                          | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 4-Foundations                          | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 107  | 0.37 |
| 4-Foundations                          | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 4-Foundations                          | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations                          | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 346  | 0.38 |
| 4-Foundations                          | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 4-Foundations                          | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                          | Rubber Tired Dozers       | Diesel   | Tier 4 Final | 1.00 | 9.00 | 170  | 0.40 |
| 10-Commissioning / Startup and Testing | Welders                   | Electric | Average      | 2.00 | 9.00 | 46.0 | 0.45 |
| 10-Commissioning / Startup and Testing | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |

|  |                 |          |              |      |      |      |      |
|--|-----------------|----------|--------------|------|------|------|------|
| 10-Commissioning / Startup and Testing                     | Air Compressors | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 10-Commissioning / Startup and Testing                     | Aerial Lifts    | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes          | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts       | Diesel   | Tier 4 Final | 1.00 | 9.00 | 122  | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts       | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders         | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 84.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 67.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Excavators      | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |

|  |                    |          |              |      |      |      |      |
|--|--------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 7-Electrical & Instrumentation                             | Cranes             | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts          | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Welders            | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Aerial Lifts       | Electric | Average      | 4.00 | 9.00 | 46.0 | 0.31 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 9-Painting/Insulation                                      | Generator Sets     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 5-Trenching/Underground s                                  | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 5-Trenching/Underground s                                  | Pumps              | Diesel   | Tier 4 Final | 4.00 | 9.00 | 11.0 | 0.74 |

### 5.2.2. Mitigated

| Phase Name                        | Equipment Type            | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------------------|---------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| 3-Site Preparation/ Rough Grading | Rubber Tired Dozers       | Diesel    | Tier 4 Final | 1.00           | 8.00          | 367        | 0.40        |
| 3-Site Preparation/ Rough Grading | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Final | 3.00           | 9.00          | 107        | 0.37        |
| 4-Foundations                     | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Final | 1.00           | 9.00          | 225        | 0.37        |
| 2-Existing Project Site Demo      | Concrete/Industrial Saws  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |

|  |                           |        |              |      |      |      |      |
|--|---------------------------|--------|--------------|------|------|------|------|
| 12-Decommissioning Demolition                              | Concrete/Industrial Saws  | Diesel | Tier 4 Final | 1.00 | 9.00 | 33.0 | 0.73 |
| 12-Decommissioning Demolition                              | Excavators                | Diesel | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration                                   | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 9.00 | 107  | 0.37 |
| 3-Site Preparation/ Rough Grading                          | Excavators                | Diesel | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations  | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 4-Foundations  | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 4-Foundations  | Generator Sets            | Diesel | Tier 4 Final | 4.00 | 9.00 | 49.0 | 0.74 |
| 4-Foundations  | Welders                   | Diesel | Tier 4 Final | 4.00 | 9.00 | 24.0 | 0.45 |
| 10-Commissioning / Startup and Testing                     | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 10-Commissioning / Startup and Testing                     | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 10-Commissioning / Startup and Testing                     | Generator Sets            | Diesel | Tier 4 Final | 3.00 | 9.00 | 49.0 | 0.74 |
| 10-Commissioning / Startup and Testing                     | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 10-Commissioning / Startup and Testing                     | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |

|  |                           |          |              |      |      |      |      |
|--|---------------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders                   | Diesel   | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts                 | Diesel   | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Generator Sets            | Diesel   | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 7-Electrical & Instrumentation                             | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 7-Electrical & Instrumentation                             | Welders                   | Diesel   | Tier 4 Final | 5.00 | 9.00 | 24.0 | 0.45 |
| 8-Paving   | Rollers                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 125  | 0.38 |
| 9-Painting/Insulation                                      | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 12-Decommissioning Demolition                              | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 2-Existing Project Site Demo                               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 107  | 0.37 |
| 2-Existing Project Site Demo                               | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 2-Existing Project Site Demo                               | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 2-Existing Project Site Demo                               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 2-Existing Project Site Demo                               | Skid Steer Loaders        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 65.0 | 0.37 |
| 2-Existing Project Site Demo                               | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 12-Decommissioning Demolition                              | Aerial Lifts              | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 12-Decommissioning Demolition                              | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |

|                                  |                           |          |              |      |      |      |      |
|----------------------------------|---------------------------|----------|--------------|------|------|------|------|
| 12-Decommissioning Demolition    | Forklifts                 | Diesel   | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 12-Decommissioning Demolition    | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 12-Decommissioning Demolition    | Generator Sets            | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 12-Decommissioning Demolition    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 225  | 0.37 |
| 12-Decommissioning Demolition    | Welders                   | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.45 |
| 12-Decommissioning Demolition    | Welders                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 24.0 | 0.45 |
| 1-Subsurface Exploration         | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration         | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 1-Subsurface Exploration         | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 1-Subsurface Exploration         | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 1-Subsurface Exploration         | Bore/Drill Rigs           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 300  | 0.50 |
| 3-Site Preparation/Rough Grading | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 3-Site Preparation/Rough Grading | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 4-Foundations                    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 107  | 0.37 |
| 4-Foundations                    | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 4-Foundations                    | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations                    | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 346  | 0.38 |

|  |                     |          |              |      |      |      |      |
|--|---------------------|----------|--------------|------|------|------|------|
| 4-Foundations  | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 4-Foundations  | Off-Highway Trucks  | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations  | Rubber Tired Dozers | Diesel   | Tier 4 Final | 1.00 | 9.00 | 170  | 0.40 |
| 10-Commissioning / Startup and Testing                     | Welders             | Electric | Average      | 2.00 | 9.00 | 46.0 | 0.45 |
| 10-Commissioning / Startup and Testing                     | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 10-Commissioning / Startup and Testing                     | Air Compressors     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 10-Commissioning / Startup and Testing                     | Aerial Lifts        | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes              | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 122  | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders             | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 84.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Diesel   | Tier 4 Final | 2.00 | 9.00 | 67.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |

|  |                    |          |              |      |      |      |      |
|--|--------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 7-Electrical & Instrumentation                             | Cranes             | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts          | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Welders            | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Aerial Lifts       | Electric | Average      | 4.00 | 9.00 | 46.0 | 0.31 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 9-Painting/Insulation                                      | Generator Sets     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 5-Trenching/Underground s                                  | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 5-Trenching/Underground s                                  | Pumps              | Diesel   | Tier 4 Final | 4.00 | 9.00 | 11.0 | 0.74 |

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|------------|-----------|-----------------------|----------------|-------------|
|------------|-----------|-----------------------|----------------|-------------|

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 1-Subsurface Exploration                                   | —            | —    | —    | —             |
| 1-Subsurface Exploration                                   | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 1-Subsurface Exploration                                   | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 1-Subsurface Exploration                                   | Hauling      | 13.0 | 42.0 | HHDT          |
| 1-Subsurface Exploration                                   | Onsite truck | —    | —    | HHDT          |
| 3-Site Preparation/ Rough Grading                          | —            | —    | —    | —             |
| 3-Site Preparation/ Rough Grading                          | Worker       | 30.0 | 10.0 | LDA,LDT1,LDT2 |
| 3-Site Preparation/ Rough Grading                          | Vendor       | 10.0 | 10.0 | HHDT,MHDT     |
| 3-Site Preparation/ Rough Grading                          | Hauling      | 8.00 | 42.0 | HHDT          |
| 3-Site Preparation/ Rough Grading                          | Onsite truck | —    | —    | HHDT          |
| 4-Foundations  | —            | —    | —    | —             |
| 4-Foundations  | Worker       | 68.0 | 10.0 | LDA,LDT1,LDT2 |
| 4-Foundations  | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 4-Foundations  | Hauling      | 25.0 | 42.0 | HHDT          |
| 4-Foundations  | Onsite truck | —    | —    | HHDT          |
| 5-Trenching/Undergrounds                                   | —            | —    | —    | —             |
| 5-Trenching/Undergrounds                                   | Worker       | 46.0 | 10.0 | LDA,LDT1,LDT2 |
| 5-Trenching/Undergrounds                                   | Vendor       | 2.00 | 10.0 | HHDT,MHDT     |
| 5-Trenching/Undergrounds                                   | Hauling      | 16.0 | 42.0 | HHDT          |
| 5-Trenching/Undergrounds                                   | Onsite truck | —    | —    | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | —            | —    | —    | —             |
| 6-Equipment , Structural Steel & Building Erection, Piping | Worker       | 78.0 | 10.0 | LDA,LDT1,LDT2 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Vendor       | 22.0 | 10.0 | HHDT,MHDT     |
| 6-Equipment , Structural Steel & Building Erection, Piping | Hauling      | 0.00 | 20.0 | HHDT          |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Onsite truck | —    | —    | HHDT          |
| 7-Electrical & Instrumentation                             | —            | —    | —    | —             |
| 7-Electrical & Instrumentation                             | Worker       | 36.0 | 10.0 | LDA,LDT1,LDT2 |
| 7-Electrical & Instrumentation                             | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 7-Electrical & Instrumentation                             | Hauling      | 0.00 | 20.0 | HHDT          |
| 7-Electrical & Instrumentation                             | Onsite truck | —    | —    | HHDT          |
| 2-Existing Project Site Demo                               | —            | —    | —    | —             |
| 2-Existing Project Site Demo                               | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 2-Existing Project Site Demo                               | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 2-Existing Project Site Demo                               | Hauling      | 47.5 | 20.0 | HHDT          |
| 2-Existing Project Site Demo                               | Onsite truck | —    | —    | HHDT          |
| 8-Paving   | —            | —    | —    | —             |
| 8-Paving   | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 8-Paving   | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 8-Paving   | Hauling      | 0.00 | 20.0 | HHDT          |
| 8-Paving   | Onsite truck | —    | —    | HHDT          |
| 12-Decommissioning Demolition                              | —            | —    | —    | —             |
| 12-Decommissioning Demolition                              | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 12-Decommissioning Demolition                              | Vendor       | 18.0 | 10.0 | HHDT,MHDT     |
| 12-Decommissioning Demolition                              | Hauling      | 3.37 | 20.0 | HHDT          |
| 12-Decommissioning Demolition                              | Onsite truck | —    | —    | HHDT          |
| 10-Commissioning / Startup and Testing                     | —            | —    | —    | —             |
| 10-Commissioning / Startup and Testing                     | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 10-Commissioning / Startup and Testing                     | Vendor       | 12.0 | 10.0 | HHDT,MHDT     |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 10-Commissioning / Startup and Testing | Hauling      | 0.00 | 20.0 | HHDT          |
| 10-Commissioning / Startup and Testing | Onsite truck | —    | —    | HHDT          |
| 9-Painting/Insulation                  | —            | —    | —    | —             |
| 9-Painting/Insulation                  | Worker       | 4.00 | 10.0 | LDA,LDT1,LDT2 |
| 9-Painting/Insulation                  | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 9-Painting/Insulation                  | Hauling      | 0.00 | 20.0 | HHDT          |
| 9-Painting/Insulation                  | Onsite truck | —    | —    | HHDT          |

### 5.3.2. Mitigated

| Phase Name                        | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------------------|--------------|-----------------------|----------------|---------------|
| 1-Subsurface Exploration          | —            | —                     | —              | —             |
| 1-Subsurface Exploration          | Worker       | 28.0                  | 10.0           | LDA,LDT1,LDT2 |
| 1-Subsurface Exploration          | Vendor       | 8.00                  | 10.0           | HHDT,MHDT     |
| 1-Subsurface Exploration          | Hauling      | 13.0                  | 42.0           | HHDT          |
| 1-Subsurface Exploration          | Onsite truck | —                     | —              | HHDT          |
| 3-Site Preparation/ Rough Grading | —            | —                     | —              | —             |
| 3-Site Preparation/ Rough Grading | Worker       | 30.0                  | 10.0           | LDA,LDT1,LDT2 |
| 3-Site Preparation/ Rough Grading | Vendor       | 10.0                  | 10.0           | HHDT,MHDT     |
| 3-Site Preparation/ Rough Grading | Hauling      | 8.00                  | 42.0           | HHDT          |
| 3-Site Preparation/ Rough Grading | Onsite truck | —                     | —              | HHDT          |
| 4-Foundations                     | —            | —                     | —              | —             |
| 4-Foundations                     | Worker       | 68.0                  | 10.0           | LDA,LDT1,LDT2 |
| 4-Foundations                     | Vendor       | 16.0                  | 10.0           | HHDT,MHDT     |
| 4-Foundations                     | Hauling      | 25.0                  | 42.0           | HHDT          |
| 4-Foundations                     | Onsite truck | —                     | —              | HHDT          |
| 5-Trenching/Undergrounds          | —            | —                     | —              | —             |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 5-Trenching/Undergrounds                                   | Worker       | 46.0 | 10.0 | LDA,LDT1,LDT2 |
| 5-Trenching/Undergrounds                                   | Vendor       | 2.00 | 10.0 | HHDT,MHDT     |
| 5-Trenching/Undergrounds                                   | Hauling      | 16.0 | 42.0 | HHDT          |
| 5-Trenching/Undergrounds                                   | Onsite truck | —    | —    | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | —            | —    | —    | —             |
| 6-Equipment , Structural Steel & Building Erection, Piping | Worker       | 78.0 | 10.0 | LDA,LDT1,LDT2 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Vendor       | 22.0 | 10.0 | HHDT,MHDT     |
| 6-Equipment , Structural Steel & Building Erection, Piping | Hauling      | 0.00 | 20.0 | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | Onsite truck | —    | —    | HHDT          |
| 7-Electrical & Instrumentation                             | —            | —    | —    | —             |
| 7-Electrical & Instrumentation                             | Worker       | 36.0 | 10.0 | LDA,LDT1,LDT2 |
| 7-Electrical & Instrumentation                             | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 7-Electrical & Instrumentation                             | Hauling      | 0.00 | 20.0 | HHDT          |
| 7-Electrical & Instrumentation                             | Onsite truck | —    | —    | HHDT          |
| 2-Existing Project Site Demo                               | —            | —    | —    | —             |
| 2-Existing Project Site Demo                               | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 2-Existing Project Site Demo                               | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 2-Existing Project Site Demo                               | Hauling      | 47.5 | 20.0 | HHDT          |
| 2-Existing Project Site Demo                               | Onsite truck | —    | —    | HHDT          |
| 8-Paving   | —            | —    | —    | —             |
| 8-Paving   | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 8-Paving   | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 8-Paving   | Hauling      | 0.00 | 20.0 | HHDT          |
| 8-Paving   | Onsite truck | —    | —    | HHDT          |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 12-Decommissioning Demolition          | —            | —    | —    | —             |
| 12-Decommissioning Demolition          | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 12-Decommissioning Demolition          | Vendor       | 18.0 | 10.0 | HHDT,MHDT     |
| 12-Decommissioning Demolition          | Hauling      | 3.37 | 20.0 | HHDT          |
| 12-Decommissioning Demolition          | Onsite truck | —    | —    | HHDT          |
| 10-Commissioning / Startup and Testing | —            | —    | —    | —             |
| 10-Commissioning / Startup and Testing | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 10-Commissioning / Startup and Testing | Vendor       | 12.0 | 10.0 | HHDT,MHDT     |
| 10-Commissioning / Startup and Testing | Hauling      | 0.00 | 20.0 | HHDT          |
| 10-Commissioning / Startup and Testing | Onsite truck | —    | —    | HHDT          |
| 9-Painting/Insulation                  | —            | —    | —    | —             |
| 9-Painting/Insulation                  | Worker       | 4.00 | 10.0 | LDA,LDT1,LDT2 |
| 9-Painting/Insulation                  | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 9-Painting/Insulation                  | Hauling      | 0.00 | 20.0 | HHDT          |
| 9-Painting/Insulation                  | Onsite truck | —    | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|--|--|--|--|-----------------------------|
| 9-Painting/Insulation | 0.00                                     | 0.00                                     | 34,524                                       | 11,508                                       | 20,626                      |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name                        | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|-----------------------------------|---------------------------------|---------------------------------|----------------------|-------------------------------------|---------------------|
| 2-Existing Project Site Demo      | 0.00                            | 0.00                            | 0.00                 | 2,092                               | —                   |
| 12-Decommissioning Demolition     | 0.00                            | 0.00                            | 0.00                 | 19,000                              | —                   |
| 1-Subsurface Exploration          | —                               | 500                             | 0.00                 | 0.00                                | —                   |
| 3-Site Preparation/ Rough Grading | —                               | 1,500                           | 26.0                 | 0.00                                | —                   |
| 8-Paving                          | 0.00                            | 0.00                            | 0.00                 | 0.00                                | 7.89                |
| 5-Trenching/Undergrounds          | —                               | 10,000                          | 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%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |

## 5.7. Construction Paving

| Land Use                | Area Paved (acres) | % Asphalt |
|-------------------------|--------------------|-----------|
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Office Building | 0.00               | 0%        |
| Other Asphalt Surfaces  | 7.89               | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

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

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2029 | 1,393        | 532 | 0.03 | < 0.005 |
| 2030 | 2,581        | 532 | 0.03 | < 0.005 |
| 2032 | 345          | 532 | 0.03 | < 0.005 |
| 2031 | 1,671        | 532 | 0.03 | < 0.005 |

## 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 | 12.5                        | annual days of extreme heat                |
| Extreme Precipitation        | 5.45                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | 0.00                        | meters of inundation depth                 |
| Wildfire                     | 15.3                        | 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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 | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | 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 | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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                        | 26.8                            |
| AQ-PM                           | 29.0                            |
| AQ-DPM                          | 50.7                            |
| Drinking Water                  | 65.5                            |
| Lead Risk Housing               | 78.7                            |
| Pesticides                      | 97.0                            |
| Toxic Releases                  | 17.6                            |
| Traffic                         | 38.6                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 83.5                            |
| Groundwater                     | 89.6                            |
| Haz Waste Facilities/Generators | 88.6                            |
| Impaired Water Bodies           | 58.7                            |
| Solid Waste                     | 35.7                            |
| Sensitive Population            | —                               |
| Asthma                          | 61.2                            |
| Cardio-vascular                 | 27.2                            |

|                                 |      |
|---------------------------------|------|
| Low Birth Weights               | 58.6 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 89.7 |
| Housing                         | 82.4 |
| Linguistic                      | 74.1 |
| Poverty                         | 77.2 |
| Unemployment                    | 60.6 |

## 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          | 22.12241755                     |
| Employed               | 50.32721673                     |
| Median HI              | 32.6318491                      |
| Education              | —                               |
| Bachelor's or higher   | 25.84370589                     |
| High school enrollment | 3.387655588                     |
| Preschool enrollment   | 66.45707686                     |
| Transportation         | —                               |
| Auto Access            | 44.50147568                     |
| Active commuting       | 49.108174                       |
| Social                 | —                               |
| 2-parent households    | 84.48607725                     |
| Voting                 | 39.86911331                     |
| Neighborhood           | —                               |
| Alcohol availability   | 27.4092134                      |

|  |             |
|--|-------------|
| Park access                                  | 81.35506224 |
| Retail density                               | 61.9658668  |
| Supermarket access                           | 74.04080585 |
| Tree canopy                                  | 11.8311305  |
| Housing                                      | —           |
| Homeownership                                | 29.911459   |
| Housing habitability                         | 29.33401771 |
| Low-inc homeowner severe housing cost burden | 8.648787373 |
| Low-inc renter severe housing cost burden    | 67.81727191 |
| Uncrowded housing                            | 29.05171308 |
| Health Outcomes                              | —           |
| Insured adults                               | 6.83947132  |
| Arthritis                                    | 77.8        |
| Asthma ER Admissions                         | 39.8        |
| High Blood Pressure                          | 51.5        |
| Cancer (excluding skin)                      | 82.6        |
| Asthma                                       | 23.6        |
| Coronary Heart Disease                       | 66.7        |
| Chronic Obstructive Pulmonary Disease        | 37.6        |
| Diagnosed Diabetes                           | 54.0        |
| Life Expectancy at Birth                     | 33.7        |
| Cognitively Disabled                         | 33.5        |
| Physically Disabled                          | 36.0        |
| Heart Attack ER Admissions                   | 36.7        |
| Mental Health Not Good                       | 23.2        |
| Chronic Kidney Disease                       | 45.1        |
| Obesity                                      | 25.8        |

|                                       |      |
|---------------------------------------|------|
| Pedestrian Injuries                   | 57.0 |
| Physical Health Not Good              | 30.9 |
| Stroke                                | 64.5 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 24.0 |
| Current Smoker                        | 23.0 |
| No Leisure Time for Physical Activity | 29.0 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 10.2 |
| SLR Inundation Area                   | 0.0  |
| Children                              | 2.5  |
| Elderly                               | 92.1 |
| English Speaking                      | 15.1 |
| Foreign-born                          | 77.7 |
| Outdoor Workers                       | 4.1  |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 35.5 |
| Traffic Density                       | 42.1 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 70.5 |
| Other Decision Support                | —    |
| 2016 Voting                           | 40.0 |

### 7.3. Overall Health & Equity Scores

| Metric   | Result for Project Census Tract |
|--|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 83.0                            |

|   |      |
|---|------|
| Healthy Places Index Score for Project Location (b)                                 | 27.0 |
| 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    |
|---|------------------|
| Construction: Construction Phases         | Project Specific |
| Construction: Off-Road Equipment          | Project Specific |
| Construction: Trips and VMT               | Project specific |
| Construction: Dust From Material Movement | Project specific |

# SCG-VCM Project Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                   |
|-----------------------------|---|
| Project Name                | SCG-VCM Project                         |
| Lead Agency                 | —                                       |
| Land Use Scale              | Project/site                            |
| Analysis Level for Defaults | County                                  |
| Windspeed (m/s)             | 3.20                                    |
| Precipitation (days)        | 2.20                                    |
| Location                    | 1555 N Olive St, Ventura, CA 93001, USA |
| County                      | Ventura                                 |
| City                        | Ventura                                 |
| Air District                | Ventura County APCD                     |
| Air Basin                   | South Central Coast                     |
| TAZ                         | 3406                                    |
| EDFZ                        | 8                                       |
| Electric Utility            | Southern California Edison              |
| Gas Utility                 | Southern California Gas                 |

## 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 | 5.46 | 1000sqft | 0.13        | 5,459                 | 0.00                   | —                              | —          | —           |
| General Heavy Industry | 10.5 | 1000sqft | 0.24        | 10,458                | 0.00                   | —                              | —          | —           |

|                         |      |          |      |       |      |   |   |   |
|-------------------------|------|----------|------|-------|------|---|---|---|
| General Heavy Industry  | 2.02 | 1000sqft | 0.05 | 2,016 | 0.00 | — | — | — |
| General Heavy Industry  | 0.44 | 1000sqft | 0.01 | 442   | 0.00 | — | — | — |
| General Office Building | 4.64 | 1000sqft | 0.11 | 4,641 | 0.00 | — | — | — |
| Other Asphalt Surfaces  | 344  | 1000sqft | 7.89 | 0.00  | 0.00 | — | — | — |

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

| Sector       | #      | Measure Title                          |
|--------------|--------|--|
| Construction | C-2*   | Limit Heavy-Duty Diesel Vehicle Idling |
| Construction | C-10-C | Water Unpaved Construction Roads       |
| Construction | C-11   | Limit Vehicle Speeds on Unpaved Roads  |
| Construction | C-12   | Sweep Paved Roads                      |

\* Qualitative or supporting measure. Emission reductions not included in the mitigated emissions results.

## 2. Emissions Summary

### 2.1. Construction Emissions Compared Against Thresholds

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

| Un/Mit.             | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Unmit.              | 5.90 | 29.1 | 70.9 | 0.27 | 0.48  | 7.52  | 7.94  | 0.48   | 2.03   | 2.51   | —    | 34,027 | 34,027 | 0.83 | 3.76 | 44.6 | 35,213 |
| Mit.                | 5.90 | 29.1 | 70.9 | 0.27 | 0.48  | 7.52  | 7.94  | 0.48   | 2.03   | 2.51   | —    | 34,027 | 34,027 | 0.83 | 3.76 | 44.6 | 35,213 |
| % Reduced           | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |      |      |      |      |      |      |      |      |      |      |   |        |        |      |      |      |        |
|---------------------|------|------|------|------|------|------|------|------|------|------|---|--------|--------|------|------|------|--------|
| Daily, Winter (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 2.40 | 52.1 | 95.0 | 0.49 | 0.84 | 12.7 | 13.5 | 0.84 | 3.49 | 4.33 | — | 59,713 | 59,713 | 1.46 | 6.01 | 1.78 | 61,542 |
| Mit.                | 2.40 | 52.1 | 95.0 | 0.49 | 0.84 | 12.7 | 13.5 | 0.84 | 3.49 | 4.33 | — | 59,713 | 59,713 | 1.46 | 6.01 | 1.78 | 61,542 |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Average Daily (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.89 | 13.3 | 37.2 | 0.15 | 0.22 | 3.12 | 3.34 | 0.22 | 0.88 | 1.10 | — | 16,168 | 16,168 | 0.49 | 1.48 | 7.58 | 16,494 |
| Mit.                | 0.89 | 13.3 | 37.2 | 0.15 | 0.22 | 3.12 | 3.34 | 0.22 | 0.88 | 1.10 | — | 16,168 | 16,168 | 0.49 | 1.48 | 7.58 | 16,494 |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Annual (Max)        | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |
| Unmit.              | 0.16 | 2.43 | 6.79 | 0.03 | 0.04 | 0.57 | 0.61 | 0.04 | 0.16 | 0.20 | — | 2,677  | 2,677  | 0.08 | 0.25 | 1.25 | 2,731  |
| Mit.                | 0.16 | 2.43 | 6.79 | 0.03 | 0.04 | 0.57 | 0.61 | 0.04 | 0.16 | 0.20 | — | 2,677  | 2,677  | 0.08 | 0.25 | 1.25 | 2,731  |
| % Reduced           | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | — | —      | —      | —    | —    | —    | —      |

## 2.2. Construction Emissions by Year, Unmitigated

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

| Year                 | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|----------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|---------|---------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| 2029                 | 1.43 | 29.1 | 65.5 | 0.27 | 0.48  | 7.52  | 7.94  | 0.48   | 2.03   | 2.51   | —    | 34,027 | 34,027 | 0.77    | 3.76    | 44.6 | 35,213 |
| 2030                 | 1.65 | 22.7 | 70.9 | 0.22 | 0.35  | 5.37  | 5.72  | 0.35   | 1.46   | 1.82   | —    | 26,430 | 26,430 | 0.83    | 2.41    | 27.9 | 27,194 |
| 2031                 | 5.90 | 3.47 | 30.7 | 0.10 | 0.12  | 0.48  | 0.54  | 0.12   | 0.12   | 0.21   | —    | 10,006 | 10,006 | 0.39    | 0.14    | 1.33 | 10,058 |
| 2032                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 2.82   | 2.82   | < 0.005 | < 0.005 | —    | 2.83   |

|                      |      |      |      |         |         |      |      |         |         |      |   |        |        |         |         |      |        |
|----------------------|------|------|------|---------|---------|------|------|---------|---------|------|---|--------|--------|---------|---------|------|--------|
| Daily - Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 2.15 | 37.3 | 89.9 | 0.38    | 0.62    | 8.05 | 8.67 | 0.62    | 2.21    | 2.83 | — | 45,393 | 45,393 | 1.21    | 3.96    | 1.23 | 46,606 |
| 2030                 | 2.40 | 52.1 | 95.0 | 0.49    | 0.84    | 12.7 | 13.5 | 0.84    | 3.49    | 4.33 | — | 59,713 | 59,713 | 1.46    | 6.01    | 1.78 | 61,542 |
| 2031                 | 0.68 | 3.50 | 30.7 | 0.10    | 0.12    | 0.39 | 0.51 | 0.12    | 0.10    | 0.21 | — | 9,996  | 9,996  | 0.39    | 0.15    | 0.03 | 10,050 |
| 2032                 | 0.32 | 3.88 | 12.6 | 0.04    | 0.05    | 0.60 | 0.65 | 0.05    | 0.13    | 0.18 | — | 3,951  | 3,951  | 0.14    | 0.13    | 0.03 | 3,994  |
| Average Daily        | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.67 | 13.3 | 29.2 | 0.13    | 0.22    | 3.12 | 3.34 | 0.22    | 0.88    | 1.10 | — | 15,399 | 15,399 | 0.39    | 1.48    | 7.58 | 15,858 |
| 2030                 | 0.89 | 11.3 | 37.2 | 0.15    | 0.21    | 2.29 | 2.51 | 0.21    | 0.62    | 0.83 | — | 16,168 | 16,168 | 0.49    | 1.04    | 5.06 | 16,494 |
| 2031                 | 0.85 | 1.18 | 10.2 | 0.04    | 0.04    | 0.18 | 0.22 | 0.04    | 0.04    | 0.08 | — | 3,501  | 3,501  | 0.14    | 0.06    | 0.24 | 3,522  |
| 2032                 | 0.06 | 0.69 | 2.25 | 0.01    | 0.01    | 0.11 | 0.12 | 0.01    | 0.02    | 0.03 | — | 704    | 704    | 0.03    | 0.02    | 0.10 | 711    |
| Annual               | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.12 | 2.43 | 5.32 | 0.02    | 0.04    | 0.57 | 0.61 | 0.04    | 0.16    | 0.20 | — | 2,549  | 2,549  | 0.06    | 0.25    | 1.25 | 2,625  |
| 2030                 | 0.16 | 2.06 | 6.79 | 0.03    | 0.04    | 0.42 | 0.46 | 0.04    | 0.11    | 0.15 | — | 2,677  | 2,677  | 0.08    | 0.17    | 0.84 | 2,731  |
| 2031                 | 0.15 | 0.22 | 1.86 | 0.01    | 0.01    | 0.03 | 0.04 | 0.01    | 0.01    | 0.02 | — | 580    | 580    | 0.02    | 0.01    | 0.04 | 583    |
| 2032                 | 0.01 | 0.13 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 117    | 117    | < 0.005 | < 0.005 | 0.02 | 118    |

### 2.3. Construction Emissions by Year, Mitigated

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

| Year                 | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4     | N2O     | R    | CO2e   |
|----------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|---------|---------|------|--------|
| Daily - Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —       | —       | —    | —      |
| 2029                 | 1.43 | 29.1 | 65.5 | 0.27 | 0.48  | 7.52  | 7.94  | 0.48   | 2.03   | 2.51   | —    | 34,027 | 34,027 | 0.77    | 3.76    | 44.6 | 35,213 |
| 2030                 | 1.65 | 22.7 | 70.9 | 0.22 | 0.35  | 5.37  | 5.72  | 0.35   | 1.46   | 1.82   | —    | 26,430 | 26,430 | 0.83    | 2.41    | 27.9 | 27,194 |
| 2031                 | 5.90 | 3.47 | 30.7 | 0.10 | 0.12  | 0.48  | 0.54  | 0.12   | 0.12   | 0.21   | —    | 10,006 | 10,006 | 0.39    | 0.14    | 1.33 | 10,058 |
| 2032                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | 2.82   | 2.82   | < 0.005 | < 0.005 | —    | 2.83   |

|                      |      |      |      |         |         |      |      |         |         |      |   |        |        |         |         |      |        |
|----------------------|------|------|------|---------|---------|------|------|---------|---------|------|---|--------|--------|---------|---------|------|--------|
| Daily - Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 2.15 | 37.3 | 89.9 | 0.38    | 0.62    | 8.05 | 8.67 | 0.62    | 2.21    | 2.83 | — | 45,393 | 45,393 | 1.21    | 3.96    | 1.23 | 46,606 |
| 2030                 | 2.40 | 52.1 | 95.0 | 0.49    | 0.84    | 12.7 | 13.5 | 0.84    | 3.49    | 4.33 | — | 59,713 | 59,713 | 1.46    | 6.01    | 1.78 | 61,542 |
| 2031                 | 0.68 | 3.50 | 30.7 | 0.10    | 0.12    | 0.39 | 0.51 | 0.12    | 0.10    | 0.21 | — | 9,996  | 9,996  | 0.39    | 0.15    | 0.03 | 10,050 |
| 2032                 | 0.32 | 3.88 | 12.6 | 0.04    | 0.05    | 0.60 | 0.65 | 0.05    | 0.13    | 0.18 | — | 3,951  | 3,951  | 0.14    | 0.13    | 0.03 | 3,994  |
| Average Daily        | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.67 | 13.3 | 29.2 | 0.13    | 0.22    | 3.12 | 3.34 | 0.22    | 0.88    | 1.10 | — | 15,399 | 15,399 | 0.39    | 1.48    | 7.58 | 15,858 |
| 2030                 | 0.89 | 11.3 | 37.2 | 0.15    | 0.21    | 2.29 | 2.51 | 0.21    | 0.62    | 0.83 | — | 16,168 | 16,168 | 0.49    | 1.04    | 5.06 | 16,494 |
| 2031                 | 0.85 | 1.18 | 10.2 | 0.04    | 0.04    | 0.18 | 0.22 | 0.04    | 0.04    | 0.08 | — | 3,501  | 3,501  | 0.14    | 0.06    | 0.24 | 3,522  |
| 2032                 | 0.06 | 0.69 | 2.25 | 0.01    | 0.01    | 0.11 | 0.12 | 0.01    | 0.02    | 0.03 | — | 704    | 704    | 0.03    | 0.02    | 0.10 | 711    |
| Annual               | —    | —    | —    | —       | —       | —    | —    | —       | —       | —    | — | —      | —      | —       | —       | —    | —      |
| 2029                 | 0.12 | 2.43 | 5.32 | 0.02    | 0.04    | 0.57 | 0.61 | 0.04    | 0.16    | 0.20 | — | 2,549  | 2,549  | 0.06    | 0.25    | 1.25 | 2,625  |
| 2030                 | 0.16 | 2.06 | 6.79 | 0.03    | 0.04    | 0.42 | 0.46 | 0.04    | 0.11    | 0.15 | — | 2,677  | 2,677  | 0.08    | 0.17    | 0.84 | 2,731  |
| 2031                 | 0.15 | 0.22 | 1.86 | 0.01    | 0.01    | 0.03 | 0.04 | 0.01    | 0.01    | 0.02 | — | 580    | 580    | 0.02    | 0.01    | 0.04 | 583    |
| 2032                 | 0.01 | 0.13 | 0.41 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 117    | 117    | < 0.005 | < 0.005 | 0.02 | 118    |

### 3. Construction Emissions Details

#### 3.1. Demolition (2029) - Unmitigated

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

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

|                     |         |      |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.46    | 5.35 | 24.0 | 0.04    | 0.08    | —    | 0.08    | 0.08    | —       | 0.08    | — | 4,394 | 4,394 | 0.18    | 0.04    | —    | 4,409 |
| Demolition          | —       | —    | —    | —       | —       | 2.69 | 2.69    | —       | 0.41    | 0.41    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01    | 0.16 | 0.72 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 132   | 132   | 0.01    | < 0.005 | —    | 133   |
| Demolition          | —       | —    | —    | —       | —       | 0.08 | 0.08    | —       | 0.01    | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | < 0.005 | 0.03 | 0.13 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 21.9  | 21.9  | < 0.005 | < 0.005 | —    | 22.0  |
| Demolition          | —       | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.07    | 0.04 | 0.64 | 0.00    | 0.00    | 0.16 | 0.16    | 0.00    | 0.04    | 0.04    | — | 149   | 149   | < 0.005 | 0.01    | 0.43 | 152   |
| Vendor              | 0.01    | 0.25 | 0.08 | < 0.005 | < 0.005 | 0.07 | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43 | 232   |
| Hauling             | 0.05    | 3.67 | 0.98 | 0.02    | 0.04    | 0.86 | 0.90    | 0.04    | 0.24    | 0.28    | — | 2,988 | 2,988 | 0.06    | 0.47    | 5.46 | 3,136 |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.34 | 4.34 | < 0.005 | < 0.005 | 0.01    | 4.40 |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.67 | 6.67 | < 0.005 | < 0.005 | 0.01    | 6.98 |
| Hauling             | < 0.005 | 0.11    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 90.1 | 90.1 | < 0.005 | 0.01    | 0.07    | 94.4 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.72 | 0.72 | < 0.005 | < 0.005 | < 0.005 | 0.73 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.10 | 1.10 | < 0.005 | < 0.005 | < 0.005 | 1.16 |
| Hauling             | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.9 | 14.9 | < 0.005 | < 0.005 | 0.01    | 15.6 |

### 3.2. Demolition (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.46 | 5.35 | 24.0 | 0.04 | 0.08  | —     | 0.08  | 0.08   | —      | 0.08   | —    | 4,394 | 4,394 | 0.18 | 0.04 | —    | 4,409 |
| Demolition          | —    | —    | —    | —    | —     | 2.69  | 2.69  | —      | 0.41   | 0.41   | —    | —     | —     | —    | —    | —    | —     |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Road Equipment  | 0.01    | 0.16    | 0.72    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 132   | 132   | 0.01    | < 0.005 | —       | 133   |
| Demolition          | —       | —       | —       | —       | —       | 0.08    | 0.08    | —       | 0.01    | 0.01    | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Off-Road Equipment  | < 0.005 | 0.03    | 0.13    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 21.9  | 21.9  | < 0.005 | < 0.005 | —       | 22.0  |
| Demolition          | —       | —       | —       | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | — | —     | —     | —       | —       | —       | —     |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.07    | 0.04    | 0.64    | 0.00    | 0.00    | 0.16    | 0.16    | 0.00    | 0.04    | 0.04    | — | 149   | 149   | < 0.005 | 0.01    | 0.43    | 152   |
| Vendor              | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221   | 221   | < 0.005 | 0.03    | 0.43    | 232   |
| Hauling             | 0.05    | 3.67    | 0.98    | 0.02    | 0.04    | 0.86    | 0.90    | 0.04    | 0.24    | 0.28    | — | 2,988 | 2,988 | 0.06    | 0.47    | 5.46    | 3,136 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 4.34  | 4.34  | < 0.005 | < 0.005 | 0.01    | 4.40  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.67  | 6.67  | < 0.005 | < 0.005 | 0.01    | 6.98  |
| Hauling             | < 0.005 | 0.11    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 90.1  | 90.1  | < 0.005 | 0.01    | 0.07    | 94.4  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 0.72  | 0.72  | < 0.005 | < 0.005 | < 0.005 | 0.73  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.10  | 1.10  | < 0.005 | < 0.005 | < 0.005 | 1.16  |
| Hauling             | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 14.9  | 14.9  | < 0.005 | < 0.005 | 0.01    | 15.6  |

### 3.3. Demolition (2032) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|---------|---------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24 | 3.09 | 11.8 | 0.03    | 0.04    | —     | 0.04    | 0.04    | —       | 0.04    | —    | 3,130 | 3,130 | 0.13    | 0.03    | —    | 3,141 |
| Demolition          | —    | —    | —    | —       | —       | 0.19  | 0.19    | —       | 0.03    | 0.03    | —    | —     | —     | —       | —       | —    | —     |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04 | 0.55 | 2.09 | 0.01    | 0.01    | —     | 0.01    | 0.01    | —       | 0.01    | —    | 557   | 557   | 0.02    | < 0.005 | —    | 559   |
| Demolition          | —    | —    | —    | —       | —       | 0.03  | 0.03    | —       | 0.01    | 0.01    | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.10 | 0.38 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —       | < 0.005 | —    | 92.3  | 92.3  | < 0.005 | < 0.005 | —    | 92.6  |
| Demolition          | —    | —    | —    | —       | —       | 0.01  | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —     | —       | —       | —    | —     |
| Onsite truck        | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —       | —       | —    | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.07    | 0.05    | 0.65    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 173  | 173  | < 0.005 | 0.01    | 0.01    | 176  |
| Vendor              | 0.01    | 0.50    | 0.18    | < 0.005 | < 0.005 | 0.15    | 0.15    | < 0.005 | 0.04    | 0.05    | — | 451  | 451  | 0.01    | 0.07    | 0.02    | 471  |
| Hauling             | < 0.005 | 0.24    | 0.07    | < 0.005 | < 0.005 | 0.06    | 0.06    | < 0.005 | 0.02    | 0.02    | — | 194  | 194  | < 0.005 | 0.03    | 0.01    | 203  |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | 0.01    | 0.11    | 0.00    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | — | 31.1 | 31.1 | < 0.005 | < 0.005 | 0.03    | 31.6 |
| Vendor              | < 0.005 | 0.09    | 0.03    | < 0.005 | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 80.3 | 80.3 | < 0.005 | 0.01    | 0.05    | 83.9 |
| Hauling             | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 34.5 | 34.5 | < 0.005 | 0.01    | 0.02    | 36.2 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 5.15 | 5.15 | < 0.005 | < 0.005 | < 0.005 | 5.23 |
| Vendor              | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 13.3 | 13.3 | < 0.005 | < 0.005 | 0.01    | 13.9 |
| Hauling             | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.72 | 5.72 | < 0.005 | < 0.005 | < 0.005 | 5.99 |

### 3.4. Demolition (2032) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 0.24 | 3.09 | 11.8 | 0.03 | 0.04  | —     | 0.04  | 0.04   | —      | 0.04   | —    | 3,130 | 3,130 | 0.13 | 0.03 | — | 3,141 |

|                     |         |      |      |         |         |      |         |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Demolition          | —       | —    | —    | —       | —       | 0.19 | 0.19    | —       | 0.03    | 0.03    | — | —    | —    | —       | —       | —    | —    |
| 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 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.04    | 0.55 | 2.09 | 0.01    | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 557  | 557  | 0.02    | < 0.005 | —    | 559  |
| Demolition          | —       | —    | —    | —       | —       | 0.03 | 0.03    | —       | 0.01    | 0.01    | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.01    | 0.10 | 0.38 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 92.3 | 92.3 | < 0.005 | < 0.005 | —    | 92.6 |
| Demolition          | —       | —    | —    | —       | —       | 0.01 | 0.01    | —       | < 0.005 | < 0.005 | — | —    | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.07    | 0.05 | 0.65 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05    | 0.05    | — | 173  | 173  | < 0.005 | 0.01    | 0.01 | 176  |
| Vendor              | 0.01    | 0.50 | 0.18 | < 0.005 | < 0.005 | 0.15 | 0.15    | < 0.005 | 0.04    | 0.05    | — | 451  | 451  | 0.01    | 0.07    | 0.02 | 471  |
| Hauling             | < 0.005 | 0.24 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06    | < 0.005 | 0.02    | 0.02    | — | 194  | 194  | < 0.005 | 0.03    | 0.01 | 203  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.01    | 0.01 | 0.11 | 0.00    | 0.00    | 0.04 | 0.04    | 0.00    | 0.01    | 0.01    | — | 31.1 | 31.1 | < 0.005 | < 0.005 | 0.03 | 31.6 |
| Vendor              | < 0.005 | 0.09 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 80.3 | 80.3 | < 0.005 | 0.01    | 0.05 | 83.9 |

|         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Hauling | < 0.005 | 0.04    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 34.5 | 34.5 | < 0.005 | 0.01    | 0.02    | 36.2 |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 5.15 | 5.15 | < 0.005 | < 0.005 | < 0.005 | 5.23 |
| Vendor  | < 0.005 | 0.02    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 13.3 | 13.3 | < 0.005 | < 0.005 | 0.01    | 13.9 |
| Hauling | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 5.72 | 5.72 | < 0.005 | < 0.005 | < 0.005 | 5.99 |

### 3.5. Site Preparation (2029) - Unmitigated

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

| Location                    | ROG  | NOx  | CO   | SO2  | PM10E | PM10D   | PM10T   | PM2.5E | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|-----------------------------|------|------|------|------|-------|---------|---------|--------|---------|---------|------|-------|-------|------|------|------|-------|
| Onsite                      | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 0.64 | 4.12 | 36.7 | 0.06 | 0.13  | —       | 0.13    | 0.13   | —       | 0.13    | —    | 6,660 | 6,660 | 0.27 | 0.05 | —    | 6,683 |
| Dust From Material Movement | —    | —    | —    | —    | —     | < 0.005 | < 0.005 | —      | < 0.005 | < 0.005 | —    | —     | —     | —    | —    | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00 | 0.00 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Average Daily               | —    | —    | —    | —    | —     | —       | —       | —      | —       | —       | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment          | 0.08 | 0.52 | 4.62 | 0.01 | 0.02  | —       | 0.02    | 0.02   | —       | 0.02    | —    | 839   | 839   | 0.03 | 0.01 | —    | 842   |
| Dust From Material Movement | —    | —    | —    | —    | —     | < 0.005 | < 0.005 | —      | < 0.005 | < 0.005 | —    | —     | —     | —    | —    | —    | —     |

|                             |         |         |         |         |         |         |         |         |         |         |   |        |        |         |         |         |        |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Off-Road Equipment          | 0.01    | 0.09    | 0.84    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 139    | 139    | 0.01    | < 0.005 | —       | 139    |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —      | —      | —       | —       | —       | —      |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.09    | 0.05    | 0.82    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 190    | 190    | < 0.005 | 0.01    | 0.55    | 193    |
| Vendor                      | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221    | 221    | < 0.005 | 0.03    | 0.43    | 232    |
| Hauling                     | 0.09    | 12.3    | 2.25    | 0.09    | 0.17    | 3.48    | 3.65    | 0.17    | 0.98    | 1.15    | — | 11,817 | 11,817 | 0.17    | 1.87    | 22.1    | 12,401 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.01    | 0.01    | 0.10    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 23.1   | 23.1   | < 0.005 | < 0.005 | 0.03    | 23.4   |
| Vendor                      | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 27.9   | 27.9   | < 0.005 | < 0.005 | 0.02    | 29.2   |
| Hauling                     | 0.01    | 1.62    | 0.28    | 0.01    | 0.02    | 0.44    | 0.46    | 0.02    | 0.12    | 0.14    | — | 1,489  | 1,489  | 0.02    | 0.24    | 1.20    | 1,561  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.82   | 3.82   | < 0.005 | < 0.005 | < 0.005 | 3.88   |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.62   | 4.62   | < 0.005 | < 0.005 | < 0.005 | 4.83   |
| Hauling                     | < 0.005 | 0.30    | 0.05    | < 0.005 | < 0.005 | 0.08    | 0.08    | < 0.005 | 0.02    | 0.03    | — | 247    | 247    | < 0.005 | 0.04    | 0.20    | 258    |

### 3.6. Site Preparation (2029) - Mitigated

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

| Location                    | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|-----------------------------|------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|-------|------|---------|------|-------|
| Onsite                      | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max)         | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.64 | 4.12 | 36.7 | 0.06    | 0.13    | —       | 0.13    | 0.13    | —       | 0.13    | —    | 6,660 | 6,660 | 0.27 | 0.05    | —    | 6,683 |
| Dust From Material Movement | —    | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max)         | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Average Daily               | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.08 | 0.52 | 4.62 | 0.01    | 0.02    | —       | 0.02    | 0.02    | —       | 0.02    | —    | 839   | 839   | 0.03 | 0.01    | —    | 842   |
| Dust From Material Movement | —    | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —     | —    | —       | —    | —     |
| Onsite truck                | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00  | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual                      | —    | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment          | 0.01 | 0.09 | 0.84 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 139   | 139   | 0.01 | < 0.005 | —    | 139   |

|                             |         |         |         |         |         |         |         |         |         |         |   |        |        |         |         |         |        |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —      | —      | —       | —       | —       | —      |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.09    | 0.05    | 0.82    | 0.00    | 0.00    | 0.20    | 0.20    | 0.00    | 0.05    | 0.05    | — | 190    | 190    | < 0.005 | 0.01    | 0.55    | 193    |
| Vendor                      | 0.01    | 0.25    | 0.08    | < 0.005 | < 0.005 | 0.07    | 0.07    | < 0.005 | 0.02    | 0.02    | — | 221    | 221    | < 0.005 | 0.03    | 0.43    | 232    |
| Hauling                     | 0.09    | 12.3    | 2.25    | 0.09    | 0.17    | 3.48    | 3.65    | 0.17    | 0.98    | 1.15    | — | 11,817 | 11,817 | 0.17    | 1.87    | 22.1    | 12,401 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.01    | 0.01    | 0.10    | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | 0.01    | 0.01    | — | 23.1   | 23.1   | < 0.005 | < 0.005 | 0.03    | 23.4   |
| Vendor                      | < 0.005 | 0.03    | 0.01    | < 0.005 | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 27.9   | 27.9   | < 0.005 | < 0.005 | 0.02    | 29.2   |
| Hauling                     | 0.01    | 1.62    | 0.28    | 0.01    | 0.02    | 0.44    | 0.46    | 0.02    | 0.12    | 0.14    | — | 1,489  | 1,489  | 0.02    | 0.24    | 1.20    | 1,561  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | < 0.005 | < 0.005 | 0.02    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 3.82   | 3.82   | < 0.005 | < 0.005 | < 0.005 | 3.88   |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 4.62   | 4.62   | < 0.005 | < 0.005 | < 0.005 | 4.83   |
| Hauling                     | < 0.005 | 0.30    | 0.05    | < 0.005 | < 0.005 | 0.08    | 0.08    | < 0.005 | 0.02    | 0.03    | — | 247    | 247    | < 0.005 | 0.04    | 0.20    | 258    |

### 3.7. Grading (2029) - Unmitigated

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

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

|                             |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|-----------------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.47    | 3.20 | 26.6 | 0.04    | 0.09    | —    | 0.09    | 0.09    | —    | 0.09    | — | 4,824 | 4,824 | 0.20    | 0.04    | —    | 4,841 |
| Dust From Material Movement | —       | —    | —    | —       | —       | 2.56 | 2.56    | —       | 1.31 | 1.31    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.02    | 0.14 | 1.17 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 211   | 211   | 0.01    | < 0.005 | —    | 212   |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.11 | 0.11    | —       | 0.06 | 0.06    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.03 | 0.21 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 35.0  | 35.0  | < 0.005 | < 0.005 | —    | 35.1  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.02 | 0.02    | —       | 0.01 | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |

|                     |         |         |         |         |         |         |         |         |         |         |   |       |       |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | 0.10    | 0.06    | 0.88    | 0.00    | 0.00    | 0.21    | 0.21    | 0.00    | 0.05    | 0.05    | — | 204   | 204   | < 0.005 | 0.01    | 0.59    | 207   |
| Vendor              | 0.01    | 0.31    | 0.10    | < 0.005 | < 0.005 | 0.08    | 0.09    | < 0.005 | 0.02    | 0.03    | — | 277   | 277   | < 0.005 | 0.04    | 0.53    | 290   |
| Hauling             | 0.06    | 7.58    | 1.38    | 0.05    | 0.10    | 2.14    | 2.25    | 0.10    | 0.60    | 0.71    | — | 7,272 | 7,272 | 0.11    | 1.15    | 13.6    | 7,631 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.04    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.60  | 8.60  | < 0.005 | < 0.005 | 0.01    | 8.73  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.1  | 12.1  | < 0.005 | < 0.005 | 0.01    | 12.7  |
| Hauling             | < 0.005 | 0.35    | 0.06    | < 0.005 | < 0.005 | 0.09    | 0.10    | < 0.005 | 0.03    | 0.03    | — | 319   | 319   | < 0.005 | 0.05    | 0.26    | 334   |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —     | —     | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.42  | 1.42  | < 0.005 | < 0.005 | < 0.005 | 1.45  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.01  | 2.01  | < 0.005 | < 0.005 | < 0.005 | 2.10  |
| Hauling             | < 0.005 | 0.06    | 0.01    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 52.8  | 52.8  | < 0.005 | 0.01    | 0.04    | 55.3  |

### 3.8. Grading (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|---|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | — | —     |
| Off-Road Equipment  | 0.47 | 3.20 | 26.6 | 0.04 | 0.09  | —     | 0.09  | 0.09   | —      | 0.09   | —    | 4,824 | 4,824 | 0.20 | 0.04 | — | 4,841 |

|                             |         |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|-----------------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Dust From Material Movement | —       | —    | —    | —       | —       | 2.56 | 2.56    | —       | 1.31 | 1.31    | — | —     | —     | —       | —       | —    | —     |
| 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  |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily               | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | 0.02    | 0.14 | 1.17 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 211   | 211   | 0.01    | < 0.005 | —    | 212   |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.11 | 0.11    | —       | 0.06 | 0.06    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.03 | 0.21 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 35.0  | 35.0  | < 0.005 | < 0.005 | —    | 35.1  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.02 | 0.02    | —       | 0.01 | 0.01    | — | —     | —     | —       | —       | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Offsite                     | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker                      | 0.10    | 0.06 | 0.88 | 0.00    | 0.00    | 0.21 | 0.21    | 0.00    | 0.05 | 0.05    | — | 204   | 204   | < 0.005 | 0.01    | 0.59 | 207   |
| Vendor                      | 0.01    | 0.31 | 0.10 | < 0.005 | < 0.005 | 0.08 | 0.09    | < 0.005 | 0.02 | 0.03    | — | 277   | 277   | < 0.005 | 0.04    | 0.53 | 290   |
| Hauling                     | 0.06    | 7.58 | 1.38 | 0.05    | 0.10    | 2.14 | 2.25    | 0.10    | 0.60 | 0.71    | — | 7,272 | 7,272 | 0.11    | 1.15    | 13.6 | 7,631 |

|                     |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.04    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.60 | 8.60 | < 0.005 | < 0.005 | 0.01    | 8.73 |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.1 | 12.1 | < 0.005 | < 0.005 | 0.01    | 12.7 |
| Hauling             | < 0.005 | 0.35    | 0.06    | < 0.005 | < 0.005 | 0.09    | 0.10    | < 0.005 | 0.03    | 0.03    | — | 319  | 319  | < 0.005 | 0.05    | 0.26    | 334  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 1.42 | 1.42 | < 0.005 | < 0.005 | < 0.005 | 1.45 |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.01 | 2.01 | < 0.005 | < 0.005 | < 0.005 | 2.10 |
| Hauling             | < 0.005 | 0.06    | 0.01    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 52.8 | 52.8 | < 0.005 | 0.01    | 0.04    | 55.3 |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08 | —    | 10,430 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08 | —    | 10,430 |
| 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   |

|                     |         |      |      |         |         |      |      |         |      |      |   |        |        |         |         |      |        |
|---------------------|---------|------|------|---------|---------|------|------|---------|------|------|---|--------|--------|---------|---------|------|--------|
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.23    | 1.44 | 13.0 | 0.03    | 0.05    | —    | 0.05 | 0.05    | —    | 0.05 | — | 3,112  | 3,112  | 0.13    | 0.03    | —    | 3,123  |
| 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   |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.04    | 0.26 | 2.37 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | — | 515    | 515    | 0.02    | < 0.005 | —    | 517    |
| 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   |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.23    | 0.13 | 1.99 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11 | 0.11 | — | 462    | 462    | 0.01    | 0.02    | 1.33 | 469    |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 443    | 443    | 0.01    | 0.07    | 0.85 | 463    |
| Hauling             | 0.18    | 23.7 | 4.32 | 0.16    | 0.33    | 6.70 | 7.02 | 0.33    | 1.88 | 2.20 | — | 22,725 | 22,725 | 0.33    | 3.60    | 42.5 | 23,847 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.17 | 1.89 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11 | 0.11 | — | 442    | 442    | 0.01    | 0.02    | 0.03 | 448    |
| Vendor              | 0.01    | 0.51 | 0.17 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 443    | 443    | 0.01    | 0.07    | 0.02 | 463    |
| Hauling             | 0.18    | 24.5 | 4.33 | 0.16    | 0.33    | 6.70 | 7.02 | 0.33    | 1.88 | 2.20 | — | 22,726 | 22,726 | 0.33    | 3.60    | 1.10 | 23,807 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.06    | 0.04 | 0.56 | 0.00    | 0.00    | 0.14 | 0.14 | 0.00    | 0.03 | 0.03 | — | 133    | 133    | < 0.005 | 0.01    | 0.17 | 135    |
| Vendor              | < 0.005 | 0.15 | 0.05 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 133    | 133    | < 0.005 | 0.02    | 0.11 | 139    |
| Hauling             | 0.05    | 7.39 | 1.29 | 0.05    | 0.10    | 2.00 | 2.10 | 0.10    | 0.56 | 0.66 | — | 6,804  | 6,804  | 0.10    | 1.08    | 5.48 | 7,133  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.01    | 0.01 | 0.10 | 0.00    | 0.00    | 0.03 | 0.03 | 0.00    | 0.01 | 0.01 | — | 22.1   | 22.1   | < 0.005 | < 0.005 | 0.03 | 22.4   |

|         |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Vendor  | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.0  | 22.0  | < 0.005 | < 0.005 | 0.02 | 23.0  |
| Hauling | 0.01    | 1.35 | 0.24 | 0.01    | 0.02    | 0.37 | 0.38 | 0.02    | 0.10    | 0.12    | — | 1,127 | 1,127 | 0.02    | 0.18    | 0.91 | 1,181 |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10 | 0.15  | —     | 0.15  | 0.15   | —      | 0.15   | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.23 | 1.44 | 13.0 | 0.03 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 3,112  | 3,112  | 0.13 | 0.03    | —    | 3,123  |
| 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   |
| Annual              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.04 | 0.26 | 2.37 | 0.01 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 515    | 515    | 0.02 | < 0.005 | —    | 517    |
| 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   |

|                     |         |      |      |         |         |      |      |         |         |         |   |        |        |         |         |      |        |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.23    | 0.13 | 1.99 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11    | 0.11    | — | 462    | 462    | 0.01    | 0.02    | 1.33 | 469    |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 443    | 443    | 0.01    | 0.07    | 0.85 | 463    |
| Hauling             | 0.18    | 23.7 | 4.32 | 0.16    | 0.33    | 6.70 | 7.02 | 0.33    | 1.88    | 2.20    | — | 22,725 | 22,725 | 0.33    | 3.60    | 42.5 | 23,847 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.21    | 0.17 | 1.89 | 0.00    | 0.00    | 0.48 | 0.48 | 0.00    | 0.11    | 0.11    | — | 442    | 442    | 0.01    | 0.02    | 0.03 | 448    |
| Vendor              | 0.01    | 0.51 | 0.17 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 443    | 443    | 0.01    | 0.07    | 0.02 | 463    |
| Hauling             | 0.18    | 24.5 | 4.33 | 0.16    | 0.33    | 6.70 | 7.02 | 0.33    | 1.88    | 2.20    | — | 22,726 | 22,726 | 0.33    | 3.60    | 1.10 | 23,807 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.06    | 0.04 | 0.56 | 0.00    | 0.00    | 0.14 | 0.14 | 0.00    | 0.03    | 0.03    | — | 133    | 133    | < 0.005 | 0.01    | 0.17 | 135    |
| Vendor              | < 0.005 | 0.15 | 0.05 | < 0.005 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | — | 133    | 133    | < 0.005 | 0.02    | 0.11 | 139    |
| Hauling             | 0.05    | 7.39 | 1.29 | 0.05    | 0.10    | 2.00 | 2.10 | 0.10    | 0.56    | 0.66    | — | 6,804  | 6,804  | 0.10    | 1.08    | 5.48 | 7,133  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.01    | 0.01 | 0.10 | 0.00    | 0.00    | 0.03 | 0.03 | 0.00    | 0.01    | 0.01    | — | 22.1   | 22.1   | < 0.005 | < 0.005 | 0.03 | 22.4   |
| Vendor              | < 0.005 | 0.03 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 22.0   | 22.0   | < 0.005 | < 0.005 | 0.02 | 23.0   |
| Hauling             | 0.01    | 1.35 | 0.24 | 0.01    | 0.02    | 0.37 | 0.38 | 0.02    | 0.10    | 0.12    | — | 1,127  | 1,127  | 0.02    | 0.18    | 0.91 | 1,181  |

### 3.11. Building Construction (2030) - Unmitigated

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

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

|                     |         |      |      |         |         |      |         |         |      |         |   |        |        |         |         |      |        |
|---------------------|---------|------|------|---------|---------|------|---------|---------|------|---------|---|--------|--------|---------|---------|------|--------|
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.78    | 4.80 | 43.3 | 0.10    | 0.15    | —    | 0.15    | 0.15    | —    | 0.15    | — | 10,394 | 10,394 | 0.42    | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.12    | 0.74 | 6.70 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 1,607  | 1,607  | 0.07    | 0.01    | —    | 1,612  |
| 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   |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Off-Road Equipment  | 0.02    | 0.14 | 1.22 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 266    | 266    | 0.01    | < 0.005 | —    | 267    |
| 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   |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.20    | 0.15 | 1.77 | 0.00    | 0.00    | 0.48 | 0.48    | 0.00    | 0.11 | 0.11    | — | 434    | 434    | 0.01    | 0.02    | 0.03 | 440    |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14    | < 0.005 | 0.04 | 0.04    | — | 429    | 429    | 0.01    | 0.06    | 0.02 | 448    |
| Hauling             | 0.18    | 23.4 | 4.33 | 0.16    | 0.33    | 6.70 | 7.02    | 0.33    | 1.88 | 2.20    | — | 22,060 | 22,060 | 0.33    | 3.43    | 1.00 | 23,092 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.03    | 0.02 | 0.27 | 0.00    | 0.00    | 0.07 | 0.07    | 0.00    | 0.02 | 0.02    | — | 67.6   | 67.6   | < 0.005 | < 0.005 | 0.08 | 68.6   |
| Vendor              | < 0.005 | 0.08 | 0.02 | < 0.005 | < 0.005 | 0.02 | 0.02    | < 0.005 | 0.01 | 0.01    | — | 66.4   | 66.4   | < 0.005 | 0.01    | 0.05 | 69.3   |
| Hauling             | 0.03    | 3.64 | 0.67 | 0.03    | 0.05    | 1.03 | 1.08    | 0.05    | 0.29 | 0.34    | — | 3,410  | 3,410  | 0.05    | 0.53    | 2.58 | 3,572  |

|         |         |         |         |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker  | 0.01    | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 11.2 | 11.2 | < 0.005 | < 0.005 | 0.01 | 11.4 |
| Vendor  | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.0 | 11.0 | < 0.005 | < 0.005 | 0.01 | 11.5 |
| Hauling | 0.01    | 0.66    | 0.12    | < 0.005 | 0.01    | 0.19    | 0.20    | 0.01    | 0.05    | 0.06    | — | 565  | 565  | 0.01    | 0.09    | 0.43 | 591  |

### 3.12. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.78 | 4.80 | 43.3 | 0.10    | 0.15    | —     | 0.15    | 0.15    | —      | 0.15    | —    | 10,394 | 10,394 | 0.42 | 0.08    | —    | 10,430 |
| 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   |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.12 | 0.74 | 6.70 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,607  | 1,607  | 0.07 | 0.01    | —    | 1,612  |
| 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   |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.02 | 0.14 | 1.22 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 266    | 266    | 0.01 | < 0.005 | —    | 267    |
| 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   |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |

|                     |         |         |         |         |         |         |         |         |         |         |   |        |        |         |         |      |        |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------|--------|---------|---------|------|--------|
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.20    | 0.15    | 1.77    | 0.00    | 0.00    | 0.48    | 0.48    | 0.00    | 0.11    | 0.11    | — | 434    | 434    | 0.01    | 0.02    | 0.03 | 440    |
| Vendor              | 0.01    | 0.49    | 0.16    | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 429    | 429    | 0.01    | 0.06    | 0.02 | 448    |
| Hauling             | 0.18    | 23.4    | 4.33    | 0.16    | 0.33    | 6.70    | 7.02    | 0.33    | 1.88    | 2.20    | — | 22,060 | 22,060 | 0.33    | 3.43    | 1.00 | 23,092 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.03    | 0.02    | 0.27    | 0.00    | 0.00    | 0.07    | 0.07    | 0.00    | 0.02    | 0.02    | — | 67.6   | 67.6   | < 0.005 | < 0.005 | 0.08 | 68.6   |
| Vendor              | < 0.005 | 0.08    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | 0.01    | 0.01    | — | 66.4   | 66.4   | < 0.005 | 0.01    | 0.05 | 69.3   |
| Hauling             | 0.03    | 3.64    | 0.67    | 0.03    | 0.05    | 1.03    | 1.08    | 0.05    | 0.29    | 0.34    | — | 3,410  | 3,410  | 0.05    | 0.53    | 2.58 | 3,572  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —    | —      |
| Worker              | 0.01    | < 0.005 | 0.05    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 11.2   | 11.2   | < 0.005 | < 0.005 | 0.01 | 11.4   |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 11.0   | 11.0   | < 0.005 | < 0.005 | 0.01 | 11.5   |
| Hauling             | 0.01    | 0.66    | 0.12    | < 0.005 | 0.01    | 0.19    | 0.20    | 0.01    | 0.05    | 0.06    | — | 565    | 565    | 0.01    | 0.09    | 0.43 | 591    |

### 3.13. Building Construction (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.24 | 1.27 | 12.7 | 0.05 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 4,588 | 4,588 | 0.19 | 0.04 | —    | 4,604 |
| 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  |

|                     |         |         |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|---------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.07    | 0.38    | 3.79 | 0.01    | 0.01    | —    | 0.01    | 0.01    | —       | 0.01    | — | 1,370 | 1,370 | 0.06    | 0.01    | —    | 1,375 |
| 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  |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01    | 0.07    | 0.69 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 227   | 227   | 0.01    | < 0.005 | —    | 228   |
| 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  |
| Offsite             | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08    | 0.05    | 0.72 | 0.00    | 0.00    | 0.20 | 0.20    | 0.00    | 0.05    | 0.05    | — | 184   | 184   | < 0.005 | < 0.005 | 0.43 | 185   |
| Vendor              | 0.01    | 0.34    | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10    | < 0.005 | 0.03    | 0.03    | — | 311   | 311   | < 0.005 | 0.05    | 0.49 | 326   |
| 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  |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02    | 0.02    | 0.20 | 0.00    | 0.00    | 0.06 | 0.06    | 0.00    | 0.01    | 0.01    | — | 52.9  | 52.9  | < 0.005 | < 0.005 | 0.06 | 53.7  |
| Vendor              | < 0.005 | 0.10    | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 92.9  | 92.9  | < 0.005 | 0.01    | 0.06 | 97.2  |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00  | 0.00  | 0.00    | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 8.76  | 8.76  | < 0.005 | < 0.005 | 0.01 | 8.90  |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 15.4  | 15.4  | < 0.005 | < 0.005 | 0.01 | 16.1  |

|         |      |      |      |      |      |      |      |      |      |      |      |   |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|
| Hauling | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | — | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
|---------|------|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|

### 3.14. Building Construction (2031) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4     | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|---------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24 | 1.27 | 12.7 | 0.05    | 0.05    | —     | 0.05    | 0.05    | —      | 0.05    | —    | 4,588 | 4,588 | 0.19    | 0.04    | —    | 4,604 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.07 | 0.38 | 3.79 | 0.01    | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 1,370 | 1,370 | 0.06    | 0.01    | —    | 1,375 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.01 | 0.07 | 0.69 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 227   | 227   | 0.01    | < 0.005 | —    | 228   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —       | —       | —    | —     |
| Worker              | 0.08 | 0.05 | 0.72 | 0.00    | 0.00    | 0.20  | 0.20    | 0.00    | 0.05   | 0.05    | —    | 184   | 184   | < 0.005 | < 0.005 | 0.43 | 185   |

|                     |         |         |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor              | 0.01    | 0.34    | 0.12 | < 0.005 | < 0.005 | 0.10 | 0.10 | < 0.005 | 0.03    | 0.03    | — | 311  | 311  | < 0.005 | 0.05    | 0.49 | 326  |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Average Daily       | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.02    | 0.20 | 0.00    | 0.00    | 0.06 | 0.06 | 0.00    | 0.01    | 0.01    | — | 52.9 | 52.9 | < 0.005 | < 0.005 | 0.06 | 53.7 |
| Vendor              | < 0.005 | 0.10    | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01    | 0.01    | — | 92.9 | 92.9 | < 0.005 | 0.01    | 0.06 | 97.2 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | 0.04 | 0.00    | 0.00    | 0.01 | 0.01 | 0.00    | < 0.005 | < 0.005 | — | 8.76 | 8.76 | < 0.005 | < 0.005 | 0.01 | 8.90 |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 15.4 | 15.4 | < 0.005 | < 0.005 | 0.01 | 16.1 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

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

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |         |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|---------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.13    | 1.15 | 6.80 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —       | 0.02    | — | 1,849 | 1,849 | 0.08    | 0.02    | —    | 1,855 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.02    | 0.21 | 1.24 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —       | < 0.005 | — | 306   | 306   | 0.01    | < 0.005 | —    | 307   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.24    | 0.19 | 2.16 | 0.00    | 0.00    | 0.55 | 0.55    | 0.00    | 0.13    | 0.13    | — | 507   | 507   | 0.01    | 0.02    | 0.04 | 514   |
| Vendor              | 0.01    | 0.71 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19    | < 0.005 | 0.05    | 0.06    | — | 609   | 609   | 0.01    | 0.09    | 0.03 | 636   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.10 | 0.10    | 0.00    | 0.02    | 0.02    | — | 91.9  | 91.9  | < 0.005 | < 0.005 | 0.12 | 93.3  |
| Vendor              | < 0.005 | 0.13 | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03    | < 0.005 | 0.01    | 0.01    | — | 110   | 110   | < 0.005 | 0.02    | 0.09 | 115   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —       | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 15.2  | 15.2  | < 0.005 | < 0.005 | 0.02 | 15.4  |
| Vendor              | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01    | < 0.005 | < 0.005 | < 0.005 | — | 18.1  | 18.1  | < 0.005 | < 0.005 | 0.02 | 19.0  |
| 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  |

3.16. Building Construction (2029) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2  | CO2T   | CH4  | N2O     | R    | CO2e   |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|--------|--------|------|---------|------|--------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11    | 0.14    | —     | 0.14    | 0.14    | —      | 0.14    | —    | 10,270 | 10,270 | 0.42 | 0.08    | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.13 | 1.15 | 6.80 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,849  | 1,849  | 0.08 | 0.02    | —    | 1,855  |
| 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   |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Off-Road Equipment  | 0.02 | 0.21 | 1.24 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 306    | 306    | 0.01 | < 0.005 | —    | 307    |
| 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   |
| Offsite             | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —      | —      | —    | —       | —    | —      |
| Worker              | 0.24 | 0.19 | 2.16 | 0.00    | 0.00    | 0.55  | 0.55    | 0.00    | 0.13   | 0.13    | —    | 507    | 507    | 0.01 | 0.02    | 0.04 | 514    |
| Vendor              | 0.01 | 0.71 | 0.23 | < 0.005 | < 0.005 | 0.18  | 0.19    | < 0.005 | 0.05   | 0.06    | —    | 609    | 609    | 0.01 | 0.09    | 0.03 | 636    |

|               |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| 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 |
| Average Daily | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.10 | 0.10 | 0.00    | 0.02    | 0.02    | — | 91.9 | 91.9 | < 0.005 | < 0.005 | 0.12 | 93.3 |
| Vendor        | < 0.005 | 0.13 | 0.04 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | 0.01    | 0.01    | — | 110  | 110  | < 0.005 | 0.02    | 0.09 | 115  |
| 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 |
| Annual        | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 15.2 | 15.2 | < 0.005 | < 0.005 | 0.02 | 15.4 |
| Vendor        | < 0.005 | 0.02 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 18.1 | 18.1 | < 0.005 | < 0.005 | 0.02 | 19.0 |
| 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 |

### 3.17. Building Construction (2030) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.29    | 2.55 | 15.0 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —       | 0.05    | — | 4,080 | 4,080 | 0.17    | 0.03    | —    | 4,094 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.05    | 0.46 | 2.74 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —       | 0.01    | — | 675   | 675   | 0.03    | 0.01    | —    | 678   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.15 | 2.15 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 521   | 521   | 0.01    | 0.02    | 1.36 | 529   |
| Vendor              | 0.01    | 0.65 | 0.22 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590   | 590   | 0.01    | 0.09    | 1.03 | 617   |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.23    | 0.17 | 2.04 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 498   | 498   | 0.01    | 0.02    | 0.04 | 505   |
| Vendor              | 0.01    | 0.67 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590   | 590   | 0.01    | 0.09    | 0.03 | 616   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.09    | 0.07 | 0.80 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05    | 0.05    | — | 199   | 199   | < 0.005 | 0.01    | 0.23 | 202   |
| Vendor              | 0.01    | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 234   | 234   | < 0.005 | 0.03    | 0.18 | 245   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.02    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 33.0  | 33.0  | < 0.005 | < 0.005 | 0.04 | 33.5  |
| Vendor              | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 38.8  | 38.8  | < 0.005 | 0.01    | 0.03 | 40.5  |
| 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  |

### 3.18. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2  | CO2T   | CH4  | N2O  | R    | CO2e   |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|--------|--------|------|------|------|--------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.72 | 6.41 | 37.8 | 0.11 | 0.14  | —     | 0.14  | 0.14   | —      | 0.14   | —    | 10,270 | 10,270 | 0.42 | 0.08 | —    | 10,305 |
| 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   |
| Average Daily       | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.29 | 2.55 | 15.0 | 0.04 | 0.05  | —     | 0.05  | 0.05   | —      | 0.05   | —    | 4,080  | 4,080  | 0.17 | 0.03 | —    | 4,094  |
| 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   |
| Annual              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |
| Off-Road Equipment  | 0.05 | 0.46 | 2.74 | 0.01 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 675    | 675    | 0.03 | 0.01 | —    | 678    |
| 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   |
| Offsite             | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —      | —      | —    | —    | —    | —      |

|                     |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.23    | 0.15 | 2.15 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 521  | 521  | 0.01    | 0.02    | 1.36 | 529  |
| Vendor              | 0.01    | 0.65 | 0.22 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590  | 590  | 0.01    | 0.09    | 1.03 | 617  |
| 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 |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.23    | 0.17 | 2.04 | 0.00    | 0.00    | 0.55 | 0.55 | 0.00    | 0.13    | 0.13    | — | 498  | 498  | 0.01    | 0.02    | 0.04 | 505  |
| Vendor              | 0.01    | 0.67 | 0.23 | < 0.005 | < 0.005 | 0.18 | 0.19 | < 0.005 | 0.05    | 0.06    | — | 590  | 590  | 0.01    | 0.09    | 0.03 | 616  |
| 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 |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.09    | 0.07 | 0.80 | 0.00    | 0.00    | 0.22 | 0.22 | 0.00    | 0.05    | 0.05    | — | 199  | 199  | < 0.005 | 0.01    | 0.23 | 202  |
| Vendor              | 0.01    | 0.27 | 0.09 | < 0.005 | < 0.005 | 0.07 | 0.08 | < 0.005 | 0.02    | 0.02    | — | 234  | 234  | < 0.005 | 0.03    | 0.18 | 245  |
| 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 |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.01 | 0.15 | 0.00    | 0.00    | 0.04 | 0.04 | 0.00    | 0.01    | 0.01    | — | 33.0 | 33.0 | < 0.005 | < 0.005 | 0.04 | 33.5 |
| Vendor              | < 0.005 | 0.05 | 0.02 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 38.8 | 38.8 | < 0.005 | 0.01    | 0.03 | 40.5 |
| 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 |

### 3.19. Building Construction (2030) - Unmitigated

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

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

|                     |      |      |      |         |         |      |      |         |      |      |   |       |       |      |      |      |       |
|---------------------|------|------|------|---------|---------|------|------|---------|------|------|---|-------|-------|------|------|------|-------|
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11 | 0.11    | —    | 0.11 | — | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11 | 0.11    | —    | 0.11 | — | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.24 | 1.24 | 12.4 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —    | 0.05 | — | 3,916 | 3,916 | 0.16 | 0.03 | —    | 3,929 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.04 | 0.23 | 2.26 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —    | 0.01 | — | 648   | 648   | 0.03 | 0.01 | —    | 651   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Worker              | 0.11 | 0.07 | 0.99 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06 | 0.06 | — | 240   | 240   | 0.01 | 0.01 | 0.63 | 244   |
| Vendor              | 0.01 | 0.47 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04 | 0.04 | — | 429   | 429   | 0.01 | 0.06 | 0.75 | 449   |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —    | —       | —    | —    | — | —     | —     | —    | —    | —    | —     |
| Worker              | 0.10 | 0.08 | 0.94 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06 | 0.06 | — | 230   | 230   | 0.01 | 0.01 | 0.02 | 233   |

|               |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429  | 429  | 0.01    | 0.06    | 0.02 | 448  |
| 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 |
| Average Daily | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 97.0 | 97.0 | < 0.005 | < 0.005 | 0.11 | 98.4 |
| Vendor        | < 0.005 | 0.20 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | — | 180  | 180  | < 0.005 | 0.03    | 0.14 | 188  |
| 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 |
| Annual        | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 16.1 | 16.1 | < 0.005 | < 0.005 | 0.02 | 16.3 |
| Vendor        | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 29.8 | 29.8 | < 0.005 | < 0.005 | 0.02 | 31.1 |
| Hauling       | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.20. Building Construction (2030) - Mitigated

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

| Location            | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T  | CH4  | N2O  | R    | CO2e  |
|---------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|-------|------|------|------|-------|
| Onsite              | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —     | —    | —    | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10 | 0.11  | —     | 0.11  | 0.11   | —      | 0.11   | —    | 9,351 | 9,351 | 0.38 | 0.08 | —    | 9,383 |
| 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  |

|                     |         |      |      |         |         |      |      |         |         |         |   |       |       |         |         |      |       |
|---------------------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|------|-------|
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.24    | 1.24 | 12.4 | 0.04    | 0.05    | —    | 0.05 | 0.05    | —       | 0.05    | — | 3,916 | 3,916 | 0.16    | 0.03    | —    | 3,929 |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.04    | 0.23 | 2.26 | 0.01    | 0.01    | —    | 0.01 | 0.01    | —       | 0.01    | — | 648   | 648   | 0.03    | 0.01    | —    | 651   |
| 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  |
| Offsite             | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.11    | 0.07 | 0.99 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | — | 240   | 240   | 0.01    | 0.01    | 0.63 | 244   |
| Vendor              | 0.01    | 0.47 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429   | 429   | 0.01    | 0.06    | 0.75 | 449   |
| 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  |
| Daily, Winter (Max) | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10    | 0.08 | 0.94 | 0.00    | 0.00    | 0.25 | 0.25 | 0.00    | 0.06    | 0.06    | — | 230   | 230   | 0.01    | 0.01    | 0.02 | 233   |
| Vendor              | 0.01    | 0.49 | 0.16 | < 0.005 | < 0.005 | 0.13 | 0.14 | < 0.005 | 0.04    | 0.04    | — | 429   | 429   | 0.01    | 0.06    | 0.02 | 448   |
| 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  |
| Average Daily       | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.04    | 0.03 | 0.39 | 0.00    | 0.00    | 0.11 | 0.11 | 0.00    | 0.02    | 0.02    | — | 97.0  | 97.0  | < 0.005 | < 0.005 | 0.11 | 98.4  |
| Vendor              | < 0.005 | 0.20 | 0.07 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.02    | 0.02    | — | 180   | 180   | < 0.005 | 0.03    | 0.14 | 188   |
| 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  |
| Annual              | —       | —    | —    | —       | —       | —    | —    | —       | —       | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.01    | 0.01 | 0.07 | 0.00    | 0.00    | 0.02 | 0.02 | 0.00    | < 0.005 | < 0.005 | — | 16.1  | 16.1  | < 0.005 | < 0.005 | 0.02 | 16.3  |

|         |         |      |      |         |         |      |      |         |         |         |   |      |      |         |         |      |      |
|---------|---------|------|------|---------|---------|------|------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor  | < 0.005 | 0.04 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 29.8 | 29.8 | < 0.005 | < 0.005 | 0.02 | 31.1 |
| Hauling | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

### 3.21. Building Construction (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T  | CH4  | N2O     | R    | CO2e  |
|---------------------|------|------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|-------|------|---------|------|-------|
| Onsite              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —     | 0.11    | 0.11    | —      | 0.11    | —    | 9,351 | 9,351 | 0.38 | 0.08    | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —     | 0.11    | 0.11    | —      | 0.11    | —    | 9,351 | 9,351 | 0.38 | 0.08    | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.11 | 0.55 | 5.51 | 0.02    | 0.02    | —     | 0.02    | 0.02    | —      | 0.02    | —    | 1,738 | 1,738 | 0.07 | 0.01    | —    | 1,744 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —     | —    | —       | —    | —     |
| Off-Road Equipment  | 0.02 | 0.10 | 1.00 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 288   | 288   | 0.01 | < 0.005 | —    | 289   |
| 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  |

|                     |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Offsite             | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.10    | 0.06    | 0.92 | 0.00    | 0.00    | 0.25    | 0.25    | 0.00    | 0.06    | 0.06    | — | 237  | 237  | < 0.005 | < 0.005 | 0.56 | 238  |
| Vendor              | 0.01    | 0.45    | 0.15 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.65 | 434  |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.10    | 0.07    | 0.88 | 0.00    | 0.00    | 0.25    | 0.25    | 0.00    | 0.06    | 0.06    | — | 226  | 226  | 0.01    | 0.01    | 0.01 | 230  |
| Vendor              | 0.01    | 0.47    | 0.16 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.02 | 434  |
| 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 |
| Average Daily       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | 0.02    | 0.01    | 0.16 | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.04 | 43.0 |
| Vendor              | < 0.005 | 0.09    | 0.03 | < 0.005 | < 0.005 | 0.02    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 77.1 | 77.1 | < 0.005 | 0.01    | 0.05 | 80.7 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker              | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.12 |
| Vendor              | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.01 | 13.4 |
| 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 |

### 3.22. Building Construction (2031) - Mitigated

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

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

|                     |      |      |      |         |         |      |         |         |      |         |   |       |       |         |         |      |       |
|---------------------|------|------|------|---------|---------|------|---------|---------|------|---------|---|-------|-------|---------|---------|------|-------|
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | — | 9,351 | 9,351 | 0.38    | 0.08    | —    | 9,383 |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.57 | 2.96 | 29.6 | 0.10    | 0.11    | —    | 0.11    | 0.11    | —    | 0.11    | — | 9,351 | 9,351 | 0.38    | 0.08    | —    | 9,383 |
| 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  |
| Average Daily       | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.11 | 0.55 | 5.51 | 0.02    | 0.02    | —    | 0.02    | 0.02    | —    | 0.02    | — | 1,738 | 1,738 | 0.07    | 0.01    | —    | 1,744 |
| 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  |
| Annual              | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Off-Road Equipment  | 0.02 | 0.10 | 1.00 | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | — | 288   | 288   | 0.01    | < 0.005 | —    | 289   |
| 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  |
| Offsite             | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Daily, Summer (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10 | 0.06 | 0.92 | 0.00    | 0.00    | 0.25 | 0.25    | 0.00    | 0.06 | 0.06    | — | 237   | 237   | < 0.005 | < 0.005 | 0.56 | 238   |
| Vendor              | 0.01 | 0.45 | 0.15 | < 0.005 | < 0.005 | 0.13 | 0.14    | < 0.005 | 0.04 | 0.04    | — | 415   | 415   | 0.01    | 0.06    | 0.65 | 434   |
| 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  |
| Daily, Winter (Max) | —    | —    | —    | —       | —       | —    | —       | —       | —    | —       | — | —     | —     | —       | —       | —    | —     |
| Worker              | 0.10 | 0.07 | 0.88 | 0.00    | 0.00    | 0.25 | 0.25    | 0.00    | 0.06 | 0.06    | — | 226   | 226   | 0.01    | 0.01    | 0.01 | 230   |

|               |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |      |      |
|---------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|------|------|
| Vendor        | 0.01    | 0.47    | 0.16 | < 0.005 | < 0.005 | 0.13    | 0.14    | < 0.005 | 0.04    | 0.04    | — | 415  | 415  | 0.01    | 0.06    | 0.02 | 434  |
| 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 |
| Average Daily | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | 0.02    | 0.01    | 0.16 | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 42.4 | 42.4 | < 0.005 | < 0.005 | 0.04 | 43.0 |
| Vendor        | < 0.005 | 0.09    | 0.03 | < 0.005 | < 0.005 | 0.02    | 0.03    | < 0.005 | 0.01    | 0.01    | — | 77.1 | 77.1 | < 0.005 | 0.01    | 0.05 | 80.7 |
| Hauling       | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual        | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —    | —    |
| Worker        | < 0.005 | < 0.005 | 0.03 | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.01 | 7.01 | < 0.005 | < 0.005 | 0.01 | 7.12 |
| Vendor        | < 0.005 | 0.02    | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 12.8 | 12.8 | < 0.005 | < 0.005 | 0.01 | 13.4 |
| 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 |

### 3.23. Paving (2031) - Unmitigated

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

| Location            | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|---------------------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite              | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Summer (Max) | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment  | 0.05 | 0.25 | 3.49 | < 0.005 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 497   | 497  | 0.02 | < 0.005 | —    | 499  |
| Paving              | 0.52 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| 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 |
| Daily, Winter (Max) | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Average Daily       | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |

|                     |         |         |      |         |         |         |         |         |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Off-Road Equipment  | 0.01    | 0.03    | 0.38 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 54.5 | 54.5 | < 0.005 | < 0.005 | —       | 54.7 |
| Paving              | 0.06    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | 0.07 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 9.02 | 9.02 | < 0.005 | < 0.005 | —       | 9.05 |
| Paving              | 0.01    | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.06    | 0.04    | 0.56 | 0.00    | 0.00    | 0.16    | 0.16    | 0.00    | 0.04    | 0.04    | — | 145  | 145  | < 0.005 | < 0.005 | 0.34    | 145  |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.06 | 0.00    | 0.00    | 0.02    | 0.02    | 0.00    | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | 0.02    | 15.5 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —       | —       | —       | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | — | 2.53 | 2.53 | < 0.005 | < 0.005 | < 0.005 | 2.57 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |

### 3.24. Paving (2031) - Mitigated

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

| Location            | ROG     | NOx     | CO   | SO2     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|---------------------|---------|---------|------|---------|---------|-------|---------|---------|--------|---------|------|-------|------|---------|---------|------|------|
| Onsite              | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.05    | 0.25    | 3.49 | < 0.005 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 497   | 497  | 0.02    | < 0.005 | —    | 499  |
| Paving              | 0.52    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Average Daily       | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | 0.01    | 0.03    | 0.38 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 54.5  | 54.5 | < 0.005 | < 0.005 | —    | 54.7 |
| Paving              | 0.06    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | 0.07 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 9.02  | 9.02 | < 0.005 | < 0.005 | —    | 9.05 |
| Paving              | 0.01    | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck        | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —     | —       | —       | —      | —       | —    | —     | —    | —       | —       | —    | —    |

|                     |         |         |      |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------------------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Worker              | 0.06    | 0.04    | 0.56 | 0.00 | 0.00 | 0.16    | 0.16    | 0.00 | 0.04    | 0.04    | — | 145  | 145  | < 0.005 | < 0.005 | 0.34    | 145  |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max) | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | 0.01    | < 0.005 | 0.06 | 0.00 | 0.00 | 0.02    | 0.02    | 0.00 | < 0.005 | < 0.005 | — | 15.3 | 15.3 | < 0.005 | < 0.005 | 0.02    | 15.5 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —    | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.53 | 2.53 | < 0.005 | < 0.005 | < 0.005 | 2.57 |
| Vendor              | 0.00    | 0.00    | 0.00 | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |

### 3.25. Architectural Coating (2031) - Unmitigated

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

| Location               | ROG  | NOx  | CO   | SO2  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4  | N2O     | R    | CO2e |
|------------------------|------|------|------|------|-------|-------|-------|--------|--------|--------|------|-------|------|------|---------|------|------|
| Onsite                 | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Daily, Summer (Max)    | —    | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | 0.01 | —     | —     | —     | —      | —      | —      | —    | 463   | 463  | 0.02 | < 0.005 | —    | 465  |
| Architectural Coatings | 4.94 | —    | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     | —    | —    | —       | —    | —    |
| 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 |

|                        |         |         |      |         |      |         |         |      |         |         |   |      |      |         |         |         |      |
|------------------------|---------|---------|------|---------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —    | < 0.005 | —    | —       | —       | —    | —       | —       | — | 52.0 | 52.0 | < 0.005 | < 0.005 | —       | 52.2 |
| Architectural Coatings | 0.55    | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                 | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —    | < 0.005 | —    | —       | —       | —    | —       | —       | — | 8.61 | 8.61 | < 0.005 | < 0.005 | —       | 8.64 |
| Architectural Coatings | 0.10    | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| 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 |
| Offsite                | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | 0.01    | 0.01    | 0.10 | 0.00    | 0.00 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.06    | 26.4 |
| Vendor                 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max)    | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —    | —       | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.01 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.84 | 2.84 | < 0.005 | < 0.005 | < 0.005 | 2.89 |

|         |         |         |         |      |      |         |         |      |         |         |   |      |      |         |         |         |      |
|---------|---------|---------|---------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Annual  | —       | —       | —       | —    | —    | —       | —       | —    | —       | —       | — | —    | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.47 | 0.47 | < 0.005 | < 0.005 | < 0.005 | 0.48 |
| Vendor  | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling | 0.00    | 0.00    | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

### 3.26. Architectural Coating (2031) - Mitigated

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

| Location               | ROG  | NOx  | CO   | SO2     | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|------------------------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|------|---------|---------|------|------|
| Onsite                 | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | 0.01    | —     | —     | —     | —      | —      | —      | —    | 463   | 463  | 0.02    | < 0.005 | —    | 465  |
| Architectural Coatings | 4.94 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| 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 |
| Daily, Winter (Max)    | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Average Daily          | —    | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment     | —    | —    | —    | < 0.005 | —     | —     | —     | —      | —      | —      | —    | 52.0  | 52.0 | < 0.005 | < 0.005 | —    | 52.2 |
| Architectural Coatings | 0.55 | —    | —    | —       | —     | —     | —     | —      | —      | —      | —    | —     | —    | —       | —       | —    | —    |

|                        |         |         |         |         |      |         |         |      |         |         |      |   |      |      |         |         |         |      |
|------------------------|---------|---------|---------|---------|------|---------|---------|------|---------|---------|------|---|------|------|---------|---------|---------|------|
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                 | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Off-Road Equipment     | —       | —       | —       | < 0.005 | —    | —       | —       | —    | —       | —       | —    | — | 8.61 | 8.61 | < 0.005 | < 0.005 | —       | 8.64 |
| Architectural Coatings | 0.10    | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite                | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | 0.01    | 0.01    | 0.10    | 0.00    | 0.00 | 0.03    | 0.03    | 0.00 | 0.01    | 0.01    | —    | — | 26.3 | 26.3 | < 0.005 | < 0.005 | 0.06    | 26.4 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Daily, Winter (Max)    | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Average Daily          | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.01    | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | —    | — | 2.84 | 2.84 | < 0.005 | < 0.005 | < 0.005 | 2.89 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| 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 |
| Annual                 | —       | —       | —       | —       | —    | —       | —       | —    | —       | —       | —    | — | —    | —    | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | < 0.005 | 0.00    | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | —    | — | 0.47 | 0.47 | < 0.005 | < 0.005 | < 0.005 | 0.48 |
| Vendor                 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00    | —    | — | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00 |

3.27. Trenching (2030) - Unmitigated

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

| Location                    | ROG     | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-----------------------------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|---------|---------|------|------|
| Onsite                      | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | < 0.005 | 0.14 | 0.21 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 86.9  | 86.9 | < 0.005 | < 0.005 | —    | 87.2 |
| Dust From Material Movement | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |

|                             |         |         |         |         |         |         |         |         |         |         |   |        |        |         |         |         |        |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Off-Road Equipment          | < 0.005 | 0.03    | 0.04    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 14.4   | 14.4   | < 0.005 | < 0.005 | —       | 14.4   |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —      | —      | —       | —       | —       | —      |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.14    | 0.09    | 1.27    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 307    | 307    | 0.01    | 0.01    | 0.80    | 312    |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.6   | 53.6   | < 0.005 | 0.01    | 0.09    | 56.1   |
| Hauling                     | 0.11    | 14.4    | 2.77    | 0.10    | 0.21    | 4.29    | 4.49    | 0.21    | 1.20    | 1.41    | — | 14,118 | 14,118 | 0.21    | 2.20    | 24.6    | 14,803 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.13    | 0.10    | 1.20    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 294    | 294    | 0.01    | 0.01    | 0.02    | 298    |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.7   | 53.7   | < 0.005 | 0.01    | < 0.005 | 56.0   |
| Hauling                     | 0.11    | 15.0    | 2.77    | 0.10    | 0.21    | 4.29    | 4.49    | 0.21    | 1.20    | 1.41    | — | 14,119 | 14,119 | 0.21    | 2.20    | 0.64    | 14,779 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 45.4   | 45.4   | < 0.005 | < 0.005 | 0.05    | 46.1   |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.23   | 8.23   | < 0.005 | < 0.005 | 0.01    | 8.60   |
| Hauling                     | 0.02    | 2.31    | 0.42    | 0.02    | 0.03    | 0.66    | 0.69    | 0.03    | 0.18    | 0.22    | — | 2,166  | 2,166  | 0.03    | 0.34    | 1.64    | 2,269  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.52   | 7.52   | < 0.005 | < 0.005 | 0.01    | 7.63   |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.36   | 1.36   | < 0.005 | < 0.005 | < 0.005 | 1.42   |
| Hauling                     | < 0.005 | 0.42    | 0.08    | < 0.005 | 0.01    | 0.12    | 0.13    | 0.01    | 0.03    | 0.04    | — | 359    | 359    | 0.01    | 0.06    | 0.27    | 376    |

### 3.28. Trenching (2030) - Mitigated

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

| Location                    | ROG     | NOx  | CO   | SO2     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | BCO2 | NBCO2 | CO2T | CH4     | N2O     | R    | CO2e |
|-----------------------------|---------|------|------|---------|---------|---------|---------|---------|---------|---------|------|-------|------|---------|---------|------|------|
| Onsite                      | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Daily, Summer (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max)         | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | 0.03    | 0.93 | 1.39 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 567   | 567  | 0.02    | < 0.005 | —    | 569  |
| Dust From Material Movement | —       | —    | —    | —       | —       | 0.01    | 0.01    | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |
| Onsite truck                | 0.00    | 0.00 | 0.00 | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | —    | 0.00  | 0.00 | 0.00    | 0.00    | 0.00 | 0.00 |
| Average Daily               | —       | —    | —    | —       | —       | —       | —       | —       | —       | —       | —    | —     | —    | —       | —       | —    | —    |
| Off-Road Equipment          | < 0.005 | 0.14 | 0.21 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —    | 86.9  | 86.9 | < 0.005 | < 0.005 | —    | 87.2 |
| Dust From Material Movement | —       | —    | —    | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —    | —     | —    | —       | —       | —    | —    |

|                             |         |         |         |         |         |         |         |         |         |         |   |        |        |         |         |         |        |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|--------|--------|---------|---------|---------|--------|
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Off-Road Equipment          | < 0.005 | 0.03    | 0.04    | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | — | 14.4   | 14.4   | < 0.005 | < 0.005 | —       | 14.4   |
| Dust From Material Movement | —       | —       | —       | —       | —       | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | — | —      | —      | —       | —       | —       | —      |
| Onsite truck                | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | — | 0.00   | 0.00   | 0.00    | 0.00    | 0.00    | 0.00   |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.14    | 0.09    | 1.27    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 307    | 307    | 0.01    | 0.01    | 0.80    | 312    |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.6   | 53.6   | < 0.005 | 0.01    | 0.09    | 56.1   |
| Hauling                     | 0.11    | 14.4    | 2.77    | 0.10    | 0.21    | 4.29    | 4.49    | 0.21    | 1.20    | 1.41    | — | 14,118 | 14,118 | 0.21    | 2.20    | 24.6    | 14,803 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.13    | 0.10    | 1.20    | 0.00    | 0.00    | 0.33    | 0.33    | 0.00    | 0.08    | 0.08    | — | 294    | 294    | 0.01    | 0.01    | 0.02    | 298    |
| Vendor                      | < 0.005 | 0.06    | 0.02    | < 0.005 | < 0.005 | 0.02    | 0.02    | < 0.005 | < 0.005 | 0.01    | — | 53.7   | 53.7   | < 0.005 | 0.01    | < 0.005 | 56.0   |
| Hauling                     | 0.11    | 15.0    | 2.77    | 0.10    | 0.21    | 4.29    | 4.49    | 0.21    | 1.20    | 1.41    | — | 14,119 | 14,119 | 0.21    | 2.20    | 0.64    | 14,779 |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | 0.02    | 0.02    | 0.18    | 0.00    | 0.00    | 0.05    | 0.05    | 0.00    | 0.01    | 0.01    | — | 45.4   | 45.4   | < 0.005 | < 0.005 | 0.05    | 46.1   |
| Vendor                      | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 8.23   | 8.23   | < 0.005 | < 0.005 | 0.01    | 8.60   |
| Hauling                     | 0.02    | 2.31    | 0.42    | 0.02    | 0.03    | 0.66    | 0.69    | 0.03    | 0.18    | 0.22    | — | 2,166  | 2,166  | 0.03    | 0.34    | 1.64    | 2,269  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —       | — | —      | —      | —       | —       | —       | —      |
| Worker                      | < 0.005 | < 0.005 | 0.03    | 0.00    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | — | 7.52   | 7.52   | < 0.005 | < 0.005 | 0.01    | 7.63   |
| Vendor                      | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.36   | 1.36   | < 0.005 | < 0.005 | < 0.005 | 1.42   |

|         |         |      |      |         |      |      |      |      |      |      |   |     |     |      |      |      |     |
|---------|---------|------|------|---------|------|------|------|------|------|------|---|-----|-----|------|------|------|-----|
| Hauling | < 0.005 | 0.42 | 0.08 | < 0.005 | 0.01 | 0.12 | 0.13 | 0.01 | 0.03 | 0.04 | — | 359 | 359 | 0.01 | 0.06 | 0.27 | 376 |
|---------|---------|------|------|---------|------|------|------|------|------|------|---|-----|-----|------|------|------|-----|

## 4. Operations Emissions Details

### 4.10. Soil Carbon Accumulation By Vegetation Type

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

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

| Vegetation          | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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            | 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             | 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          | 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 | 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             | 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 |
|-----------------------------------|-----------------------|------------|------------|---------------|---------------------|-------------------|
| 2-Existing Project Site Demo      | Demolition            | 6/15/2029  | 6/29/2029  | 5.00          | 11.0                | —                 |
| 12-Decommissioning Demolition     | Demolition            | 10/1/2032  | 12/30/2032 | 5.00          | 65.0                | —                 |
| 1-Subsurface Exploration          | Site Preparation      | 5/1/2029   | 7/3/2029   | 5.00          | 46.0                | —                 |
| 3-Site Preparation/ Rough Grading | Grading               | 7/4/2029   | 7/25/2029  | 5.00          | 16.0                | —                 |
| 4-Foundations                     | Building Construction | 8/1/2029   | 3/20/2030  | 5.00          | 166                 | —                 |

|  |                       |           |           |      |      |   |
|--|-----------------------|-----------|-----------|------|------|---|
| 10-Commissioning / Startup and Testing                     | Building Construction | 5/1/2031  | 9/30/2031 | 5.00 | 109  | — |
| 6-Equipment , Structural Steel & Building Erection, Piping | Building Construction | 10/1/2029 | 7/22/2030 | 5.00 | 211  | — |
| 7-Electrical & Instrumentation                             | Building Construction | 6/1/2030  | 4/5/2031  | 5.00 | 220  | — |
| 8-Paving   | Paving                | 6/1/2031  | 7/27/2031 | 5.00 | 40.0 | — |
| 9-Painting/Insulation                                      | Architectural Coating | 7/1/2031  | 8/26/2031 | 5.00 | 41.0 | — |
| 5-Trenching/Undergrounds                                   | Trenching             | 2/1/2030  | 4/19/2030 | 5.00 | 56.0 | — |

## 5.2. Off-Road Equipment

### 5.2.1. Unmitigated

| Phase Name                           | Equipment Type              | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|--------------------------------------|-----------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| 3-Site Preparation/<br>Rough Grading | Rubber Tired Dozers         | Diesel    | Tier 4 Final | 1.00           | 8.00          | 367        | 0.40        |
| 3-Site Preparation/<br>Rough Grading | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 3.00           | 9.00          | 107        | 0.37        |
| 4-Foundations                        | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 1.00           | 9.00          | 225        | 0.37        |
| 2-Existing Project Site<br>Demo      | Concrete/Industrial<br>Saws | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |
| 12-Decommissioning<br>Demolition     | Concrete/Industrial<br>Saws | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |
| 12-Decommissioning<br>Demolition     | Excavators                  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 45.0       | 0.38        |
| 1-Subsurface<br>Exploration          | Tractors/Loaders/Backhoes   | Diesel    | Tier 4 Final | 4.00           | 9.00          | 107        | 0.37        |
| 3-Site Preparation/<br>Rough Grading | Excavators                  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 45.0       | 0.38        |
| 4-Foundations                        | Cranes                      | Diesel    | Tier 4 Final | 1.00           | 9.00          | 275        | 0.29        |

|  |                           |        |              |      |      |      |      |
|--|---------------------------|--------|--------------|------|------|------|------|
| 4-Foundations  | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 4-Foundations  | Generator Sets            | Diesel | Tier 4 Final | 4.00 | 9.00 | 49.0 | 0.74 |
| 4-Foundations  | Welders                   | Diesel | Tier 4 Final | 4.00 | 9.00 | 24.0 | 0.45 |
| 10-Commissioning /<br>Startup and Testing                        | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 10-Commissioning /<br>Startup and Testing                        | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 10-Commissioning /<br>Startup and Testing                        | Generator Sets            | Diesel | Tier 4 Final | 3.00 | 9.00 | 49.0 | 0.74 |
| 10-Commissioning /<br>Startup and Testing                        | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 10-Commissioning /<br>Startup and Testing                        | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 6-Equipment , Structural<br>Steel & Building<br>Erection, Piping | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 6-Equipment , Structural<br>Steel & Building<br>Erection, Piping | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 6-Equipment , Structural<br>Steel & Building<br>Erection, Piping | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 6-Equipment , Structural<br>Steel & Building<br>Erection, Piping | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 6-Equipment , Structural<br>Steel & Building<br>Erection, Piping | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 7-Electrical &<br>Instrumentation                                | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 7-Electrical &<br>Instrumentation                                | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 7-Electrical &<br>Instrumentation                                | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |

|                                |                           |          |              |      |      |      |      |
|--------------------------------|---------------------------|----------|--------------|------|------|------|------|
| 7-Electrical & Instrumentation | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 7-Electrical & Instrumentation | Welders                   | Diesel   | Tier 4 Final | 5.00 | 9.00 | 24.0 | 0.45 |
| 8-Paving                       | Rollers                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 125  | 0.38 |
| 9-Painting/Insulation          | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 12-Decommissioning Demolition  | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 2-Existing Project Site Demo   | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 107  | 0.37 |
| 2-Existing Project Site Demo   | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 2-Existing Project Site Demo   | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 2-Existing Project Site Demo   | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 2-Existing Project Site Demo   | Skid Steer Loaders        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 65.0 | 0.37 |
| 2-Existing Project Site Demo   | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 12-Decommissioning Demolition  | Aerial Lifts              | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 12-Decommissioning Demolition  | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 12-Decommissioning Demolition  | Forklifts                 | Diesel   | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 12-Decommissioning Demolition  | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 12-Decommissioning Demolition  | Generator Sets            | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 12-Decommissioning Demolition  | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 225  | 0.37 |

|  |                           |          |              |      |      |      |      |
|--|---------------------------|----------|--------------|------|------|------|------|
| 12-Decommissioning Demolition          | Welders                   | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.45 |
| 12-Decommissioning Demolition          | Welders                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 24.0 | 0.45 |
| 1-Subsurface Exploration               | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration               | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 1-Subsurface Exploration               | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 1-Subsurface Exploration               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 1-Subsurface Exploration               | Bore/Drill Rigs           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 300  | 0.50 |
| 3-Site Preparation/ Rough Grading      | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 3-Site Preparation/ Rough Grading      | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                          | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 4-Foundations                          | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 107  | 0.37 |
| 4-Foundations                          | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 4-Foundations                          | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations                          | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 346  | 0.38 |
| 4-Foundations                          | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 4-Foundations                          | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                          | Rubber Tired Dozers       | Diesel   | Tier 4 Final | 1.00 | 9.00 | 170  | 0.40 |
| 10-Commissioning / Startup and Testing | Welders                   | Electric | Average      | 2.00 | 9.00 | 46.0 | 0.45 |
| 10-Commissioning / Startup and Testing | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |

|  |                 |          |              |      |      |      |      |
|--|-----------------|----------|--------------|------|------|------|------|
| 10-Commissioning / Startup and Testing                     | Air Compressors | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 10-Commissioning / Startup and Testing                     | Aerial Lifts    | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes          | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts       | Diesel   | Tier 4 Final | 1.00 | 9.00 | 122  | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts       | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders         | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 84.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 67.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts    | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Excavators      | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |

|  |                    |          |              |      |      |      |      |
|--|--------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 7-Electrical & Instrumentation                             | Cranes             | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts          | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Welders            | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Aerial Lifts       | Electric | Average      | 4.00 | 9.00 | 46.0 | 0.31 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 9-Painting/Insulation                                      | Generator Sets     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 5-Trenching/Underground s                                  | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 5-Trenching/Underground s                                  | Pumps              | Diesel   | Tier 4 Final | 4.00 | 9.00 | 11.0 | 0.74 |

### 5.2.2. Mitigated

| Phase Name                        | Equipment Type            | Fuel Type | Engine Tier  | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------------------|---------------------------|-----------|--------------|----------------|---------------|------------|-------------|
| 3-Site Preparation/ Rough Grading | Rubber Tired Dozers       | Diesel    | Tier 4 Final | 1.00           | 8.00          | 367        | 0.40        |
| 3-Site Preparation/ Rough Grading | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Final | 3.00           | 9.00          | 107        | 0.37        |
| 4-Foundations                     | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Final | 1.00           | 9.00          | 225        | 0.37        |
| 2-Existing Project Site Demo      | Concrete/Industrial Saws  | Diesel    | Tier 4 Final | 1.00           | 9.00          | 33.0       | 0.73        |

|  |                           |        |              |      |      |      |      |
|--|---------------------------|--------|--------------|------|------|------|------|
| 12-Decommissioning Demolition                              | Concrete/Industrial Saws  | Diesel | Tier 4 Final | 1.00 | 9.00 | 33.0 | 0.73 |
| 12-Decommissioning Demolition                              | Excavators                | Diesel | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration                                   | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 4.00 | 9.00 | 107  | 0.37 |
| 3-Site Preparation/ Rough Grading                          | Excavators                | Diesel | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations  | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 4-Foundations  | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 4-Foundations  | Generator Sets            | Diesel | Tier 4 Final | 4.00 | 9.00 | 49.0 | 0.74 |
| 4-Foundations  | Welders                   | Diesel | Tier 4 Final | 4.00 | 9.00 | 24.0 | 0.45 |
| 10-Commissioning / Startup and Testing                     | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |
| 10-Commissioning / Startup and Testing                     | Forklifts                 | Diesel | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 10-Commissioning / Startup and Testing                     | Generator Sets            | Diesel | Tier 4 Final | 3.00 | 9.00 | 49.0 | 0.74 |
| 10-Commissioning / Startup and Testing                     | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 10-Commissioning / Startup and Testing                     | Welders                   | Diesel | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes                    | Diesel | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts                 | Diesel | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Generator Sets            | Diesel | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Tractors/Loaders/Backhoes | Diesel | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |

|  |                           |          |              |      |      |      |      |
|--|---------------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders                   | Diesel   | Tier 4 Final | 3.00 | 9.00 | 24.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 200  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts                 | Diesel   | Tier 4 Final | 2.00 | 9.00 | 74.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Generator Sets            | Diesel   | Tier 4 Final | 5.00 | 9.00 | 49.0 | 0.74 |
| 7-Electrical & Instrumentation                             | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 225  | 0.37 |
| 7-Electrical & Instrumentation                             | Welders                   | Diesel   | Tier 4 Final | 5.00 | 9.00 | 24.0 | 0.45 |
| 8-Paving   | Rollers                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 125  | 0.38 |
| 9-Painting/Insulation                                      | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 12-Decommissioning Demolition                              | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 2-Existing Project Site Demo                               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 107  | 0.37 |
| 2-Existing Project Site Demo                               | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 2-Existing Project Site Demo                               | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 2-Existing Project Site Demo                               | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 2-Existing Project Site Demo                               | Skid Steer Loaders        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 65.0 | 0.37 |
| 2-Existing Project Site Demo                               | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 12-Decommissioning Demolition                              | Aerial Lifts              | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 12-Decommissioning Demolition                              | Cranes                    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 275  | 0.29 |

|                                  |                           |          |              |      |      |      |      |
|----------------------------------|---------------------------|----------|--------------|------|------|------|------|
| 12-Decommissioning Demolition    | Forklifts                 | Diesel   | Tier 4 Final | 1.00 | 9.00 | 74.0 | 0.20 |
| 12-Decommissioning Demolition    | Forklifts                 | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 12-Decommissioning Demolition    | Generator Sets            | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 12-Decommissioning Demolition    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 225  | 0.37 |
| 12-Decommissioning Demolition    | Welders                   | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.45 |
| 12-Decommissioning Demolition    | Welders                   | Diesel   | Tier 4 Final | 1.00 | 9.00 | 24.0 | 0.45 |
| 1-Subsurface Exploration         | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 1-Subsurface Exploration         | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 1-Subsurface Exploration         | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 1-Subsurface Exploration         | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 1-Subsurface Exploration         | Bore/Drill Rigs           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 300  | 0.50 |
| 3-Site Preparation/Rough Grading | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 2.00 | 0.48 |
| 3-Site Preparation/Rough Grading | Off-Highway Trucks        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations                    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 1.00 | 9.00 | 321  | 0.37 |
| 4-Foundations                    | Tractors/Loaders/Backhoes | Diesel   | Tier 4 Final | 2.00 | 9.00 | 107  | 0.37 |
| 4-Foundations                    | Air Compressors           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 10.0 | 0.48 |
| 4-Foundations                    | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 4-Foundations                    | Excavators                | Diesel   | Tier 4 Final | 1.00 | 9.00 | 346  | 0.38 |

|  |                     |          |              |      |      |      |      |
|--|---------------------|----------|--------------|------|------|------|------|
| 4-Foundations  | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 4-Foundations  | Off-Highway Trucks  | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 4-Foundations  | Rubber Tired Dozers | Diesel   | Tier 4 Final | 1.00 | 9.00 | 170  | 0.40 |
| 10-Commissioning / Startup and Testing                     | Welders             | Electric | Average      | 2.00 | 9.00 | 46.0 | 0.45 |
| 10-Commissioning / Startup and Testing                     | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 10-Commissioning / Startup and Testing                     | Air Compressors     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 10-Commissioning / Startup and Testing                     | Aerial Lifts        | Electric | Average      | 1.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Cranes              | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts           | Diesel   | Tier 4 Final | 1.00 | 9.00 | 122  | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Forklifts           | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Welders             | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Diesel   | Tier 4 Final | 1.00 | 9.00 | 84.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Diesel   | Tier 4 Final | 2.00 | 9.00 | 67.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Aerial Lifts        | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.31 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |

|  |                    |          |              |      |      |      |      |
|--|--------------------|----------|--------------|------|------|------|------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 7-Electrical & Instrumentation                             | Cranes             | Diesel   | Tier 4 Final | 2.00 | 9.00 | 275  | 0.29 |
| 7-Electrical & Instrumentation                             | Forklifts          | Electric | Average      | 1.00 | 9.00 | 82.0 | 0.20 |
| 7-Electrical & Instrumentation                             | Welders            | Electric | Average      | 5.00 | 9.00 | 46.0 | 0.45 |
| 7-Electrical & Instrumentation                             | Aerial Lifts       | Electric | Average      | 4.00 | 9.00 | 46.0 | 0.31 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Air Compressors    | Diesel   | Tier 4 Final | 2.00 | 9.00 | 10.0 | 0.48 |
| 7-Electrical & Instrumentation                             | Off-Highway Trucks | Diesel   | Tier 4 Final | 1.00 | 9.00 | 500  | 0.38 |
| 9-Painting/Insulation                                      | Generator Sets     | Diesel   | Tier 4 Final | 1.00 | 9.00 | 49.0 | 0.74 |
| 5-Trenching/Underground s                                  | Excavators         | Diesel   | Tier 4 Final | 1.00 | 9.00 | 45.0 | 0.38 |
| 5-Trenching/Underground s                                  | Pumps              | Diesel   | Tier 4 Final | 4.00 | 9.00 | 11.0 | 0.74 |

### 5.3. Construction Vehicles

#### 5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|------------|-----------|-----------------------|----------------|-------------|
|------------|-----------|-----------------------|----------------|-------------|

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 1-Subsurface Exploration                                   | —            | —    | —    | —             |
| 1-Subsurface Exploration                                   | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 1-Subsurface Exploration                                   | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 1-Subsurface Exploration                                   | Hauling      | 13.0 | 296  | HHDT          |
| 1-Subsurface Exploration                                   | Onsite truck | —    | —    | HHDT          |
| 3-Site Preparation/ Rough Grading                          | —            | —    | —    | —             |
| 3-Site Preparation/ Rough Grading                          | Worker       | 30.0 | 10.0 | LDA,LDT1,LDT2 |
| 3-Site Preparation/ Rough Grading                          | Vendor       | 10.0 | 10.0 | HHDT,MHDT     |
| 3-Site Preparation/ Rough Grading                          | Hauling      | 8.00 | 296  | HHDT          |
| 3-Site Preparation/ Rough Grading                          | Onsite truck | —    | —    | HHDT          |
| 4-Foundations  | —            | —    | —    | —             |
| 4-Foundations  | Worker       | 68.0 | 10.0 | LDA,LDT1,LDT2 |
| 4-Foundations  | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 4-Foundations  | Hauling      | 25.0 | 296  | HHDT          |
| 4-Foundations  | Onsite truck | —    | —    | HHDT          |
| 5-Trenching/Undergrounds                                   | —            | —    | —    | —             |
| 5-Trenching/Undergrounds                                   | Worker       | 46.0 | 10.0 | LDA,LDT1,LDT2 |
| 5-Trenching/Undergrounds                                   | Vendor       | 2.00 | 10.0 | HHDT,MHDT     |
| 5-Trenching/Undergrounds                                   | Hauling      | 16.0 | 296  | HHDT          |
| 5-Trenching/Undergrounds                                   | Onsite truck | —    | —    | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | —            | —    | —    | —             |
| 6-Equipment , Structural Steel & Building Erection, Piping | Worker       | 78.0 | 10.0 | LDA,LDT1,LDT2 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Vendor       | 22.0 | 10.0 | HHDT,MHDT     |
| 6-Equipment , Structural Steel & Building Erection, Piping | Hauling      | 0.00 | 20.0 | HHDT          |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 6-Equipment , Structural Steel & Building Erection, Piping | Onsite truck | —    | —    | HHDT          |
| 7-Electrical & Instrumentation                             | —            | —    | —    | —             |
| 7-Electrical & Instrumentation                             | Worker       | 36.0 | 10.0 | LDA,LDT1,LDT2 |
| 7-Electrical & Instrumentation                             | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 7-Electrical & Instrumentation                             | Hauling      | 0.00 | 20.0 | HHDT          |
| 7-Electrical & Instrumentation                             | Onsite truck | —    | —    | HHDT          |
| 2-Existing Project Site Demo                               | —            | —    | —    | —             |
| 2-Existing Project Site Demo                               | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 2-Existing Project Site Demo                               | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 2-Existing Project Site Demo                               | Hauling      | 47.5 | 20.0 | HHDT          |
| 2-Existing Project Site Demo                               | Onsite truck | —    | —    | HHDT          |
| 8-Paving   | —            | —    | —    | —             |
| 8-Paving   | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 8-Paving   | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 8-Paving   | Hauling      | 0.00 | 20.0 | HHDT          |
| 8-Paving   | Onsite truck | —    | —    | HHDT          |
| 12-Decommissioning Demolition                              | —            | —    | —    | —             |
| 12-Decommissioning Demolition                              | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 12-Decommissioning Demolition                              | Vendor       | 18.0 | 10.0 | HHDT,MHDT     |
| 12-Decommissioning Demolition                              | Hauling      | 3.37 | 20.0 | HHDT          |
| 12-Decommissioning Demolition                              | Onsite truck | —    | —    | HHDT          |
| 10-Commissioning / Startup and Testing                     | —            | —    | —    | —             |
| 10-Commissioning / Startup and Testing                     | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 10-Commissioning / Startup and Testing                     | Vendor       | 12.0 | 10.0 | HHDT,MHDT     |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 10-Commissioning / Startup and Testing | Hauling      | 0.00 | 20.0 | HHDT          |
| 10-Commissioning / Startup and Testing | Onsite truck | —    | —    | HHDT          |
| 9-Painting/Insulation                  | —            | —    | —    | —             |
| 9-Painting/Insulation                  | Worker       | 4.00 | 10.0 | LDA,LDT1,LDT2 |
| 9-Painting/Insulation                  | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 9-Painting/Insulation                  | Hauling      | 0.00 | 20.0 | HHDT          |
| 9-Painting/Insulation                  | Onsite truck | —    | —    | HHDT          |

### 5.3.2. Mitigated

| Phase Name                        | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|-----------------------------------|--------------|-----------------------|----------------|---------------|
| 1-Subsurface Exploration          | —            | —                     | —              | —             |
| 1-Subsurface Exploration          | Worker       | 28.0                  | 10.0           | LDA,LDT1,LDT2 |
| 1-Subsurface Exploration          | Vendor       | 8.00                  | 10.0           | HHDT,MHDT     |
| 1-Subsurface Exploration          | Hauling      | 13.0                  | 296            | HHDT          |
| 1-Subsurface Exploration          | Onsite truck | —                     | —              | HHDT          |
| 3-Site Preparation/ Rough Grading | —            | —                     | —              | —             |
| 3-Site Preparation/ Rough Grading | Worker       | 30.0                  | 10.0           | LDA,LDT1,LDT2 |
| 3-Site Preparation/ Rough Grading | Vendor       | 10.0                  | 10.0           | HHDT,MHDT     |
| 3-Site Preparation/ Rough Grading | Hauling      | 8.00                  | 296            | HHDT          |
| 3-Site Preparation/ Rough Grading | Onsite truck | —                     | —              | HHDT          |
| 4-Foundations                     | —            | —                     | —              | —             |
| 4-Foundations                     | Worker       | 68.0                  | 10.0           | LDA,LDT1,LDT2 |
| 4-Foundations                     | Vendor       | 16.0                  | 10.0           | HHDT,MHDT     |
| 4-Foundations                     | Hauling      | 25.0                  | 296            | HHDT          |
| 4-Foundations                     | Onsite truck | —                     | —              | HHDT          |
| 5-Trenching/Undergrounds          | —            | —                     | —              | —             |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 5-Trenching/Undergrounds                                   | Worker       | 46.0 | 10.0 | LDA,LDT1,LDT2 |
| 5-Trenching/Undergrounds                                   | Vendor       | 2.00 | 10.0 | HHDT,MHDT     |
| 5-Trenching/Undergrounds                                   | Hauling      | 16.0 | 296  | HHDT          |
| 5-Trenching/Undergrounds                                   | Onsite truck | —    | —    | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | —            | —    | —    | —             |
| 6-Equipment , Structural Steel & Building Erection, Piping | Worker       | 78.0 | 10.0 | LDA,LDT1,LDT2 |
| 6-Equipment , Structural Steel & Building Erection, Piping | Vendor       | 22.0 | 10.0 | HHDT,MHDT     |
| 6-Equipment , Structural Steel & Building Erection, Piping | Hauling      | 0.00 | 20.0 | HHDT          |
| 6-Equipment , Structural Steel & Building Erection, Piping | Onsite truck | —    | —    | HHDT          |
| 7-Electrical & Instrumentation                             | —            | —    | —    | —             |
| 7-Electrical & Instrumentation                             | Worker       | 36.0 | 10.0 | LDA,LDT1,LDT2 |
| 7-Electrical & Instrumentation                             | Vendor       | 16.0 | 10.0 | HHDT,MHDT     |
| 7-Electrical & Instrumentation                             | Hauling      | 0.00 | 20.0 | HHDT          |
| 7-Electrical & Instrumentation                             | Onsite truck | —    | —    | HHDT          |
| 2-Existing Project Site Demo                               | —            | —    | —    | —             |
| 2-Existing Project Site Demo                               | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 2-Existing Project Site Demo                               | Vendor       | 8.00 | 10.0 | HHDT,MHDT     |
| 2-Existing Project Site Demo                               | Hauling      | 47.5 | 20.0 | HHDT          |
| 2-Existing Project Site Demo                               | Onsite truck | —    | —    | HHDT          |
| 8-Paving   | —            | —    | —    | —             |
| 8-Paving   | Worker       | 22.0 | 10.0 | LDA,LDT1,LDT2 |
| 8-Paving   | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 8-Paving   | Hauling      | 0.00 | 20.0 | HHDT          |
| 8-Paving   | Onsite truck | —    | —    | HHDT          |

|  |              |      |      |               |
|--|--------------|------|------|---------------|
| 12-Decommissioning Demolition          | —            | —    | —    | —             |
| 12-Decommissioning Demolition          | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 12-Decommissioning Demolition          | Vendor       | 18.0 | 10.0 | HHDT,MHDT     |
| 12-Decommissioning Demolition          | Hauling      | 3.37 | 20.0 | HHDT          |
| 12-Decommissioning Demolition          | Onsite truck | —    | —    | HHDT          |
| 10-Commissioning / Startup and Testing | —            | —    | —    | —             |
| 10-Commissioning / Startup and Testing | Worker       | 28.0 | 10.0 | LDA,LDT1,LDT2 |
| 10-Commissioning / Startup and Testing | Vendor       | 12.0 | 10.0 | HHDT,MHDT     |
| 10-Commissioning / Startup and Testing | Hauling      | 0.00 | 20.0 | HHDT          |
| 10-Commissioning / Startup and Testing | Onsite truck | —    | —    | HHDT          |
| 9-Painting/Insulation                  | —            | —    | —    | —             |
| 9-Painting/Insulation                  | Worker       | 4.00 | 10.0 | LDA,LDT1,LDT2 |
| 9-Painting/Insulation                  | Vendor       | —    | 10.0 | HHDT,MHDT     |
| 9-Painting/Insulation                  | Hauling      | 0.00 | 20.0 | HHDT          |
| 9-Painting/Insulation                  | Onsite truck | —    | —    | HHDT          |

## 5.4. Vehicles

### 5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

## 5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|--|--|--|--|-----------------------------|
| 9-Painting/Insulation | 0.00                                     | 0.00                                     | 34,524                                       | 11,508                                       | 20,626                      |

## 5.6. Dust Mitigation

### 5.6.1. Construction Earthmoving Activities

| Phase Name                        | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|-----------------------------------|---------------------------------|---------------------------------|----------------------|-------------------------------------|---------------------|
| 2-Existing Project Site Demo      | 0.00                            | 0.00                            | 0.00                 | 2,092                               | —                   |
| 12-Decommissioning Demolition     | 0.00                            | 0.00                            | 0.00                 | 19,000                              | —                   |
| 1-Subsurface Exploration          | —                               | 500                             | 0.00                 | 0.00                                | —                   |
| 3-Site Preparation/ Rough Grading | —                               | 1,500                           | 26.0                 | 0.00                                | —                   |
| 8-Paving                          | 0.00                            | 0.00                            | 0.00                 | 0.00                                | 7.89                |
| 5-Trenching/Undergrounds          | —                               | 10,000                          | 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%             |
| Water Demolished Area      | 2                   | 36%            | 36%             |

## 5.7. Construction Paving

| Land Use                | Area Paved (acres) | % Asphalt |
|-------------------------|--------------------|-----------|
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Heavy Industry  | 0.00               | 0%        |
| General Office Building | 0.00               | 0%        |
| Other Asphalt Surfaces  | 7.89               | 100%      |

## 5.8. Construction Electricity Consumption and Emissions Factors

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

| Year | kWh per Year | CO2 | CH4  | N2O     |
|------|--------------|-----|------|---------|
| 2029 | 1,393        | 532 | 0.03 | < 0.005 |
| 2030 | 2,581        | 532 | 0.03 | < 0.005 |
| 2032 | 345          | 532 | 0.03 | < 0.005 |
| 2031 | 1,671        | 532 | 0.03 | < 0.005 |

## 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 | 12.5                        | annual days of extreme heat                |
| Extreme Precipitation        | 5.45                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | 0.00                        | meters of inundation depth                 |
| Wildfire                     | 15.3                        | 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 (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth 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 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.

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 | 1              | 0                 | 0                       | N/A                 |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 0                 | 0                       | N/A                 |
| Wildfire                     | 1              | 0                 | 0                       | N/A                 |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 0              | 0                 | 0                       | 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 | 1              | 1                 | 1                       | 2                   |
| Extreme Precipitation        | N/A            | N/A               | N/A                     | N/A                 |
| Sea Level Rise               | 1              | 1                 | 1                       | 2                   |
| Wildfire                     | 1              | 1                 | 1                       | 2                   |
| Flooding                     | N/A            | N/A               | N/A                     | N/A                 |
| Drought                      | N/A            | N/A               | N/A                     | N/A                 |
| Snowpack Reduction           | N/A            | N/A               | N/A                     | N/A                 |
| Air Quality Degradation      | 1              | 1                 | 1                       | 2                   |

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                        | 26.8                            |
| AQ-PM                           | 29.0                            |
| AQ-DPM                          | 50.7                            |
| Drinking Water                  | 65.5                            |
| Lead Risk Housing               | 78.7                            |
| Pesticides                      | 97.0                            |
| Toxic Releases                  | 17.6                            |
| Traffic                         | 38.6                            |
| Effect Indicators               | —                               |
| CleanUp Sites                   | 83.5                            |
| Groundwater                     | 89.6                            |
| Haz Waste Facilities/Generators | 88.6                            |
| Impaired Water Bodies           | 58.7                            |
| Solid Waste                     | 35.7                            |
| Sensitive Population            | —                               |
| Asthma                          | 61.2                            |
| Cardio-vascular                 | 27.2                            |

|                                 |      |
|---------------------------------|------|
| Low Birth Weights               | 58.6 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 89.7 |
| Housing                         | 82.4 |
| Linguistic                      | 74.1 |
| Poverty                         | 77.2 |
| Unemployment                    | 60.6 |

## 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          | 22.12241755                     |
| Employed               | 50.32721673                     |
| Median HI              | 32.6318491                      |
| Education              | —                               |
| Bachelor's or higher   | 25.84370589                     |
| High school enrollment | 3.387655588                     |
| Preschool enrollment   | 66.45707686                     |
| Transportation         | —                               |
| Auto Access            | 44.50147568                     |
| Active commuting       | 49.108174                       |
| Social                 | —                               |
| 2-parent households    | 84.48607725                     |
| Voting                 | 39.86911331                     |
| Neighborhood           | —                               |
| Alcohol availability   | 27.4092134                      |

|  |             |
|--|-------------|
| Park access                                  | 81.35506224 |
| Retail density                               | 61.9658668  |
| Supermarket access                           | 74.04080585 |
| Tree canopy                                  | 11.8311305  |
| Housing                                      | —           |
| Homeownership                                | 29.911459   |
| Housing habitability                         | 29.33401771 |
| Low-inc homeowner severe housing cost burden | 8.648787373 |
| Low-inc renter severe housing cost burden    | 67.81727191 |
| Uncrowded housing                            | 29.05171308 |
| Health Outcomes                              | —           |
| Insured adults                               | 6.83947132  |
| Arthritis                                    | 77.8        |
| Asthma ER Admissions                         | 39.8        |
| High Blood Pressure                          | 51.5        |
| Cancer (excluding skin)                      | 82.6        |
| Asthma                                       | 23.6        |
| Coronary Heart Disease                       | 66.7        |
| Chronic Obstructive Pulmonary Disease        | 37.6        |
| Diagnosed Diabetes                           | 54.0        |
| Life Expectancy at Birth                     | 33.7        |
| Cognitively Disabled                         | 33.5        |
| Physically Disabled                          | 36.0        |
| Heart Attack ER Admissions                   | 36.7        |
| Mental Health Not Good                       | 23.2        |
| Chronic Kidney Disease                       | 45.1        |
| Obesity                                      | 25.8        |

|                                       |      |
|---------------------------------------|------|
| Pedestrian Injuries                   | 57.0 |
| Physical Health Not Good              | 30.9 |
| Stroke                                | 64.5 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 24.0 |
| Current Smoker                        | 23.0 |
| No Leisure Time for Physical Activity | 29.0 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 10.2 |
| SLR Inundation Area                   | 0.0  |
| Children                              | 2.5  |
| Elderly                               | 92.1 |
| English Speaking                      | 15.1 |
| Foreign-born                          | 77.7 |
| Outdoor Workers                       | 4.1  |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 35.5 |
| Traffic Density                       | 42.1 |
| Traffic Access                        | 23.0 |
| Other Indices                         | —    |
| Hardship                              | 70.5 |
| Other Decision Support                | —    |
| 2016 Voting                           | 40.0 |

### 7.3. Overall Health & Equity Scores

| Metric   | Result for Project Census Tract |
|--|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a) | 83.0                            |

|   |      |
|---|------|
| Healthy Places Index Score for Project Location (b)                                 | 27.0 |
| 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    |
|---|------------------|
| Construction: Construction Phases         | Project Specific |
| Construction: Off-Road Equipment          | Project Specific |
| Construction: Trips and VMT               | Project specific |
| Construction: Dust From Material Movement | Project specific |

**ATTACHMENT B – OPERATIONAL CRITERIA POLLUTANT AND TOXIC  
AIR CONTAMINANT EMISSIONS**

**Table B-1: Summary Criteria Pollutants Emissions**

**Table B-1a: Baseline Emissions (tpy)**

| Pollutant        | Existing Gas Compressors | Emergency Generator | Worker Vehicles | Total Baseline Emissions |
|------------------|--------------------------|---------------------|-----------------|--------------------------|
| ROC              | 0.47                     | 0.0002              | 0.0022          | 0.48                     |
| NO <sub>x</sub>  | 2.88                     | 0.004               | 0.0004          | 2.89                     |
| PM <sub>10</sub> | 0.44                     | 0.0004              | 0.0074          | 0.45                     |
| SO <sub>x</sub>  | 0.03                     | 0.00001             | 0.0000          | 0.03                     |
| CO               | 0.60                     | 0.005               | 0.0045          | 0.61                     |

**Table B-1b: Project Emissions (tpy)**

| Pollutant        | New Gas Compressors | New Standby Generator | Worker Vehicles | Total Project Emissions |
|------------------|---------------------|-----------------------|-----------------|-------------------------|
| ROC              | 5.50                | 0.14                  | 0.0029          | 5.64                    |
| NO <sub>x</sub>  | 5.50                | 0.14                  | 0.0005          | 5.64                    |
| PM <sub>10</sub> | 1.24                | 0.04                  | 0.0162          | 1.29                    |
| SO <sub>x</sub>  | 0.08                | 0.002                 | 0.0000          | 0.08                    |
| CO               | 22.00               | 0.56                  | 0.0060          | 22.56                   |

**Table B-1c: Net Project Emissions (tpy)**

| Pollutant        | Total Project Emissions | Total Baseline Emissions | Net Project Emissions (PTE - Baseline) |
|------------------|-------------------------|--------------------------|--|
| ROC              | 5.64                    | 0.48                     | 5.16                                   |
| NO <sub>x</sub>  | 5.64                    | 2.89                     | 2.75                                   |
| PM <sub>10</sub> | 1.29                    | 0.45                     | 0.84                                   |
| SO <sub>x</sub>  | 0.08                    | 0.03                     | 0.06                                   |
| CO               | 22.56                   | 0.61                     | 21.95                                  |

Notes:

Project emissions based on PTE for the 2 new natural gas compressor engines and standby generator

Baseline emissions based on HAE for 2021-2022 for gas compressors and emergency generator

Worker emissions based on 3 vehicles for baseline and 4 for project, calculated from EMFAC2021

**Table B-2: Proposed Natural Gas Compressor Emissions Estimates**

**Table B-2a: Two Waukesha Compressors - Process Information**

| Source                    | Engine Rating (BHP) | HHV Heat Rate (BTU/BHP-hr) | Heat Input (mmBTU/hr) | Default HHV (BTU/cf) | Hourly Process Rate (cf/hr) | Annual Hours (PTE) | Annual Process Rate (mmcf/yr) | Process Description |
|---------------------------|---------------------|----------------------------|-----------------------|----------------------|-----------------------------|--------------------|-------------------------------|---------------------|
| Natural Gas Compressor #1 | 1,900               | 7,880                      | 14.97                 | 1,020                | 14,676                      | 8,760              | 128.56                        | 4SRB w/NSCR         |
| Natural Gas Compressor #2 | 1,900               | 7,880                      | 14.97                 | 1,020                | 14,676                      | 8,760              | 128.56                        | 4SRB w/NSCR         |
| <b>Totals</b>             | <b>3,800</b>        | <b>—</b>                   | <b>29.94</b>          | <b>—</b>             | <b>29,352</b>               | <b>—</b>           | <b>257.12</b>                 | <b>—</b>            |

**Table B-2b: Two Waukesha Compressors - Criteria Pollutant Emissions**

| Pollutant        | BACT EF (lb/mmcf) | Waukesha Compressor 1  |                          | Waukesha Compressor 2  |                          |
|------------------|-------------------|------------------------|--------------------------|------------------------|--------------------------|
|                  |                   | Annual Emissions (tpy) | Hourly Emissions (lb/hr) | Annual Emissions (tpy) | Hourly Emissions (lb/hr) |
| ROC              | 42.8              | 2.75                   | 0.63                     | 2.75                   | 0.63                     |
| NO <sub>x</sub>  | 42.8              | 2.75                   | 0.63                     | 2.75                   | 0.63                     |
| PM <sub>10</sub> | 9.7               | 0.62                   | 0.14                     | 0.62                   | 0.14                     |
| SO <sub>x</sub>  | 0.6               | 0.04                   | 0.01                     | 0.04                   | 0.01                     |
| CO               | 171.2             | 11.00                  | 2.51                     | 11.00                  | 2.51                     |

**Table B-2c: Summary of Compressor Emissions**

| Pollutant        | BACT EF (g/BHP-hr) | BACT EF (lb/mmcf) | BACT Conc. (ppmv @15% O <sub>2</sub> ) [gr/dscf PM <sub>10</sub> ] | New Annual PTE (tpy) | New Hourly PTE (lb/hr) | BACT Reference         |
|------------------|--------------------|-------------------|--|----------------------|------------------------|------------------------|
| ROC              | 0.15               | 42.8              | 32.7   | 5.50                 | 1.26                   | Manf. Guarantee        |
| NO <sub>x</sub>  | 0.15               | 42.8              | 11.4   | 5.50                 | 1.26                   | Manf. Guarantee        |
| PM <sub>10</sub> | 0.034              | 9.7               | 0.0022   | 1.24                 | 0.28                   | AP-42 Table 3.2-3 4SRB |
| SO <sub>x</sub>  | 0.002              | 0.6               | 0.10   | 0.08                 | 0.02                   | AP-42 Table 3.2-3 4SRB |
| CO               | 0.6                | 171.2             | 74.9   | 22.00                | 5.02                   | Vendor data            |

**Table B-3: Proposed Standby Generator Emission Estimates**

**Table B-3a: Waukesha Standby Generator - Process Information**

| Source                | Engine Rating (BHP) | HHV Heat Rate (BTU/BHP-hr) | Heat Input (mmBTU/hr) | Default HHV (BTU/cf) | Hourly Process Rate (cf/hr) | Annual Hours | Annual Process Rate (mmcf/yr) | Process Description |
|-----------------------|---------------------|----------------------------|-----------------------|----------------------|-----------------------------|--------------|-------------------------------|---------------------|
| Waukesha VHP-F3524GSI | 840                 | 8,903                      | 7.48                  | 1,020                | 7,333                       | 1,000        | 7.33                          | 4SRB w/NSCR         |
| <b>Totals</b>         | <b>840</b>          | —                          | <b>7.48</b>           | —                    | <b>7,333</b>                | —            | <b>7.33</b>                   | —                   |

**Table B-3b: Waukesha Standby Generator - Criteria Pollutant Emissions**

| Pollutant        | BACT EF (g/BHP-hr) | BACT EF (lb/mmcf) | BACT Conc. (ppmv @15% O <sub>2</sub> ) [gr/dscf PM <sub>10</sub> ] | Standby Gen. Annual PTE (tons/yr) | Standby Gen. Hourly PTE (lb/hr) | BACT Reference                |
|------------------|--------------------|-------------------|--|-----------------------------------|---------------------------------|-------------------------------|
| ROC              | 0.15               | 37.9              | 29.0   | 0.14                              | 0.28                            | BACT (SCAQMD A/N 359876)      |
| NO <sub>x</sub>  | 0.15               | 37.9              | 10.1   | 0.14                              | 0.28                            | BACT (SCAQMD A/N 359876)      |
| PM <sub>10</sub> | 0.038              | 9.7               | 0.0022   | 0.04                              | 0.07                            | BACT (AP-42 Table 3.2-3 4SRB) |
| SO <sub>x</sub>  | 0.002              | 0.6               | 0.10   | 0.00                              | 0.00                            | BACT (AP-42 Table 3.2-3 4SRB) |
| CO               | 0.6                | 151.5             | 66.2   | 0.56                              | 1.11                            | Vendor data                   |

**Table B-4: Summary of 2021-2022 Natural Gas Compressor Engine Emissions**

**Table B-4a: Historic Fuel Use**

| Year | HP1              | HP2              | HP3              |
|------|------------------|------------------|------------------|
|      | Fuel use (MMscf) | Fuel use (MMscf) | Fuel use (MMscf) |
| 2021 | 26.316           | 29.364           | 28.003           |
| 2022 | 32.076           | 28.276           | 35.150           |

**Table B-4b: Emission Factors (lb/MMscf)**

| Pollutant        | HP1  | HP2  | HP3  |
|------------------|------|------|------|
| ROC              | 16.3 | 8.26 | 7.47 |
| NO <sub>x</sub>  | 55.5 | 58.8 | 77.5 |
| PM <sub>10</sub> | 10   | 10   | 9.7  |
| SO <sub>x</sub>  | 0.6  | 0.6  | 0.6  |
| CO               | 25.6 | 14.1 | 1.38 |

Notes:

1. Emission factors NO<sub>x</sub>, ROC, CO obtained from source tests conducted May 11-12, 2021.
2. Emission factors PM<sub>10</sub>, SO<sub>x</sub> from AP-42 Table 3.2-3.

**Table B-4c: 2021 Compressor Emissions (tpy)**

| Pollutant        | HP1  | HP2  | HP3  | Total |
|------------------|------|------|------|-------|
| ROC              | 0.21 | 0.12 | 0.10 | 0.44  |
| NO <sub>x</sub>  | 0.73 | 0.86 | 1.09 | 2.68  |
| PM <sub>10</sub> | 0.13 | 0.15 | 0.14 | 0.41  |
| SO <sub>x</sub>  | 0.01 | 0.01 | 0.01 | 0.03  |
| CO               | 0.34 | 0.21 | 0.02 | 0.56  |

**Table B-4d: 2022 Compressor Emissions (tpy)**

| Pollutant        | HP1  | HP2  | HP3  | Total |
|------------------|------|------|------|-------|
| ROC              | 0.26 | 0.12 | 0.13 | 0.51  |
| NO <sub>x</sub>  | 0.89 | 0.83 | 1.36 | 3.08  |
| PM <sub>10</sub> | 0.16 | 0.14 | 0.17 | 0.47  |
| SO <sub>x</sub>  | 0.01 | 0.01 | 0.01 | 0.03  |
| CO               | 0.41 | 0.20 | 0.02 | 0.63  |

**Table B-4e: 2021/2022 Historic Average Compressor Emissions**

| Pollutant        | Compressor Engines Emissions (tpy) |
|------------------|------------------------------------|
| ROC              | 0.47                               |
| NO <sub>x</sub>  | 2.88                               |
| PM <sub>10</sub> | 0.44                               |
| SO <sub>x</sub>  | 0.03                               |
| CO               | 0.60                               |

Notes:

Baseline emissions based on HAE for 2021-2022 for natural gas compressors  
From SoCalGas

**Table B-5: Existing Emergency Generator Emission Estimates**

**Table B-5a: Cummins Emergency Generator - Process Information**

| Source                 | Engine Rating (BHP) | HHV Heat Rate (BTU/BHP-hr) | Heat Input (mmBTU/hr) | Default HHV (BTU/gal) | Hourly Process Rate (gal/hr) | Actual Average Fuel use (gal/yr) | Average Annual Hours | Process Description |
|------------------------|---------------------|----------------------------|-----------------------|-----------------------|------------------------------|----------------------------------|----------------------|---------------------|
| Cummins Model 4B3.9-G2 | 68                  | 7,000                      | 0.48                  | 137,000               | 3.50                         | 61.26                            | 17.5                 | Diesel 4SLB         |
| <b>Totals</b>          | <b>68</b>           | —                          | <b>0.48</b>           | —                     | <b>3.5</b>                   |                                  | —                    | —                   |

**Table B-5b: Cummins Emergency Generator - Criteria Pollutant Emissions**

| Pollutant                    | BACT EF (g/BHP-hr) | BACT Reference | Cummins Model 4B3.9-G2 |                          |
|------------------------------|--------------------|----------------|------------------------|--------------------------|
|                              |                    |                | Annual Emissions (tpy) | Hourly Emissions (lb/hr) |
| ROC <sup>1</sup>             | 0.18               | Tier 3         | 0.0002                 | 0.03                     |
| NO <sub>x</sub> <sup>1</sup> | 3.33               | Tier 3         | 0.0044                 | 0.50                     |
| PM <sub>10</sub>             | 0.30               | Tier 3         | 0.0004                 | 0.04                     |
| SO <sub>x</sub>              | 0.2 lb/1000gal     | SCAQMD AER     | 6.43E-06               | 7.36E-04                 |
| CO                           | 3.70               | Tier 3         | 0.005                  | 0.55                     |

Note: 1. Tier 3 EF for NO<sub>x</sub> + ROC = 3.5 g/BHP-hr; assume NO<sub>x</sub> is 95% and ROC is 5% per BAAQMD guidance:  
[https://www.baaqmd.gov/~media/files/engineering/policy\\_and\\_procedures/engines/emissionfactorsfordieselenines.pdf](https://www.baaqmd.gov/~media/files/engineering/policy_and_procedures/engines/emissionfactorsfordieselenines.pdf)

**Table B-5c: Emergency Generator Fuel Use**

| Year | Diesel (gal/yr) |
|------|-----------------|
| 2021 | 103.39          |
| 2022 | 19.12           |

**Table B-6: Worker Commute Exhaust Emission Estimates**

**Table B-6a: VCM Worker Commuting Mobile Source Emissions - Baseline (3 workers)**

| Criteria Pollutants | Daily (lbs/day) | Annual (tons/yr) |
|---------------------|-----------------|------------------|
| ROC                 | 0.0166          | 0.0022           |
| NO <sub>x</sub>     | 0.0030          | 0.0004           |
| CO                  | 0.0344          | 0.0045           |
| SO <sub>x</sub>     | 0.0000          | 0.0000           |
| PM <sub>10</sub>    | 0.0569          | 0.0074           |
| PM <sub>2.5</sub>   | 0.0143          | 0.0019           |

Sources: EMFAC2021, EPA 2011

Notes:

Aggregated LDA, LDT1, LDT2 mix for 2031; gasoline fuel

PM<sub>10</sub> & PM<sub>2.5</sub> include engine exhaust, tire & brake wear, and fugitive road dust

Baseline assumes 3 workers in 3 vehicles

Daily VMT = 192 miles/day (6 trips x 32 miles one-way in Ventura County)

**Table B-6b: VCM Worker Commuting Mobile Source Emissions - Project (4 workers)**

| Criteria Pollutants | Daily (lbs/day) | Annual (tons/yr) |
|---------------------|-----------------|------------------|
| ROC                 | 0.0221          | 0.0029           |
| NO <sub>x</sub>     | 0.0040          | 0.0005           |
| CO                  | 0.0458          | 0.0060           |
| SO <sub>x</sub>     | 0.0000          | 0.0000           |
| PM <sub>10</sub>    | 0.0759          | 0.0099           |
| PM <sub>2.5</sub>   | 0.0191          | 0.0025           |

Sources: EMFAC2021, EPA 2011

Notes:

Aggregated LDA, LDT1, LDT2 mix for 2031; gasoline fuel

PM<sub>10</sub> & PM<sub>2.5</sub> include engine exhaust, tire & brake wear, and fugitive road dust

Project assumes 4 workers in 4 vehicles

Daily VMT = 256 miles/day (8 trips x 32 miles one-way in Ventura County)

**Table B-6c: VCM Worker Commuting Mobile Source Emissions - Project Increase (from 3 to 4 workers)**

| Criteria Pollutants | Daily (lbs/day) | Annual (tons/yr) |
|---------------------|-----------------|------------------|
| ROC                 | 0.0055          | 0.0007           |
| NO <sub>x</sub>     | 0.0010          | 0.0001           |
| CO                  | 0.0115          | 0.0015           |
| SO <sub>x</sub>     | 0.0000          | 0.0000           |
| PM <sub>10</sub>    | 0.0190          | 0.0025           |
| PM <sub>2.5</sub>   | 0.0048          | 0.0006           |

**Table B-7: Worker Commute Fugitive Dust Emission Estimates**

**Table B-7a: Road and Vehicle Data**

| All Roads Traveled                       | Vehicle Category | Weight Class<br>Tons | Activity |        | Usage |         |
|--|------------------|----------------------|----------|--------|-------|---------|
|  |                  |                      | Daily    | Annual | Paved | Unpaved |
|  |                  |                      | VMT      | VMT    | %     | %       |
| <b>Phase 1</b>                           |                  |                      |          |        |       |         |
| Passenger Cars/Smaller SUVs              | LDA              | 2                    | 122      | 31,782 | 100%  | 0%      |
| Standard-Duty Pickup Trucks/Midsize SUVs | LDT1             | 3                    | 9        | 2,404  | 100%  | 0%      |
| Heavy-Duty Pickup Trucks/Larger SUVs     | LDT2             | 4                    | 61       | 15,734 | 100%  | 0%      |
| Work/Trade Trucks                        | MDT              | 5                    |          |        | 100%  | 0%      |
| Light Heavy-Duty Trucks 1                | LHDT1            | 8                    |          |        | 100%  | 0%      |
| Light Heavy-Duty Trucks 2                | LHDT2            | 10                   |          |        | 100%  | 0%      |
| Medium Heavy-Duty Trucks                 | MHDT             | 15                   |          |        | 100%  | 0%      |
| Heavy Heavy-Duty Trucks                  | HHDT             | 30                   |          |        | 100%  | 0%      |

**Table B-7b: Paved Road Dust Emission Estimates**

| Paved Road Dust                          | Vehicle Category | Activity |        | Required Variables |              |                  |            |           |            | Uncontrolled     |                   | Controlled Emissions |                  |                   |                  |                   |
|--|------------------|----------|--------|--------------------|--------------|------------------|------------|-----------|------------|------------------|-------------------|----------------------|------------------|-------------------|------------------|-------------------|
|  |                  | Daily    | Annual | EET                | Moisture (M) | Silt Load (sL)   | Weight (W) | Speed (S) | Precip (P) | PM <sub>10</sub> | PM <sub>2.5</sub> | Control              | PM <sub>10</sub> | PM <sub>2.5</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
|  |                  | VMT      | VMT    | code               | percent      | g/m <sup>2</sup> | tons       | mph       | days/yr    | lbs/VMT          | lbs/VMT           | %                    | lbs/day          | lbs/day           | lbs/yr           | lbs/yr            |
| <b>Phase 1</b>                           |                  |          |        |                    |              |                  |            |           |            |                  |                   |                      |                  |                   |                  |                   |
| Passenger Cars/Smaller SUVs              | LDA              | 122      | 31,782 | G                  | —            | 0.032            | 2          | —         | 40         | 0.00019          | 0.00005           | —                    | 0.02             | 0.01              | 6.0              | 1.5               |
| Standard-Duty Pickup Trucks/Midsize SUVs | LDT1             | 9        | 2,404  | G                  | —            | 0.032            | 3          | —         | 40         | 0.00029          | 0.00007           | —                    | 0.00             | 0.00              | 0.7              | 0.2               |
| Heavy-Duty Pickup Trucks/Larger SUVs     | LDT2             | 61       | 15,734 | G                  | —            | 0.032            | 4          | —         | 40         | 0.00039          | 0.00010           | —                    | 0.02             | 0.01              | 6.0              | 1.5               |
| Work/Trade Trucks                        | MDT              | -        | -      | G                  | —            | 0.032            | 5          | —         | 40         | 0.00050          | 0.00012           | —                    | -                | -                 | -                | -                 |
| Light Heavy-Duty Trucks 1                | LHDT1            | -        | -      | G                  | —            | 0.032            | 8          | —         | 40         | 0.00080          | 0.00020           | —                    | -                | -                 | -                | -                 |
| Light Heavy-Duty Trucks 2                | LHDT2            | -        | -      | G                  | —            | 0.032            | 10         | —         | 40         | 0.00100          | 0.00025           | —                    | -                | -                 | -                | -                 |
| Medium Heavy-Duty Trucks                 | MHDT             | -        | -      | G                  | —            | 0.032            | 15         | —         | 40         | 0.00152          | 0.00037           | —                    | -                | -                 | -                | -                 |
| Heavy Heavy-Duty Trucks                  | HHDT             | -        | -      | G                  | —            | 0.032            | 30         | —         | 40         | 0.00308          | 0.00076           | —                    | -                | -                 | -                | -                 |

**Table B-7b: Unpaved Road Dust Emission Estimates**

| Unpaved Road Dust                        | Vehicle Category | Activity |        | Required Variables |              |          |            |           |            | Uncontrolled     |                   | Controlled Emissions     |                  |                   |                  |                   |
|--|------------------|----------|--------|--------------------|--------------|----------|------------|-----------|------------|------------------|-------------------|--------------------------|------------------|-------------------|------------------|-------------------|
|  |                  | Daily    | Annual | EET                | Moisture (M) | Silt (s) | Weight (W) | Speed (S) | Precip (P) | PM <sub>10</sub> | PM <sub>2.5</sub> | Control                  | PM <sub>10</sub> | PM <sub>2.5</sub> | PM <sub>10</sub> | PM <sub>2.5</sub> |
|  |                  | VMT      | VMT    | code               | percent      | percent  | tons       | mph       | days/yr    | lbs/VMT          | lbs/VMT           | %                        | lbs/day          | lbs/day           | lbs/yr           | lbs/yr            |
| <b>Phase 1</b>                           |                  |          |        |                    |              |          |            |           |            |                  |                   |                          |                  |                   |                  |                   |
| Passenger Cars/Smaller SUVs              | LDA              | -        | -      | H                  | 7            | 8        | 2          | 15        | 40         | 0.68388          | 0.06823           | 56.3%                    | -                | -                 | -                | -                 |
| Standard-Duty Pickup Trucks/Midsize SUVs | LDT1             | -        | -      | H                  | 7            | 8        | 3          | 15        | 40         | 0.77073          | 0.07692           | 56.3%                    | -                | -                 | -                | -                 |
| Heavy-Duty Pickup Trucks/Larger SUVs     | LDT2             | -        | -      | H                  | 7            | 8        | 4          | 15        | 40         | 0.84269          | 0.08411           | 56.3%                    | -                | -                 | -                | -                 |
| Work/Trade Trucks                        | MDT              | -        | -      | H                  | 7            | 8        | 5          | 15        | 40         | 0.90529          | 0.09037           | 56.3%                    | -                | -                 | -                | -                 |
| Light Heavy-Duty Trucks 1                | LHDT1            | -        | -      | H                  | 7            | 8        | 8          | 15        | 40         | 1.05963          | 0.10581           | 56.3%                    | -                | -                 | -                | -                 |
| Light Heavy-Duty Trucks 2                | LHDT2            | -        | -      | H                  | 7            | 8        | 10         | 15        | 40         | 1.14514          | 0.11436           | 56.3%                    | -                | -                 | -                | -                 |
| Medium Heavy-Duty Trucks                 | MHDT             | -        | -      | H                  | 7            | 8        | 15         | 15        | 40         | 1.32431          | 0.13227           | 56.3%                    | -                | -                 | -                | -                 |
| Heavy Heavy-Duty Trucks                  | HHDT             | -        | -      | H                  | 7            | 8        | 30         | 15        | 40         | 1.71754          | 0.17160           | 56.3%                    | -                | -                 | -                | -                 |
|  |                  |          |        |                    |              |          |            |           |            |                  |                   | <b>FPM<sub>10</sub></b>  | <b>0.05</b>      | <b>lbs/day</b>    | <b>12.74</b>     | <b>lbs/yr</b>     |
|  |                  |          |        |                    |              |          |            |           |            |                  |                   | <b>FPM<sub>2.5</sub></b> | <b>0.01</b>      | <b>lbs/day</b>    | <b>3.13</b>      | <b>lbs/yr</b>     |

**Table B-8: Proposed Natural Gas Compressor TAC Emissions**

**Table B-8a: Waukesha Compressors - Process Information**

| Source                 | Rating (HP) | Design Value (MMBtu/hr) | Annual Operating Hours | Description |
|------------------------|-------------|-------------------------|------------------------|-------------|
| COMPRESSOR Waukesha #1 | 1900        | 14.97                   | 8,760                  | 4SRB w NSCR |
| COMPRESSOR Waukesha #2 | 1900        | 14.97                   | 8,760                  | 4SRB w NSCR |

**Table B-8b: Waukesha Compressors - TAC Emissions**

| Pollutant                 | Cas No. | Emission Factor (lb/MMScf) | Emission Factor (lb/MMBtu) | Waukesha Compressor 1    |                          | Waukesha Compressor 2    |                          |
|---------------------------|---------|----------------------------|----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
|                           |         |                            |                            | Annual Emissions (lb/yr) | Hourly Emissions (lb/hr) | Annual Emissions (lb/yr) | Hourly Emissions (lb/hr) |
| 1,1,2,2-Tetrachloroethane | 79345   | 6.07E-03                   | 5.95E-06                   | 7.80E-01                 | 8.91E-05                 | 7.80E-01                 | 8.91E-05                 |
| 1,1,2-Trichloroethane     | 79005   | 3.67E-03                   | 3.60E-06                   | 4.72E-01                 | 5.39E-05                 | 4.72E-01                 | 5.39E-05                 |
| 1,1-Dichloroethane        | 75343   | 2.71E-03                   | 2.66E-06                   | 3.48E-01                 | 3.98E-05                 | 3.48E-01                 | 3.98E-05                 |
| 1,2 Dichloroethane        | 107062  | 2.71E-03                   | 2.66E-06                   | 3.48E-01                 | 3.98E-05                 | 3.48E-01                 | 3.98E-05                 |
| 1,3-Butadiene             | 106990  | 1.59E-01                   | 1.56E-04                   | 2.04E+01                 | 2.33E-03                 | 2.04E+01                 | 2.33E-03                 |
| Acetaldehyde              | 75070   | 6.70E-01                   | 6.57E-04                   | 8.61E+01                 | 9.83E-03                 | 8.61E+01                 | 9.83E-03                 |
| Benzene                   | 71432   | 3.79E-01                   | 3.72E-04                   | 4.87E+01                 | 5.56E-03                 | 4.87E+01                 | 5.56E-03                 |
| Carbon tetrachloride      | 56235   | 4.25E-03                   | 4.17E-06                   | 5.46E-01                 | 6.24E-05                 | 5.46E-01                 | 6.24E-05                 |
| Chlorobenzene             | 108907  | 3.10E-03                   | 3.04E-06                   | 3.99E-01                 | 4.55E-05                 | 3.99E-01                 | 4.55E-05                 |
| Chloroform                | 67663   | 3.29E-03                   | 3.23E-06                   | 4.23E-01                 | 4.83E-05                 | 4.23E-01                 | 4.83E-05                 |
| Ethyl benzene             | 100414  | 5.95E-03                   | 5.83E-06                   | 7.65E-01                 | 8.73E-05                 | 7.65E-01                 | 8.73E-05                 |
| Ethylene dibromide        | 106934  | 5.11E-03                   | 5.01E-06                   | 6.57E-01                 | 7.50E-05                 | 6.57E-01                 | 7.50E-05                 |
| Formaldehyde              | 50000   | 4.92E+00                   | 4.82E-03                   | 6.33E+02                 | 7.22E-02                 | 6.33E+02                 | 7.22E-02                 |
| Methanol                  | 67561   | 7.34E-01                   | 7.20E-04                   | 9.44E+01                 | 1.08E-02                 | 9.44E+01                 | 1.08E-02                 |
| Methylene chloride        | 75092   | 9.89E-03                   | 9.70E-06                   | 1.27E+00                 | 1.45E-04                 | 1.27E+00                 | 1.45E-04                 |
| Naphthalene               | 91203   | 2.33E-02                   | 2.28E-05                   | 3.00E+00                 | 3.42E-04                 | 3.00E+00                 | 3.42E-04                 |
| Styrene                   | 100425  | 2.86E-03                   | 2.80E-06                   | 3.68E-01                 | 4.20E-05                 | 3.68E-01                 | 4.20E-05                 |
| Toluene                   | 108883  | 1.34E-01                   | 1.31E-04                   | 1.72E+01                 | 1.97E-03                 | 1.72E+01                 | 1.97E-03                 |
| Vinyl Chloride            | 75014   | 1.72E-03                   | 1.69E-06                   | 2.21E-01                 | 2.52E-05                 | 2.21E-01                 | 2.52E-05                 |
| Xylene                    | 1330207 | 4.68E-02                   | 4.59E-05                   | 6.02E+00                 | 6.87E-04                 | 6.02E+00                 | 6.87E-04                 |
| 2-Methylnaphthalene       | 91576   | 3.20E-04                   | 3.14E-07                   | 4.12E-02                 | 4.70E-06                 | 4.12E-02                 | 4.70E-06                 |
| Acenaphthylene            | 208968  | 1.42E-04                   | 1.39E-07                   | 1.82E-02                 | 2.08E-06                 | 1.82E-02                 | 2.08E-06                 |
| Acenaphthene              | 83329   | 2.40E-05                   | 2.35E-08                   | 3.08E-03                 | 3.52E-07                 | 3.08E-03                 | 3.52E-07                 |
| Anthracene                | 120127  | 9.99E-05                   | 9.79E-08                   | 1.28E-02                 | 1.47E-06                 | 1.28E-02                 | 1.47E-06                 |
| Benz(a)anthracene         | 56553   | 2.40E-05                   | 2.35E-08                   | 3.08E-03                 | 3.52E-07                 | 3.08E-03                 | 3.52E-07                 |
| Benzo(a)pyrene            | 50328   | 6.32E-06                   | 6.20E-09                   | 8.13E-04                 | 9.28E-08                 | 8.13E-04                 | 9.28E-08                 |
| Benzo(b)fluoranthene      | 205992  | 7.66E-06                   | 7.51E-09                   | 9.85E-04                 | 1.12E-07                 | 9.85E-04                 | 1.12E-07                 |
| Benzo(e)pyrene            | 192972  | 1.13E-05                   | 1.11E-08                   | 1.46E-03                 | 1.66E-07                 | 1.46E-03                 | 1.66E-07                 |
| Benzo(g,h,i)perylene      | 191242  | 6.52E-06                   | 6.39E-09                   | 8.38E-04                 | 9.57E-08                 | 8.38E-04                 | 9.57E-08                 |
| Benzo(k)fluoranthene      | 207089  | 7.66E-06                   | 7.51E-09                   | 9.85E-04                 | 1.12E-07                 | 9.85E-04                 | 1.12E-07                 |
| Chrysene                  | 218019  | 2.59E-05                   | 2.54E-08                   | 3.33E-03                 | 3.80E-07                 | 3.33E-03                 | 3.80E-07                 |
| Dibenz(a,h)anthracene     | 53703   | 1.92E-06                   | 1.88E-09                   | 2.47E-04                 | 2.81E-08                 | 2.47E-04                 | 2.81E-08                 |
| Fluoranthene              | 206440  | 9.18E-05                   | 9.00E-08                   | 1.18E-02                 | 1.35E-06                 | 1.18E-02                 | 1.35E-06                 |
| Fluorene                  | 86737   | 1.02E-04                   | 9.98E-08                   | 1.31E-02                 | 1.49E-06                 | 1.31E-02                 | 1.49E-06                 |
| Indeno(1,2,3-c,d)pyrene   | 193395  | 3.84E-06                   | 3.76E-09                   | 4.93E-04                 | 5.63E-08                 | 4.93E-04                 | 5.63E-08                 |
| Perylene                  | 198550  | 1.53E-06                   | 1.50E-09                   | 1.97E-04                 | 2.25E-08                 | 1.97E-04                 | 2.25E-08                 |
| Phenanthrene              | 85018   | 4.79E-04                   | 4.70E-07                   | 6.16E-02                 | 7.04E-06                 | 6.16E-02                 | 7.04E-06                 |
| Pyrene                    | 129000  | 9.39E-05                   | 9.21E-08                   | 1.21E-02                 | 1.38E-06                 | 1.21E-02                 | 1.38E-06                 |

**Source of emission factors:**

AP-42 for speciated PAHs, SJVAPCD for all other TACs

**Table B-9: Proposed Standby Generator TAC Emissions**

**Table B-9a: Waukesha Standby Generator - Process Information**

| Source                       | Rating (HP) | Design Value (MMBtu/hr) | Annual Operating Hours | Description | Comments |
|------------------------------|-------------|-------------------------|------------------------|-------------|----------|
| Waukesha Emergency Generator | 840         | 7.48                    | 1,000                  | 4SRB w NSCR |          |

**Table B-9b: Waukesha Standby Generator - TAC Emissions**

| Pollutant                 | Cas No. | Emission Factor (lb/MMScf) | Emission Factor (lb/MMBtu) | Waukesha Standby ICE     |                          |
|---------------------------|---------|----------------------------|----------------------------|--------------------------|--------------------------|
|                           |         |                            |                            | Annual Emissions (lb/yr) | Hourly Emissions (lb/hr) |
| 1,1,2,2-Tetrachloroethane | 79345   | 6.07E-03                   | 5.95E-06                   | 4.45E-02                 | 4.45E-05                 |
| 1,1,2-Trichloroethane     | 79005   | 3.67E-03                   | 3.60E-06                   | 2.69E-02                 | 2.69E-05                 |
| 1,1-Dichloroethane        | 75343   | 2.71E-03                   | 2.66E-06                   | 1.99E-02                 | 1.99E-05                 |
| 1,2 Dichloroethane        | 107062  | 2.71E-03                   | 2.66E-06                   | 1.99E-02                 | 1.99E-05                 |
| 1,3-Butadiene             | 106990  | 1.59E-01                   | 1.56E-04                   | 1.17E+00                 | 1.17E-03                 |
| Acetaldehyde              | 75070   | 6.70E-01                   | 6.57E-04                   | 4.91E+00                 | 4.91E-03                 |
| Benzene                   | 71432   | 3.79E-01                   | 3.72E-04                   | 2.78E+00                 | 2.78E-03                 |
| Carbon tetrachloride      | 56235   | 4.25E-03                   | 4.17E-06                   | 3.12E-02                 | 3.12E-05                 |
| Chlorobenzene             | 108907  | 3.10E-03                   | 3.04E-06                   | 2.27E-02                 | 2.27E-05                 |
| Chloroform                | 67663   | 3.29E-03                   | 3.23E-06                   | 2.41E-02                 | 2.41E-05                 |
| Ethyl benzene             | 100414  | 5.95E-03                   | 5.83E-06                   | 4.36E-02                 | 4.36E-05                 |
| Ethylene dibromide        | 106934  | 5.11E-03                   | 5.01E-06                   | 3.75E-02                 | 3.75E-05                 |
| Formaldehyde              | 50000   | 4.92E+00                   | 4.82E-03                   | 3.61E+01                 | 3.61E-02                 |
| Methanol                  | 67561   | 7.34E-01                   | 7.20E-04                   | 5.38E+00                 | 5.38E-03                 |
| Methylene chloride        | 75092   | 9.89E-03                   | 9.70E-06                   | 7.25E-02                 | 7.25E-05                 |
| Naphthalene               | 91203   | 2.33E-02                   | 2.28E-05                   | 1.71E-01                 | 1.71E-04                 |
| Styrene                   | 100425  | 2.86E-03                   | 2.80E-06                   | 2.10E-02                 | 2.10E-05                 |
| Toluene                   | 108883  | 1.34E-01                   | 1.31E-04                   | 9.83E-01                 | 9.83E-04                 |
| Vinyl Chloride            | 75014   | 1.72E-03                   | 1.69E-06                   | 1.26E-02                 | 1.26E-05                 |
| Xylene                    | 1330207 | 4.68E-02                   | 4.59E-05                   | 3.43E-01                 | 3.43E-04                 |
| 2-Methylnaphthalene       | 91576   | 3.20E-04                   | 3.14E-07                   | 2.35E-03                 | 2.35E-06                 |
| Acenaphthylene            | 208968  | 1.42E-04                   | 1.39E-07                   | 1.04E-03                 | 1.04E-06                 |
| Acenaphthene              | 83329   | 2.40E-05                   | 2.35E-08                   | 1.76E-04                 | 1.76E-07                 |
| Anthracene                | 120127  | 9.99E-05                   | 9.79E-08                   | 7.32E-04                 | 7.32E-07                 |
| Benz(a)anthracene         | 56553   | 2.40E-05                   | 2.35E-08                   | 1.76E-04                 | 1.76E-07                 |
| Benzo(a)pyrene            | 50328   | 6.32E-06                   | 6.20E-09                   | 4.64E-05                 | 4.64E-08                 |
| Benzo(b)fluoranthene      | 205992  | 7.66E-06                   | 7.51E-09                   | 5.62E-05                 | 5.62E-08                 |
| Benzo(e)pyrene            | 192972  | 1.13E-05                   | 1.11E-08                   | 8.30E-05                 | 8.30E-08                 |
| Benzo(g,h,i)perylene      | 191242  | 6.52E-06                   | 6.39E-09                   | 4.78E-05                 | 4.78E-08                 |
| Benzo(k)fluoranthene      | 207089  | 7.66E-06                   | 7.51E-09                   | 5.62E-05                 | 5.62E-08                 |
| Chrysene                  | 218019  | 2.59E-05                   | 2.54E-08                   | 1.90E-04                 | 1.90E-07                 |
| Dibenz(a,h)anthracene     | 53703   | 1.92E-06                   | 1.88E-09                   | 1.41E-05                 | 1.41E-08                 |
| Fluoranthene              | 206440  | 9.18E-05                   | 9.00E-08                   | 6.73E-04                 | 6.73E-07                 |
| Fluorene                  | 86737   | 1.02E-04                   | 9.98E-08                   | 7.47E-04                 | 7.47E-07                 |
| Indeno(1,2,3-c,d)pyrene   | 193395  | 3.84E-06                   | 3.76E-09                   | 2.81E-05                 | 2.81E-08                 |
| Perylene                  | 198550  | 1.53E-06                   | 1.50E-09                   | 1.12E-05                 | 1.12E-08                 |
| Phenanthrene              | 85018   | 4.79E-04                   | 4.70E-07                   | 3.52E-03                 | 3.52E-06                 |
| Pyrene                    | 129000  | 9.39E-05                   | 9.21E-08                   | 6.89E-04                 | 6.89E-07                 |

**Source of emission factors:**

AP-42 for speciated PAHs, SJVAPCD for all other TACs

**Table B-10: Total VCS Facility TAC Emissions**

| Pollutant                 | Cas No. | Total Project            |                          |
|---------------------------|---------|--------------------------|--------------------------|
|                           |         | Annual Emissions (lb/yr) | Hourly Emissions (lb/hr) |
| 1,1,2,2-Tetrachloroethane | 79345   | 3.17E+00                 | 4.01E-04                 |
| 1,1,2-Trichloroethane     | 79005   | 1.91E+00                 | 2.42E-04                 |
| 1,1-Dichloroethane        | 75343   | 1.41E+00                 | 1.79E-04                 |
| 1,2 Dichloroethane        | 107062  | 1.41E+00                 | 1.79E-04                 |
| 1,3-Butadiene             | 106990  | 8.29E+01                 | 1.05E-02                 |
| Acetaldehyde              | 75070   | 3.49E+02                 | 4.42E-02                 |
| Benzene                   | 71432   | 1.98E+02                 | 2.50E-02                 |
| Carbon tetrachloride      | 56235   | 2.22E+00                 | 2.81E-04                 |
| Chlorobenzene             | 108907  | 1.62E+00                 | 2.05E-04                 |
| Chloroform                | 67663   | 1.72E+00                 | 2.17E-04                 |
| Ethyl benzene             | 100414  | 3.10E+00                 | 3.93E-04                 |
| Ethylene dibromide        | 106934  | 2.67E+00                 | 3.37E-04                 |
| Formaldehyde              | 50000   | 2.57E+03                 | 3.25E-01                 |
| Methanol                  | 67561   | 3.83E+02                 | 4.85E-02                 |
| Methylene chloride        | 75092   | 5.16E+00                 | 6.53E-04                 |
| Naphthalene               | 91203   | 1.22E+01                 | 1.54E-03                 |
| Styrene                   | 100425  | 1.49E+00                 | 1.89E-04                 |
| Toluene                   | 108883  | 6.99E+01                 | 8.85E-03                 |
| Vinyl Chloride            | 75014   | 8.97E-01                 | 1.14E-04                 |
| Xylene                    | 1330207 | 2.44E+01                 | 3.09E-03                 |
| 2-Methylnaphthalene       | 91576   | 1.67E-01                 | 2.12E-05                 |
| Acenaphthylene            | 208968  | 7.40E-02                 | 9.36E-06                 |
| Acenaphthene              | 83329   | 1.25E-02                 | 1.58E-06                 |
| Anthracene                | 120127  | 5.21E-02                 | 6.59E-06                 |
| Benz(a)anthracene         | 56553   | 1.25E-02                 | 1.58E-06                 |
| Benzo(a)pyrene            | 50328   | 3.30E-03                 | 4.18E-07                 |
| Benzo(b)fluoranthene      | 205992  | 4.00E-03                 | 5.06E-07                 |
| Benzo(e)pyrene            | 192972  | 5.91E-03                 | 7.48E-07                 |
| Benzo(g,h,i)perylene      | 191242  | 3.40E-03                 | 4.30E-07                 |
| Benzo(k)fluoranthene      | 207089  | 4.00E-03                 | 5.06E-07                 |
| Chrysene                  | 218019  | 1.35E-02                 | 1.71E-06                 |
| Dibenz(a,h)anthracene     | 53703   | 1.00E-03                 | 1.27E-07                 |
| Fluoranthene              | 206440  | 4.79E-02                 | 6.06E-06                 |
| Fluorene                  | 86737   | 5.31E-02                 | 6.72E-06                 |
| Indeno(1,2,3-c,d)pyrene   | 193395  | 2.00E-03                 | 2.53E-07                 |
| Perylene                  | 198550  | 7.98E-04                 | 1.01E-07                 |
| Phenanthrene              | 85018   | 2.50E-01                 | 3.17E-05                 |
| Pyrene                    | 129000  | 4.90E-02                 | 6.20E-06                 |

Notes:

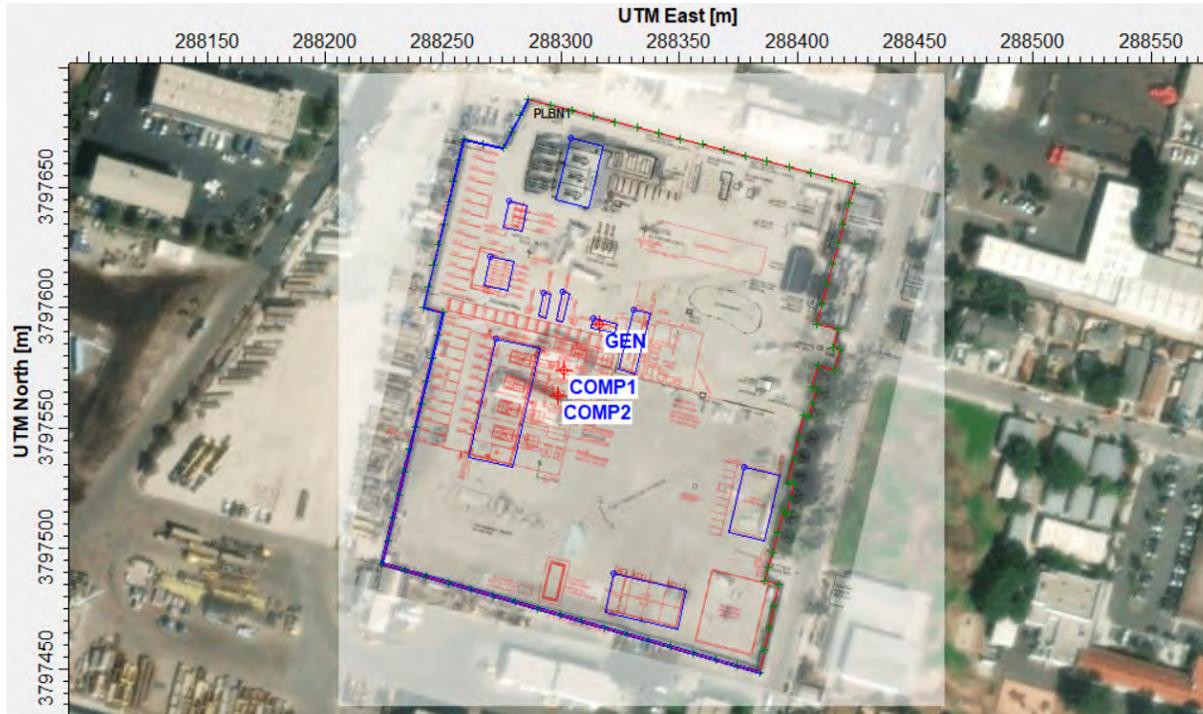
Project emissions based on PTE for the 2 new compressor engines and standby generator

**ATTACHMENT C – OPERATIONS PM10 MODELING INPUT PARAMETERS  
AND RESULTS**

**Ventura Compressor Station Modernization Project**  
**Table C-1A Source Parameters and PM10 Emission Rates**

| Stack ID | Description                              | Stack Height   | Stack Diameter | Stack Velocity | Stack Temp     | Stack Flow | Stack Height   | Stack Diameter | Stack Velocity | Stack Temp     | UTM x      | UTM y        | PM Emission Rate | Stack configuration<br>(fixed cap/flapper cap,<br>vertical/horizontal stack) |
|----------|--|----------------|----------------|----------------|----------------|------------|----------------|----------------|----------------|----------------|------------|--------------|------------------|--|
|          |  | H <sub>s</sub> | D <sub>s</sub> | V <sub>s</sub> | T <sub>s</sub> |            | H <sub>s</sub> | D <sub>s</sub> | V <sub>s</sub> | T <sub>s</sub> |            |              |                  |  |
|          |  | (ft)           | (ft)           | (ft/s)         | (°F)           |            | (m)            | (m)            | (m/s)          | (°K)           |            |              |                  |  |
| COMP1    | Natural Gas-Fired RICE Driven Compressor | 64.0           | 1.15           | 134.22         | 1098.0         | 8364.7     | 19.51          | 0.35           | 40.91          | 865.37         | 288,301.20 | 3,797,574.08 | 0.14             | vertical, no cap   |
| COMP2    | Natural Gas-Fired RICE Driven Compressor | 64.0           | 1.15           | 134.22         | 1098.0         | 8364.7     | 19.51          | 0.35           | 40.91          | 865.37         | 288,298.44 | 3,797,563.41 | 0.14             | vertical, no cap   |
| EM ICE   | Natural Gas-Fired Back-up Generator      | 21.5           | 1.15           | 67.94          | 1194.0         | 4234.0     | 6.55           | 0.35           | 20.71          | 918.7          | 288,316.20 | 3,797,593.27 | 0.07             | vertical, no cap   |

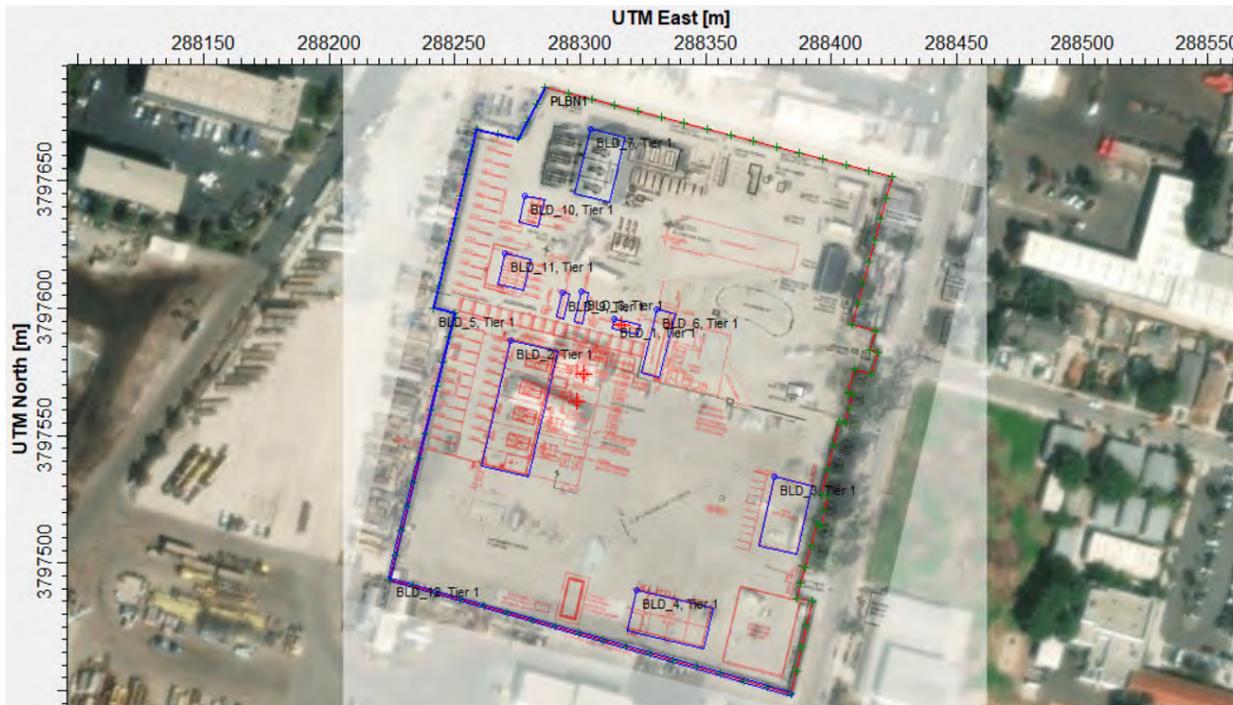
Source Locations



**Ventura Compressor Station Modernization Project**  
**Table C-1A Source Parameters and PM10 Emission Rates**

**Table C-1B Building Parameters**  
Buildings

| Building                            | Height (ft) | X-Length (ft) | Y-Length (ft) |
|-------------------------------------|-------------|---------------|---------------|
| New Compressor Building             | 52.5        | 63            | 166           |
| New Warehouse Building              | 27.5        | 103           | 53            |
| New Office Building                 | 16.5        | 51            | 91            |
| New Power Distribution Center (PDC) | 20          | 24            | 84            |
| New Generator Enclosure             | 18          | 34            | 13            |
| Gas Cooler                          | 12          | 34            | 41            |
| Suction Gas Filter / Separator      | 16          | 26            | 36            |
| Instrument Air Compressor Skid      | 10          | 9.5           | 33            |
| Starting Air Compressor Skid        | 10          | 9.5           | 40            |
| Old Compressor Building             | 32          | 47            | 86            |



**Ventura Compressor Station Modernization Project**  
**Table C-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter  | Value  |                                     |                                     |                                     | Comments  |
|--|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <b>Model Version</b>                               |  |                                     |                                     |                                     |   |
| AERMOD Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMET Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMAP Version                                     | 18081  |                                     |                                     |                                     | --  |
| Lakes Environmental Software; AERMOD View™ Version | 11.2.0   |                                     |                                     |                                     | --  |
| <b>Control Pathway</b>                             |  |                                     |                                     |                                     |   |
| Regulatory Options                                 | Default  | <input checked="" type="checkbox"/> | Non-Default                         | <input type="checkbox"/>            | --  |
| Output Type  | Concentration  | <input checked="" type="checkbox"/> | Dry Deposition                      | <input type="checkbox"/>            | --  |
|  | Total Deposition   | <input type="checkbox"/>            | Wet Deposition                      | <input type="checkbox"/>            |   |
| Depletion Options                                  | Dry Depletion  | <input type="checkbox"/>            | Wet Depletion                       | <input type="checkbox"/>            | --  |
|  | Disable Dry Depletion                                    | <input type="checkbox"/>            | Disable Wet Depletion               | <input type="checkbox"/>            |   |
| Pollutant  | Other  |                                     |                                     |                                     | --  |
| Averaging Time Options                             | 1-Hour; Period   |                                     |                                     |                                     | --  |
| Dispersion Coefficient                             | Rural  | <input checked="" type="checkbox"/> | Urban                               | <input type="checkbox"/>            | Rural is the default assumption.                          |
| Terrain Height Options                             | Elevated   |                                     | <input checked="" type="checkbox"/> |                                     | --  |
|  | <i>Non-Default Regulatory Options</i>                    |                                     |                                     |                                     |   |
|  | Flat   | <input type="checkbox"/>            | Flat & Elevated                     | <input type="checkbox"/>            |   |
| Receptor Elevations / Hill Heights                 | Run AERMOD using the AERMAP Receptor Output file (*.ROU) |                                     |                                     |                                     | --  |
| <b>Source Pathway</b>                              |  |                                     |                                     |                                     |   |
| Building Downwash                                  | Include  | <input checked="" type="checkbox"/> | Exclude                             | <input type="checkbox"/>            | --  |
| Background Concentrations                          | Include  | <input type="checkbox"/>            | Exclude                             | <input checked="" type="checkbox"/> | This project does not consider background concentrations. |
| Source Groups                                      | Each exhaust stack is assigned to its own source group.  |                                     |                                     |                                     | --  |
| Urban Groups                                       | N/A  |                                     |                                     |                                     | --  |
| Variable Emissions                                 | N/A  |                                     |                                     |                                     | --  |

**Ventura Compressor Station Modernization Project**  
**Table C-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter                    | Value  |                          |                          |                                     | Comments   |
|------------------------------|--|--------------------------|--------------------------|-------------------------------------|--|
| <b>Receptor Pathway</b>      |  |                          |                          |                                     |  |
| Flagpole Receptors           | Include  | <input type="checkbox"/> | Exclude                  | <input checked="" type="checkbox"/> | All receptors set to ground-level.                                       |
| Multi-Tier Receptor Grid     | Grid Origin: Centroid of Sources Polygon   |                          |                          |                                     | --   |
|                              | Tier   |                          | Distance from Center (m) | Tier Spacing (m)                    |  |
|                              | 1  |                          | 1000                     | 50                                  |  |
|                              | 2  |                          | 2000                     | 100                                 |  |
| Discrete Cartesian Receptors | Off-Site Worker: Receptor Nos. 84-113<br>Residential: Receptor Nos. 37-83<br>Sensitive: Receptor Nos. 1-36 |                          |                          |                                     | --   |
| Plant Boundary               | Receptor Spacing: 10 m   |                          |                          |                                     | Conservative receptor spacing.<br>Onsite gridded receptors are disabled. |
| <b>Meteorology Pathway</b>   |  |                          |                          |                                     |  |
| Meteorological Data          | Station: Onsite MET Station<br>Years: 2002-2003<br>Base Elevation of Surface Station: 18 m                 |                          |                          |                                     | Onsite Meteorological data.  |
| <b>Terrain Pathway</b>       |  |                          |                          |                                     |  |
| Data File                    | USGS_NED_1_n35w120.tif   |                          |                          |                                     | NED GEOTIFF Digital Terrain Files. Resolution: 1-arcsecond (30 meters).  |
| AERMAP Domain Options        | Not Specified  | <input type="checkbox"/> | User-Defined Domain      | <input checked="" type="checkbox"/> | --   |

# Results Summary

C:\Lakes\AERMOD View\VCS PM10  
PM10 Run

## PM10 - Concentration - Source Group: ALL

| Averaging Period | Rank | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 24-HR            | 1ST  | 3.92291 | ug/m^3 | 288233.50 | 3797531.65 | 20.32     | 0.00      | 353.21    | 11/28/2002, 24        |
| ANNUAL           |      | 0.37244 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |
| ANNUAL Y1        |      | 0.37244 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |

## PM10 - Concentration - Source Group: COMP1

| Averaging Period | Rank | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 24-HR            | 1ST  | 1.15675 | ug/m^3 | 288233.50 | 3797531.65 | 20.32     | 0.00      | 353.21    | 11/28/2002, 24        |
| ANNUAL           |      | 0.11837 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |
| ANNUAL Y1        |      | 0.11837 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |

## PM10 - Concentration - Source Group: COMP2

| Averaging Period | Rank | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 24-HR            | 1ST  | 1.62806 | ug/m^3 | 288233.50 | 3797531.65 | 20.32     | 0.00      | 353.21    | 11/28/2002, 24        |
| ANNUAL           |      | 0.13987 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |
| ANNUAL Y1        |      | 0.13987 | ug/m^3 | 288252.35 | 3797485.74 | 19.41     | 0.00      | 353.21    |                       |

# Results Summary

C:\Lakes\AERMOD View\VCS PM10  
PM10 Run

## PM10 - Concentration - Source Group: GEN

| Averaging Period | Rank | Peak    | Units  | X (m)     | Y (m)      | ZELEV (m) | ZFLAG (m) | ZHILL (m) | Peak Date, Start Hour |
|------------------|------|---------|--------|-----------|------------|-----------|-----------|-----------|-----------------------|
| 24-HR            | 1ST  | 1.15864 | ug/m^3 | 288235.84 | 3797541.14 | 20.49     | 0.00      | 353.21    | 11/28/2002, 24        |
| ANNUAL           |      | 0.14169 | ug/m^3 | 288341.35 | 3797672.71 | 22.11     | 0.00      | 353.21    |                       |
| ANNUAL Y1        |      | 0.14169 | ug/m^3 | 288341.35 | 3797672.71 | 22.11     | 0.00      | 353.21    |                       |

**ATTACHMENT D – CONSTRUCTION HRA INPUT PARAMETERS AND  
RESULTS**

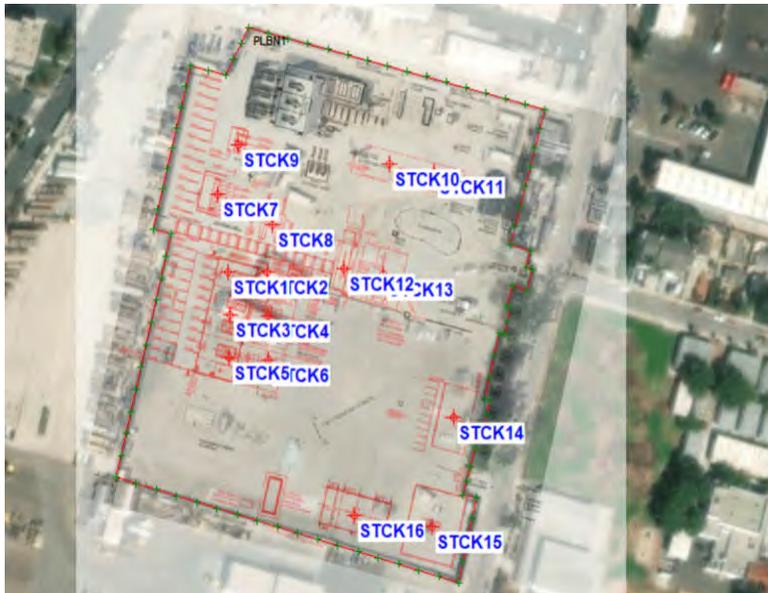
**Ventura Compressor Station Modernization Project**  
**Table D-1 Source & Building Parameters**

| Stack ID | Source General Location Description | Stack Height | Stack Diameter | Stack Velocity | Stack Temp | UTM x      | UTM y        | Stack configuration<br>(fixed cap/flapper cap, vertical/horizontal stack) |
|----------|-------------------------------------|--------------|----------------|----------------|------------|------------|--------------|---|
|          |                                     | (ft)         | (ft)           | (m/s)          | (F)        | (m)        | (m)          |   |
| STCK1    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,281.18 | 3,797,636.55 | vertical, no cap  |
| STCK2    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,351.54 | 3,797,628.21 | vertical, no cap  |
| STCK3    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,372.60 | 3,797,624.78 | vertical, no cap  |
| STCK4    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,271.41 | 3,797,615.03 | vertical, no cap  |
| STCK5    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,297.10 | 3,797,602.24 | vertical, no cap  |
| STCK6    | New Compressor Building             | 7.4          | 0.34           | 43.16          | 899        | 288,330.27 | 3,797,583.27 | vertical, no cap  |
| STCK7    | Gas Cooler                          | 7.4          | 0.34           | 43.16          | 899        | 288,348.89 | 3,797,580.76 | vertical, no cap  |
| STCK8    | Air Compressor Skid                 | 7.4          | 0.34           | 43.16          | 899        | 288,381.52 | 3,797,519.75 | vertical, no cap  |
| STCK9    | Filter/Separator                    | 7.4          | 0.34           | 43.16          | 899        | 288,371.65 | 3,797,472.79 | vertical, no cap  |
| STCK10   | Deodorizing Unit                    | 7.4          | 0.34           | 43.16          | 899        | 288,335.35 | 3,797,477.33 | vertical, no cap  |
| STCK11   | Deodorizing Unit                    | 7.4          | 0.34           | 43.16          | 899        | 288,276.39 | 3,797,581.72 | vertical, no cap  |
| STCK12   | New Generator Enclosure             | 7.4          | 0.34           | 43.16          | 899        | 288,294.45 | 3,797,581.97 | vertical, no cap  |
| STCK13   | Gravel Area                         | 7.4          | 0.34           | 43.16          | 899        | 288,277.12 | 3,797,563.67 | vertical, no cap  |
| STCK14   | New Office Building                 | 7.4          | 0.34           | 43.16          | 899        | 288,295.18 | 3,797,563.06 | vertical, no cap  |
| STCK15   | Detention Structure                 | 7.4          | 0.34           | 43.16          | 899        | 288,276.76 | 3,797,545.25 | vertical, no cap  |
| STCK16   | New Warehouse Building              | 7.4          | 0.34           | 43.16          | 899        | 288,294.93 | 3,797,544.40 | vertical, no cap  |

Notes:

1. SBCAPCD Default Stack Parameters for ICEs for engine size 100-250 BHP.
2. Source locations are shown in the general vicinity of the proposed building to be constructed.

Source Locations



**Ventura Compressor Station Modernization Project**  
**Table D-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter  | Value  |                                     |                                     |                                     | Comments  |
|--|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <b>Model Version</b>                               |  |                                     |                                     |                                     |   |
| AERMOD Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMET Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMAP Version                                     | 18081  |                                     |                                     |                                     | --  |
| Lakes Environmental Software; AERMOD View™ Version | 11.2.0   |                                     |                                     |                                     | --  |
| <b>Control Pathway</b>                             |  |                                     |                                     |                                     |   |
| Regulatory Options                                 | Default  | <input checked="" type="checkbox"/> | Non-Default                         | <input type="checkbox"/>            | --  |
| Output Type  | Concentration  | <input checked="" type="checkbox"/> | Dry Deposition                      | <input type="checkbox"/>            | --  |
|  | Total Deposition   | <input type="checkbox"/>            | Wet Deposition                      | <input type="checkbox"/>            |   |
| Depletion Options                                  | Dry Depletion  | <input type="checkbox"/>            | Wet Depletion                       | <input type="checkbox"/>            | --  |
|  | Disable Dry Depletion                                    | <input type="checkbox"/>            | Disable Wet Depletion               | <input type="checkbox"/>            |   |
| Pollutant  | Other  |                                     |                                     |                                     | --  |
| Averaging Time Options                             | 1-Hour; Period   |                                     |                                     |                                     | --  |
| Dispersion Coefficient                             | Rural  | <input checked="" type="checkbox"/> | Urban                               | <input type="checkbox"/>            | Rural is the default assumption.                          |
| Terrain Height Options                             | Elevated   |                                     | <input checked="" type="checkbox"/> |                                     | --  |
|  | <i>Non-Default Regulatory Options</i>                    |                                     |                                     |                                     |   |
|  | Flat   | <input type="checkbox"/>            | Flat & Elevated                     | <input type="checkbox"/>            |   |
| Receptor Elevations / Hill Heights                 | Run AERMOD using the AERMAP Receptor Output file (*.ROU) |                                     |                                     |                                     | --  |
| <b>Source Pathway</b>                              |  |                                     |                                     |                                     |   |
| Building Downwash                                  | Include  | <input checked="" type="checkbox"/> | Exclude                             | <input type="checkbox"/>            | --  |
| Background Concentrations                          | Include  | <input type="checkbox"/>            | Exclude                             | <input checked="" type="checkbox"/> | This project does not consider background concentrations. |
| Source Groups                                      | Each exhaust stack is assigned to its own source group.  |                                     |                                     |                                     | --  |
| Urban Groups                                       | N/A  |                                     |                                     |                                     | --  |
| Variable Emissions                                 | N/A  |                                     |                                     |                                     | --  |

**Ventura Compressor Station Modernization Project**  
**Table D-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter                    | Value  |                          |                          |                                     | Comments   |
|------------------------------|--|--------------------------|--------------------------|-------------------------------------|--|
| <b>Receptor Pathway</b>      |  |                          |                          |                                     |  |
| Flagpole Receptors           | Include  | <input type="checkbox"/> | Exclude                  | <input checked="" type="checkbox"/> | All receptors set to ground-level.                                       |
| Multi-Tier Receptor Grid     | Grid Origin: Centroid of Sources Polygon   |                          |                          |                                     | --   |
|                              | Tier   |                          | Distance from Center (m) | Tier Spacing (m)                    |  |
|                              | 1  |                          | 1000                     | 50                                  |  |
|                              | 2  |                          | 2000                     | 100                                 |  |
| Discrete Cartesian Receptors | Off-Site Worker: Receptor Nos. 84-113<br>Residential: Receptor Nos. 37-83<br>Sensitive: Receptor Nos. 1-36 |                          |                          |                                     | --   |
| Plant Boundary               | Receptor Spacing: 10 m   |                          |                          |                                     | Conservative receptor spacing.<br>Onsite gridded receptors are disabled. |
| <b>Meteorology Pathway</b>   |  |                          |                          |                                     |  |
| Meteorological Data          | Station: Onsite MET Station<br>Years: 2002-2003<br>Base Elevation of Surface Station: 18 m                 |                          |                          |                                     | Onsite Meteorological data.  |
| <b>Terrain Pathway</b>       |  |                          |                          |                                     |  |
| Data File                    | USGS_NED_1_n35w120.tif   |                          |                          |                                     | NED GEOTIFF Digital Terrain Files. Resolution: 1-arcsecond (30 meters).  |
| AERMAP Domain Options        | Not Specified  | <input type="checkbox"/> | User-Defined Domain      | <input checked="" type="checkbox"/> | --   |

**Ventura Compressor Station Modernization Project**  
**Table D-3 HARP2 Model Options/Assumptions**

| Parameter   | Value   |                                     |      |                                     | Comments   |
|---|---|-------------------------------------|------|-------------------------------------|--|
| <b>Model Version</b>                                      |   |                                     |      |                                     |  |
| HARP Version  | 22118   |                                     |      |                                     | --   |
| HARP Health Table Version                                 | 22343   |                                     |      |                                     | --   |
| <b>Multi-Pathway</b>                                      |   |                                     |      |                                     |  |
| Inhalation  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | --   |
| Soil  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | --   |
| Dermal  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | "Warm" climate.                                      |
| Mother's Milk   | Res   | <input checked="" type="checkbox"/> | Work | <input type="checkbox"/>            | --   |
| Drinking Water  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Fish  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Homegrown Produce   | Res   | <input checked="" type="checkbox"/> | Work | <input type="checkbox"/>            | Default for "Households that Garden".                |
| Beef/Dairy  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Pigs, Chickens, and/or Eggs                               | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Deposition Velocity                                       | 0.02 m/s  |                                     |      |                                     | Particulate matter from all sources is < 2.5 µg/m3   |
| <b>Residential Cancer Risk Assumptions</b>                |   |                                     |      |                                     |  |
| Exposure Duration   | 30 years  |                                     |      |                                     | --   |
| Fraction of Time at Home                                  | 3 <sup>rd</sup> Trimester to 16 years: Off<br>16 years to 30 years: On                    |                                     |      |                                     | There is a school within the cancer risk ZOI.        |
| Inhalation Rate Basis                                     | RMP   |                                     |      |                                     | --   |
| Analysis Option   | RMP Using the Derived Method  |                                     |      |                                     | --   |
| <b>Worker Cancer Risk Assumptions</b>                     |   |                                     |      |                                     |  |
| Exposure Duration   | 25 years  |                                     |      |                                     | --   |
| Analysis Option   | OEHHA Derived Method  |                                     |      |                                     | --   |
| Inhalation Rate Basis                                     | 8-hr Breathing Rates, Moderate Intensity  |                                     |      |                                     | --   |
| Worker Adjustment Factor                                  | 4.2   |                                     |      |                                     | Worker Adjustment Factor = (24 / 8) x (7 / 5) = 4.2. |
| <b>Residential and Worker Non-Cancer Risk Assumptions</b> |   |                                     |      |                                     |  |
| Analysis Option   | OEHHA Derived Method  |                                     |      |                                     | --   |
| Inhalation Rate Basis                                     | Residential: Long-Term 24-hr<br>Off-Site Worker: 8-hr Breathing Rates, Moderate Intensity |                                     |      |                                     | --   |

**Cancer Risk by Source for All Pollutants Combined at MEIR, MEIW, and Non-Residential Sensitive Receptor - VCS Construction HRA**

| Sources | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------|--|------------------|---------------------------|------------------|--|------------------|
|         | receptor #                                   | 49               | receptor #                | 24               | receptor #                                 | 107              |
|         | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)           | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|         | 288,236.76                                   | 3,797,278.72     | 288,435.04                | 3,797,572.12     | 288,279.18                                 | 3,797,457.30     |
|         | 3-Year Cancer Risk                           | Contribution (%) | 3-Year Cancer Risk        | Contribution (%) | 3-Year Cancer Risk                         | Contribution (%) |
| ALL     | 2.30E-06                                     | 100%             | 1.49E-06                  | 100%             | 3.14E-07                                   | 100%             |

**Maximum Cancer Risk by Pollutant at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Construction HRA**

| Pollutant CAS | Pollutant   | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------------|-------------|--|------------------|---------------------------|------------------|--|------------------|
|               |             | receptor #                                   | 49               | receptor #                | 24               | receptor #                                 | 107              |
|               |             | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)           | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|               |             | 288,236.76                                   | 3,797,278.72     | 288,435.04                | 3,797,572.12     | 288,279.18                                 | 3,797,457.30     |
|               |             | 3-Year Cancer Risk                           | Contribution (%) | 3-Year Cancer Risk        | Contribution (%) | 3-Year Cancer Risk                         | Contribution (%) |
| -             | ALL         | 2.30E-06                                     | 100%             | 1.49E-06                  | 100%             | 3.14E-07                                   | 100.00%          |
| 9901          | DieselExhPM | 2.30E-06                                     | 100.00%          | 1.49E-06                  | 100.00%          | 3.14E-07                                   | 100.00%          |



**Chronic Hazard Index by Source for All Pollutants Combined at MEIR, MEIW, and Non-Residential Sensitive Receptor - VCS Construction HRA**

| Sources | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------|--|------------------|---------------------------|------------------|--|------------------|
|         | receptor #                                   | 49               | receptor #                | 24               | receptor #                                 | 107              |
|         | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)           | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|         | 288,236.76                                   | 3,797,278.72     | 288,435.04                | 3,797,572.12     | 288,279.18                                 | 3,797,457.30     |
|         | Chronic Hazard Index                         | Contribution (%) | Chronic Hazard Index      | Contribution (%) | Chronic Hazard Index                       | Contribution (%) |
| ALL     | 1.24E-03                                     | 100%             | 8.05E-04                  | 100%             | 1.93E-03                                   | 100%             |

Note:

Individual sources are not additive because risk is based on specific target organs, which may be different per source

**Maximum Chronic Hazard Index by Pollutant at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Construction HRA**

| Pollutant CAS | Pollutant   | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------------|-------------|--|------------------|---------------------------|------------------|--|------------------|
|               |             | receptor #                                   | 49               | receptor #                | 24               | receptor #                                 | 107              |
|               |             | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)           | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|               |             | Chronic Hazard Index                         | Contribution (%) | Chronic Hazard Index      | Contribution (%) | Chronic Hazard Index                       | Contribution (%) |
| -             | ALL         | 1.24E-03                                     | 100%             | 8.05E-04                  | 100%             | 1.93E-03                                   | 100%             |
| 9901          | DieselExhPM | 1.24E-03                                     | 100.00%          | 8.05E-04                  | 100.00%          | 1.93E-03                                   | 100.00%          |

## Note:

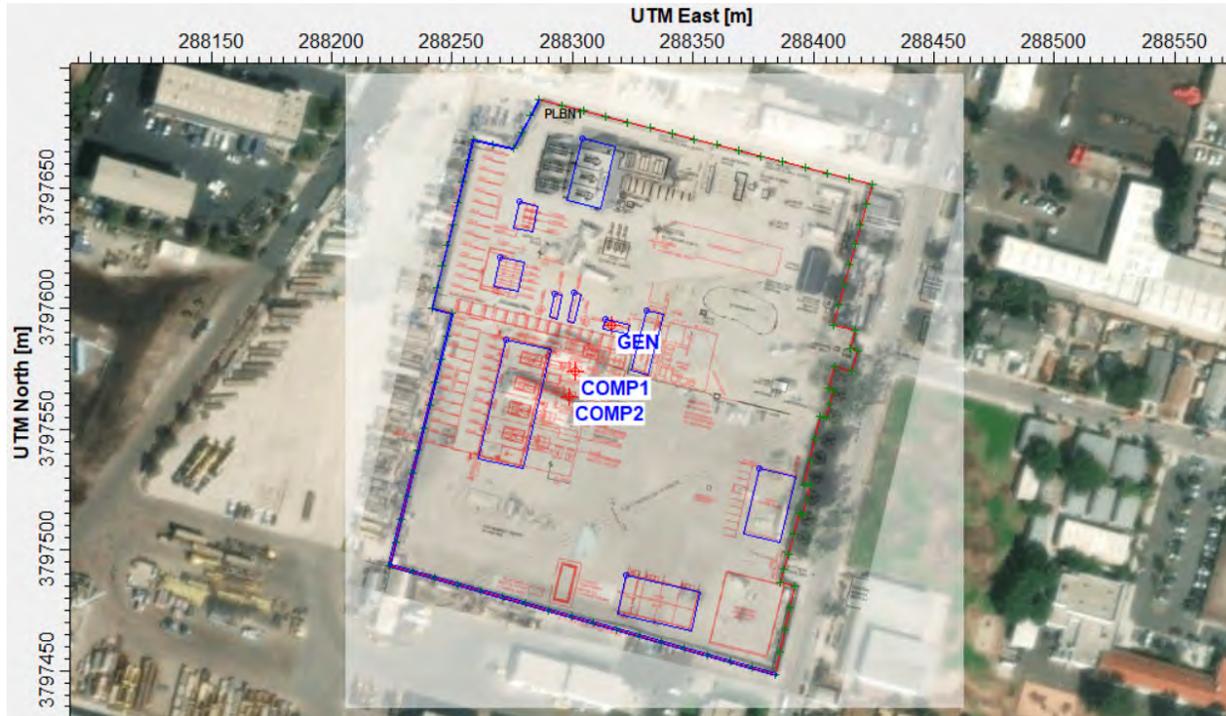
Individual pollutants are not additive because risk is based on specific target organs, which may be different per pollutant.

## **ATTACHMENT E – OPERATIONS HRA INPUT PARAMETERS AND RESULTS**

**Ventura Compressor Station Modernization Project**  
**Table E-1A Source Parameters**

| Stack ID | Description                              | Stack Height   | Stack Diameter | Stack Velocity | Stack Temp     | Stack Flow | Stack Height   | Stack Diameter | Stack Velocity | Stack Temp     | UTM x      | UTM y        | Stack configuration<br>(fixed cap/flapper cap,<br>vertical/horizontal stack) |
|----------|--|----------------|----------------|----------------|----------------|------------|----------------|----------------|----------------|----------------|------------|--------------|--|
|          |  | H <sub>s</sub> | D <sub>s</sub> | V <sub>s</sub> | T <sub>s</sub> |            | H <sub>s</sub> | D <sub>s</sub> | V <sub>s</sub> | T <sub>s</sub> |            |              |  |
|          |  | (ft)           | (ft)           | (ft/s)         | (°F)           |            | (acfm)         | (m)            | (m)            | (m/s)          |            |              |  |
| COMP1    | Natural Gas-Fired RICE Driven Compressor | 64.0           | 1.15           | 134.22         | 1098.0         | 8364.7     | 19.51          | 0.35           | 40.91          | 865.37         | 288,301.20 | 3,797,574.08 | vertical, no cap   |
| COMP2    | Natural Gas-Fired RICE Driven Compressor | 64.0           | 1.15           | 134.22         | 1098.0         | 8364.7     | 19.51          | 0.35           | 40.91          | 865.37         | 288,298.44 | 3,797,563.41 | vertical, no cap   |
| EM ICE   | Natural Gas-Fired Standby ICE            | 21.5           | 1.15           | 67.94          | 1194.0         | 4234.0     | 6.55           | 0.35           | 20.71          | 918.7          | 288,316.20 | 3,797,593.27 | vertical, no cap   |

Source Locations

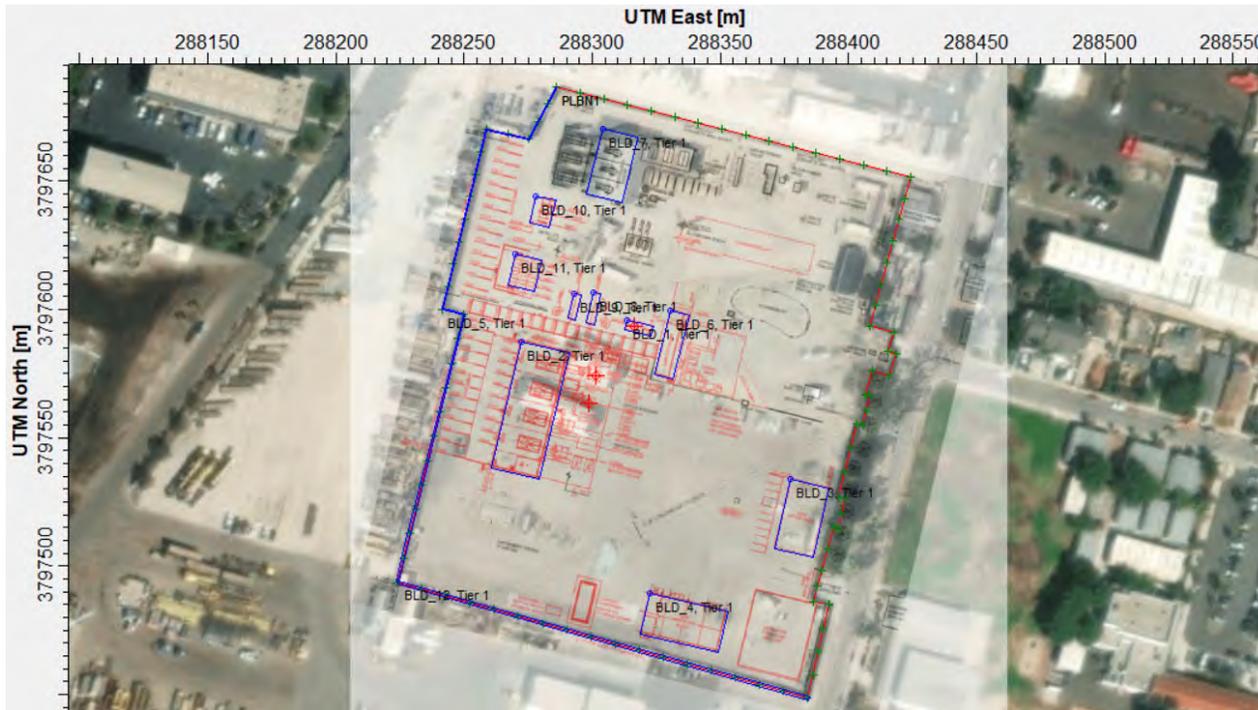


**Ventura Compressor Station Modernization Project**  
**Table E-1A Source Parameters**

**Table E-1B Building Parameters**

Buildings

| Building                            | Height (ft) | X-Length (ft) | Y-Length (ft) |
|-------------------------------------|-------------|---------------|---------------|
| New Compressor Building             | 52.5        | 63            | 166           |
| New Warehouse Building              | 27.5        | 103           | 53            |
| New Office Building                 | 16.5        | 51            | 91            |
| New Power Distribution Center (PDC) | 20          | 24            | 84            |
| New Generator Enclosure             | 18          | 34            | 13            |
| Gas Cooler                          | 12          | 34            | 41            |
| Suction Gas Filter / Separator      | 16          | 26            | 36            |
| Instrument Air Compressor Skid      | 10          | 9.5           | 33            |
| Starting Air Compressor Skid        | 10          | 9.5           | 40            |
| Old Compressor Building             | 32          | 47            | 86            |



**Ventura Compressor Station Modernization Project**  
**Table E-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter  | Value  |                                     |                                     |                                     | Comments  |
|--|--|-------------------------------------|-------------------------------------|-------------------------------------|---|
| <b>Model Version</b>                               |  |                                     |                                     |                                     |   |
| AERMOD Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMET Version                                     | 22112  |                                     |                                     |                                     | --  |
| AERMAP Version                                     | 18081  |                                     |                                     |                                     | --  |
| Lakes Environmental Software; AERMOD View™ Version | 11.2.0   |                                     |                                     |                                     | --  |
| <b>Control Pathway</b>                             |  |                                     |                                     |                                     |   |
| Regulatory Options                                 | Default  | <input checked="" type="checkbox"/> | Non-Default                         | <input type="checkbox"/>            | --  |
| Output Type  | Concentration  | <input checked="" type="checkbox"/> | Dry Deposition                      | <input type="checkbox"/>            | --  |
|  | Total Deposition   | <input type="checkbox"/>            | Wet Deposition                      | <input type="checkbox"/>            |   |
| Depletion Options                                  | Dry Depletion  | <input type="checkbox"/>            | Wet Depletion                       | <input type="checkbox"/>            | --  |
|  | Disable Dry Depletion                                    | <input type="checkbox"/>            | Disable Wet Depletion               | <input type="checkbox"/>            |   |
| Pollutant  | Other  |                                     |                                     |                                     | --  |
| Averaging Time Options                             | 1-Hour; Period   |                                     |                                     |                                     | --  |
| Dispersion Coefficient                             | Rural  | <input checked="" type="checkbox"/> | Urban                               | <input type="checkbox"/>            | Rural is the default assumption.                          |
| Terrain Height Options                             | Elevated   |                                     | <input checked="" type="checkbox"/> |                                     | --  |
|  | <i>Non-Default Regulatory Options</i>                    |                                     |                                     |                                     |   |
|  | Flat   | <input type="checkbox"/>            | Flat & Elevated                     | <input type="checkbox"/>            |   |
| Receptor Elevations / Hill Heights                 | Run AERMOD using the AERMAP Receptor Output file (*.ROU) |                                     |                                     |                                     | --  |
| <b>Source Pathway</b>                              |  |                                     |                                     |                                     |   |
| Building Downwash                                  | Include  | <input checked="" type="checkbox"/> | Exclude                             | <input type="checkbox"/>            | --  |
| Background Concentrations                          | Include  | <input type="checkbox"/>            | Exclude                             | <input checked="" type="checkbox"/> | This project does not consider background concentrations. |
| Source Groups                                      | Each exhaust stack is assigned to its own source group.  |                                     |                                     |                                     | --  |
| Urban Groups                                       | N/A  |                                     |                                     |                                     | --  |
| Variable Emissions                                 | N/A  |                                     |                                     |                                     | --  |

**Ventura Compressor Station Modernization Project**  
**Table E-2 AERMOD Dispersion Model Options/Assumptions**

| Parameter                    | Value  |                          |                          |                                     | Comments   |
|------------------------------|--|--------------------------|--------------------------|-------------------------------------|--|
| <b>Receptor Pathway</b>      |  |                          |                          |                                     |  |
| Flagpole Receptors           | Include  | <input type="checkbox"/> | Exclude                  | <input checked="" type="checkbox"/> | All receptors set to ground-level.                                       |
| Multi-Tier Receptor Grid     | Grid Origin: Centroid of Sources Polygon   |                          |                          |                                     | --   |
|                              | Tier   |                          | Distance from Center (m) | Tier Spacing (m)                    |  |
|                              | 1  |                          | 1000                     | 50                                  |  |
|                              | 2  |                          | 2000                     | 100                                 |  |
| Discrete Cartesian Receptors | Off-Site Worker: Receptor Nos. 84-113<br>Residential: Receptor Nos. 37-83<br>Sensitive: Receptor Nos. 1-36 |                          |                          |                                     | --   |
| Plant Boundary               | Receptor Spacing: 10 m   |                          |                          |                                     | Conservative receptor spacing.<br>Onsite gridded receptors are disabled. |
| <b>Meteorology Pathway</b>   |  |                          |                          |                                     |  |
| Meteorological Data          | Station: Onsite MET Station<br>Years: 2002-2003<br>Base Elevation of Surface Station: 18 m                 |                          |                          |                                     | Onsite Meteorological data.  |
| <b>Terrain Pathway</b>       |  |                          |                          |                                     |  |
| Data File                    | USGS_NED_1_n35w120.tif   |                          |                          |                                     | NED GEOTIFF Digital Terrain Files. Resolution: 1-arcsecond (30 meters).  |
| AERMAP Domain Options        | Not Specified  | <input type="checkbox"/> | User-Defined Domain      | <input checked="" type="checkbox"/> | --   |

**Ventura Compressor Station Modernization Project**  
**Table E-3 HARP2 Model Options/Assumptions**

| Parameter   | Value   |                                     |      |                                     | Comments   |
|---|---|-------------------------------------|------|-------------------------------------|--|
| <b>Model Version</b>                                      |   |                                     |      |                                     |  |
| HARP Version  | 22118   |                                     |      |                                     | --   |
| HARP Health Table Version                                 | 22343   |                                     |      |                                     | --   |
| <b>Multi-Pathway</b>                                      |   |                                     |      |                                     |  |
| Inhalation  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | --   |
| Soil  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | --   |
| Dermal  | Res   | <input checked="" type="checkbox"/> | Work | <input checked="" type="checkbox"/> | "Warm" climate.                                    |
| Mother's Milk   | Res   | <input checked="" type="checkbox"/> | Work | <input type="checkbox"/>            | --   |
| Drinking Water  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Fish  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Homegrown Produce   | Res   | <input checked="" type="checkbox"/> | Work | <input type="checkbox"/>            | Default for "Households that Garden".              |
| Beef/Dairy  | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Pigs, Chickens, and/or Eggs                               | Res   | <input type="checkbox"/>            | Work | <input type="checkbox"/>            | --   |
| Deposition Velocity                                       | 0.02 m/s  |                                     |      |                                     | Particulate matter from all sources is < 2.5 µg/m3 |
| <b>Residential Cancer Risk Assumptions</b>                |   |                                     |      |                                     |  |
| Exposure Duration   | 30 years  |                                     |      |                                     | --   |
| Fraction of Time at Home                                  | 3 <sup>rd</sup> Trimester to 16 years: Off<br>16 years to 30 years: On                    |                                     |      |                                     | There is a school within the cancer risk ZOI.      |
| Inhalation Rate Basis                                     | RMP   |                                     |      |                                     | --   |
| Analysis Option   | RMP Using the Derived Method  |                                     |      |                                     | --   |
| <b>Worker Cancer Risk Assumptions</b>                     |   |                                     |      |                                     |  |
| Exposure Duration   | 25 years  |                                     |      |                                     | --   |
| Analysis Option   | OEHHA Derived Method  |                                     |      |                                     | --   |
| Inhalation Rate Basis                                     | 8-hr Breathing Rates, Moderate Intensity  |                                     |      |                                     | --   |
| Worker Adjustment Factor                                  | 1   |                                     |      |                                     | Continuous operation                               |
| <b>Residential and Worker Non-Cancer Risk Assumptions</b> |   |                                     |      |                                     |  |
| Analysis Option   | OEHHA Derived Method  |                                     |      |                                     | --   |
| Inhalation Rate Basis                                     | Residential: Long-Term 24-hr<br>Off-Site Worker: 8-hr Breathing Rates, Moderate Intensity |                                     |      |                                     | --   |

**Table E-4: Ventura Compressor Station HRA  
Residential, Sensitive and Worker Receptors**

| UTM Northing (m) | UTM Easting (m) | Elevation (m) | Hill Height (m) | Group    | Name                              | Address/Location                     |
|------------------|-----------------|---------------|-----------------|----------|-----------------------------------|--------------------------------------|
| 288,518.13       | 3,797,452.01    | 19.78         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,568.59       | 3,797,440.01    | 19.92         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,613.55       | 3,797,427.57    | 20.32         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,627.40       | 3,797,395.62    | 20.20         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,617.41       | 3,797,357.26    | 19.98         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,564.90       | 3,797,370.95    | 19.31         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,511.76       | 3,797,387.96    | 19.04         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,514.30       | 3,797,413.69    | 19.28         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,486.31       | 3,797,421.61    | 19.24         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,454.07       | 3,797,429.53    | 18.99         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,635.75       | 3,797,352.98    | 20.04         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,481.02       | 3,797,460.89    | 19.44         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,483.03       | 3,797,487.04    | 19.52         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,489.73       | 3,797,509.17    | 19.72         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,484.37       | 3,797,522.92    | 19.84         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,487.58       | 3,797,538.42    | 20.08         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,487.58       | 3,797,554.17    | 20.33         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,509.50       | 3,797,505.41    | 19.85         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,509.90       | 3,797,522.77    | 19.97         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,515.81       | 3,797,541.70    | 20.27         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,513.84       | 3,797,482.13    | 19.82         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,499.64       | 3,797,456.10    | 19.64         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,537.12       | 3,797,540.52    | 20.37         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,435.04       | 3,797,572.12    | 20.30         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,427.55       | 3,797,544.50    | 19.95         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,421.24       | 3,797,523.20    | 19.71         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,417.09       | 3,797,503.99    | 19.53         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,414.94       | 3,797,493.75    | 19.45         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,453.94       | 3,797,509.25    | 19.62         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,460.75       | 3,797,547.63    | 20.11         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,445.12       | 3,797,485.69    | 19.41         | 353.21          | School   | E. P. Foster Elementary School    | 20 Pleasant Pl Ventura, CA 93001     |
| 288,558.62       | 3,797,551.71    | 20.72         | 353.21          | Daycare  | Macias Lynn Family Day Care       | 91 W McFarlane Dr Ventura, CA 93001  |
| 288,571.42       | 3,797,547.62    | 20.88         | 353.21          | Daycare  | Macias Lynn Family Day Care       | 91 W McFarlane Dr Ventura, CA 93001  |
| 288,569.05       | 3,797,566.98    | 20.96         | 353.21          | Daycare  | Macias Lynn Family Day Care       | 91 W McFarlane Dr Ventura, CA 93001  |
| 288,580.67       | 3,797,579.24    | 21.22         | 353.21          | Daycare  | Macias Lynn Family Day Care       | 91 W McFarlane Dr Ventura, CA 93001  |
| 288,567.12       | 3,797,583.22    | 21.02         | 353.21          | Daycare  | Macias Lynn Family Day Care       | 91 W McFarlane Dr Ventura, CA 93001  |
| 288,480.13       | 3,797,873.00    | 23.97         | 353.21          | Daycare  | VUSD Property (La Petite Academy) | 261 W Stanley Ave Ventura, CA 93001  |
| 288,480.13       | 3,797,923.00    | 24.74         | 353.21          | Daycare  | VUSD Property (La Petite Academy) | 261 W Stanley Ave Ventura, CA 93001  |
| 288,398.96       | 3,797,443.23    | 19.02         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,393.14       | 3,797,420.20    | 18.74         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,404.53       | 3,797,428.17    | 18.84         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,417.60       | 3,797,424.67    | 18.76         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,435.72       | 3,797,420.92    | 18.66         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,446.83       | 3,797,418.42    | 18.76         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,421.07       | 3,797,437.18    | 18.94         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,415.36       | 3,797,412.23    | 18.57         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,433.24       | 3,797,408.87    | 18.47         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,445.15       | 3,797,406.34    | 18.57         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,438.15       | 3,797,433.14    | 18.89         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,447.62       | 3,797,430.04    | 18.93         | 353.21          | Resident | Residential Receptor              | Resident Southeast of Facility       |
| 288,236.76       | 3,797,278.72    | 17.18         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,183.32       | 3,797,290.99    | 17.33         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,223.45       | 3,797,281.00    | 17.18         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,170.88       | 3,797,295.02    | 17.44         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,131.21       | 3,797,305.59    | 17.75         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,117.87       | 3,797,309.36    | 17.74         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,078.58       | 3,797,319.84    | 17.62         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,065.59       | 3,797,323.59    | 17.67         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,285.22       | 3,797,245.72    | 17.12         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,299.07       | 3,797,241.69    | 17.19         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,289.78       | 3,797,238.71    | 17.06         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,246.84       | 3,797,258.87    | 16.98         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,244.73       | 3,797,252.03    | 16.91         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,235.80       | 3,797,259.65    | 16.99         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,213.19       | 3,797,265.61    | 17.02         | 353.21          | Resident | Residential Receptor              | Resident South of Facility           |
| 288,431.99       | 3,797,644.65    | 21.18         | 353.21          | Resident | Residential Receptor              | Resident Bordering Eastern Fenceline |
| 288,428.65       | 3,797,630.42    | 20.99         | 353.21          | Resident | Residential Receptor              | Resident Bordering Eastern Fenceline |

**Table E-4: Ventura Compressor Station HRA  
Residential, Sensitive and Worker Receptors**

| UTM Northing (m) | UTM Easting (m) | Elevation (m) | Hill Height (m) | Group    | Name                           | Address/Location                        |
|------------------|-----------------|---------------|-----------------|----------|--------------------------------|---|
| 288,435.73       | 3,797,643.33    | 21.15         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,432.77       | 3,797,629.25    | 20.97         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,425.23       | 3,797,646.44    | 21.24         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,421.49       | 3,797,631.89    | 21.02         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,430.28       | 3,797,638.66    | 21.10         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,417.16       | 3,797,619.64    | 20.84         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,413.88       | 3,797,607.72    | 20.66         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,410.46       | 3,797,595.80    | 20.47         | 353.21          | Resident | Residential Receptor           | Resident Bordering Eastern Fenceline    |
| 288,446.39       | 3,797,617.24    | 20.84         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,441.49       | 3,797,599.66    | 20.63         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,443.94       | 3,797,605.77    | 20.71         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,439.96       | 3,797,587.37    | 20.50         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,473.47       | 3,797,591.82    | 20.79         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,488.94       | 3,797,589.14    | 20.86         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,475.32       | 3,797,611.42    | 20.94         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,492.04       | 3,797,606.05    | 20.99         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,467.69       | 3,797,576.34    | 20.60         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,484.40       | 3,797,571.80    | 20.62         | 353.21          | Resident | Residential Receptor           | Resident East of Facility               |
| 288,429.51       | 3,797,689.52    | 21.93         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,433.02       | 3,797,700.40    | 22.07         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,381.96       | 3,797,701.98    | 22.36         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,387.05       | 3,797,715.66    | 22.46         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,408.00       | 3,797,702.91    | 22.22         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,426.08       | 3,797,661.25    | 21.50         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,400.94       | 3,797,667.82    | 21.74         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,378.08       | 3,797,673.82    | 21.97         | 353.21          | Worker   | B & R Fabrication              | 1715 N Olive St Ventura, CA 93001       |
| 288,376.57       | 3,797,718.45    | 22.56         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,370.01       | 3,797,690.52    | 22.28         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,336.01       | 3,797,697.56    | 22.48         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,301.04       | 3,797,706.79    | 22.56         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,274.81       | 3,797,713.83    | 22.59         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,325.81       | 3,797,719.90    | 22.71         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,283.79       | 3,797,744.92    | 23.01         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,330.18       | 3,797,733.99    | 22.81         | 353.21          | Worker   | Ntt Equipment Repair & Fab     | 280A W Stanley Ave Ventura, CA 93001    |
| 288,297.95       | 3,797,696.06    | 22.43         | 353.21          | Worker   | Western Wireline Inc.          | 1689 N Olive St Ventura, CA 93001       |
| 288,314.94       | 3,797,691.24    | 22.43         | 353.21          | Worker   | Western Wireline Inc.          | 1689 N Olive St Ventura, CA 93001       |
| 288,475.65       | 3,797,618.90    | 20.98         | 353.21          | Worker   | United Rentals - Trench Safety | 1680 N Olive St Ventura, CA 93001       |
| 288,479.37       | 3,797,629.85    | 21.05         | 353.21          | Worker   | United Rentals - Trench Safety | 1680 N Olive St Ventura, CA 93001       |
| 288,531.21       | 3,797,652.15    | 21.33         | 353.21          | Worker   | United Rentals - Trench Safety | 1680 N Olive St Ventura, CA 93001       |
| 288,521.29       | 3,797,619.52    | 21.10         | 353.21          | Worker   | United Rentals - Trench Safety | 1680 N Olive St Ventura, CA 93001       |
| 288,517.78       | 3,797,606.51    | 20.99         | 353.21          | Worker   | United Rentals - Trench Safety | 1680 N Olive St Ventura, CA 93001       |
| 288,279.18       | 3,797,457.30    | 19.20         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,320.71       | 3,797,446.30    | 19.08         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,353.95       | 3,797,436.91    | 19.14         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,371.90       | 3,797,434.18    | 19.03         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,224.39       | 3,797,489.85    | 19.73         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,232.23       | 3,797,488.48    | 19.61         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |
| 288,224.39       | 3,797,476.22    | 19.58         | 353.21          | Worker   | T & T Truck & Crane Services   | 1375 N Olive St Ste A Ventura, CA 93001 |

**Cancer Risk by Source for All Pollutants Combined at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Operations HRA**

| Sources | Source Description  | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------|---------------------|--|------------------|------------------------------------|------------------|--|------------------|
|         |                     | receptor #                                   | 52               | receptor #                         | 36               | receptor #                                 | 112              |
|         |                     | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|         |                     | 288,170.88                                   | 3,797,295.02     | 288,567.12                         | 3,797,583.22     | 288,232.23                                 | 3,797,488.48     |
|         |                     | 30-Year Cancer Risk                          | Contribution (%) | 30-Year Cancer Risk                | Contribution (%) | 25-Year Cancer Risk                        | Contribution (%) |
| ALL     | --                  | 2.81E-06                                     | 100%             | 5.40E-07                           | 100%             | 1.25E-06                                   | 100%             |
| COMP1   | Compressor 1        | 1.28E-06                                     | 45.66%           | 2.47E-07                           | 45.83%           | 5.67E-07                                   | 45.20%           |
| COMP2   | Compressor 2        | 1.42E-06                                     | 50.55%           | 2.62E-07                           | 48.56%           | 6.11E-07                                   | 48.76%           |
| GEN     | Emergency Generator | 1.06E-07                                     | 3.78%            | 3.03E-08                           | 5.61%            | 7.57E-08                                   | 6.04%            |



**Maximum Cancer Risk by Pollutant at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Operations HRA**

| Pollutant CAS | Pollutant        | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------------|------------------|--|------------------|------------------------------------|------------------|--|------------------|
|               |                  | receptor #                                   | 52               | receptor #                         | 36               | receptor #                                 | 112              |
|               |                  | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|               |                  | 288,170.88                                   | 3,797,295.02     | 288,567.12                         | 3,797,583.22     | 288,232.23                                 | 3,797,488.48     |
|               |                  | 30-Year Cancer Risk                          | Contribution (%) | 30-Year Cancer Risk                | Contribution (%) | 25-Year Cancer Risk                        | Contribution (%) |
| -             | ALL              | 2.81E-06                                     | 100%             | 5.40E-07                           | 100%             | 1.25E-06                                   | 100.00%          |
| 50000         | Formaldehyde     | 1.15E-06                                     | 41.07%           | 2.22E-07                           | 41.07%           | 5.17E-07                                   | 41.27%           |
| 106990        | 1,3-Butadiene    | 1.07E-06                                     | 37.93%           | 2.05E-07                           | 37.93%           | 4.78E-07                                   | 38.10%           |
| 71432         | Benzene          | 4.23E-07                                     | 15.07%           | 8.13E-08                           | 15.07%           | 1.90E-07                                   | 15.14%           |
| 75070         | Acetaldehyde     | 7.48E-08                                     | 2.66%            | 1.44E-08                           | 2.66%            | 3.35E-08                                   | 2.68%            |
| 91203         | Naphthalene      | 3.12E-08                                     | 1.11%            | 6.00E-09                           | 1.11%            | 1.40E-08                                   | 1.12%            |
| 106934        | EDB              | 1.43E-08                                     | 0.51%            | 2.74E-09                           | 0.51%            | 6.40E-09                                   | 0.51%            |
| 79345         | TetraClEthane    | 1.36E-08                                     | 0.48%            | 2.60E-09                           | 0.48%            | 6.08E-09                                   | 0.48%            |
| 50328         | B[a]P            | 7.72E-09                                     | 0.27%            | 1.48E-09                           | 0.27%            | 2.58E-10                                   | 0.02%            |
| 56235         | CCl4             | 7.12E-09                                     | 0.25%            | 1.37E-09                           | 0.25%            | 3.19E-09                                   | 0.25%            |
| 75014         | Vinyl Chloride   | 5.19E-09                                     | 0.18%            | 9.96E-10                           | 0.18%            | 2.33E-09                                   | 0.19%            |
| 56553         | B[a]anthracene   | 2.93E-09                                     | 0.10%            | 5.62E-10                           | 0.10%            | 9.77E-11                                   | 0.01%            |
| 79005         | 1,1,2TriClEthan  | 2.34E-09                                     | 0.08%            | 4.49E-10                           | 0.08%            | 1.05E-09                                   | 0.08%            |
| 107062        | EDC              | 2.18E-09                                     | 0.08%            | 4.19E-10                           | 0.08%            | 9.77E-10                                   | 0.08%            |
| 205992        | B[b]fluoranthen  | 9.35E-10                                     | 0.03%            | 1.80E-10                           | 0.03%            | 3.12E-11                                   | 0.00%            |
| 207089        | B[k]fluoranthen  | 9.35E-10                                     | 0.03%            | 1.80E-10                           | 0.03%            | 3.12E-11                                   | 0.00%            |
| 53703         | D[a,h]anthracen  | 8.41E-10                                     | 0.03%            | 1.62E-10                           | 0.03%            | 5.33E-11                                   | 0.00%            |
| 67663         | Chloroform       | 6.98E-10                                     | 0.02%            | 1.34E-10                           | 0.02%            | 3.13E-10                                   | 0.02%            |
| 100414        | Ethyl Benzene    | 5.78E-10                                     | 0.02%            | 1.11E-10                           | 0.02%            | 2.59E-10                                   | 0.02%            |
| 193395        | In[1,2,3-cd]pyr  | 4.68E-10                                     | 0.02%            | 8.99E-11                           | 0.02%            | 1.56E-11                                   | 0.00%            |
| 75092         | Methylene Chlor  | 3.87E-10                                     | 0.01%            | 7.42E-11                           | 0.01%            | 1.73E-10                                   | 0.01%            |
| 218019        | Chrysene         | 3.16E-10                                     | 0.01%            | 6.07E-11                           | 0.01%            | 1.06E-11                                   | 0.00%            |
| 75343         | 1,1-DiClEthane   | 1.72E-10                                     | 0.01%            | 3.31E-11                           | 0.01%            | 7.73E-11                                   | 0.01%            |
| 108907        | Chlorobenzn      | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 67561         | Methanol         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 100425        | Styrene          | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 108883        | Toluene          | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 1330207       | Xylenes          | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 91576         | 2MeNaphthalene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 208968        | Acenaphthylene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 83329         | Acenaphthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 120127        | Anthracene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 192972        | B[e]pyrene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 191242        | B[g,h,i]perylene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 206440        | Fluoranthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 86737         | Fluorene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 198550        | Perylene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 85018         | Phenanthrene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 129000        | Pyrene           | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |

**Chronic Hazard Index by Source for All Pollutants Combined at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Operations HRA**

| Sources | Source Description  | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------|---------------------|--|------------------|------------------------------------|------------------|--|------------------|--|------------------|
|         |                     | receptor #                                   | 52               | receptor #                         | 36               | receptor #                                 | 113              | receptor #                                 | 113              |
|         |                     | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|         |                     | 288,170.88                                   | 3,797,295.02     | 288,567.12                         | 3,797,583.22     | 288,224.39                                 | 3,797,476.22     | 288,224.39                                 | 3,797,476.22     |
|         |                     | Chronic Hazard Index                         | Contribution (%) | Chronic Hazard Index               | Contribution (%) | Chronic Hazard Index                       | Contribution (%) | Chronic 8-hr Hazard Index                  | Contribution (%) |
| ALL     | --                  | 9.14E-03                                     | 100%             | 1.76E-03                           | 100%             | 1.11E-02                                   | 100%             | 4.62E-02                                   | 100%             |
| COMP1   | Compressor 1        | 4.18E-03                                     | 45.66%           | 8.05E-04                           | 45.83%           | 5.03E-03                                   | 45.22%           | 2.09E-02                                   | 45.22%           |
| COMP2   | Compressor 2        | 4.62E-03                                     | 50.55%           | 8.53E-04                           | 48.56%           | 5.41E-03                                   | 48.64%           | 2.25E-02                                   | 48.64%           |
| GEN     | Emergency Generator | 3.46E-04                                     | 3.78%            | 9.86E-05                           | 5.61%            | 6.83E-04                                   | 6.14%            | 2.84E-03                                   | 6.14%            |

## Note:

Individual sources are not additive because risk is based on specific target organs, which may be different per source



**Maximum Chronic Hazard Index by Pollutant at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Operations HRA**

| Pollutant CAS | Pollutant        | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  | Maximally Exposed Individual Worker (MEIW) 8-hour |                  |
|---------------|------------------|--|------------------|------------------------------------|------------------|--|------------------|---|------------------|
|               |                  | receptor #                                   | 52               | receptor #                         | 36               | receptor #                                 | 113              | receptor #  | 113              |
|               |                  | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) | UTM Easting (m)                                   | UTM Northing (m) |
|               |                  | 288,170.88                                   | 3,797,295.02     | 288,567.12                         | 3,797,583.22     | 288,224.39                                 | 3,797,476.22     | 288,224.39  | 3,797,476.22     |
|               |                  | Chronic Hazard Index                         | Contribution (%) | Chronic Hazard Index               | Contribution (%) | Chronic Hazard Index                       | Contribution (%) | Chronic 8-hr Hazard Index                         | Contribution (%) |
| -             | ALL              | 9.14E-03                                     | 100.00%          | 1.76E-03                           | 100.00%          | 1.11E-02                                   | 100.00%          | 4.62E-02  | 100.00%          |
| 50000         | Formaldehyde     | 9.02E-03                                     | 98.66%           | 1.73E-03                           | 98.66%           | 1.10E-02                                   | 98.66%           | 4.61E-02  | 99.59%           |
| 71432         | Benzene          | 2.08E-03                                     | 22.80%           | 4.00E-04                           | 22.80%           | 2.53E-03                                   | 22.80%           | 1.06E-02  | 23.02%           |
| 106990        | 1,3-Butadiene    | 1.31E-03                                     | 14.35%           | 2.52E-04                           | 14.35%           | 1.59E-03                                   | 14.35%           | 1.49E-03  | 3.22%            |
| 106934        | EDB              | 1.05E-04                                     | 1.15%            | 2.02E-05                           | 1.15%            | 1.28E-04                                   | 1.15%            | 0.00E+00  | 0.00%            |
| 75070         | Acetaldehyde     | 7.90E-05                                     | 0.86%            | 1.52E-05                           | 0.86%            | 9.60E-05                                   | 0.86%            | 1.88E-04  | 0.41%            |
| 91203         | Naphthalene      | 4.27E-05                                     | 0.47%            | 8.21E-06                           | 0.47%            | 5.19E-05                                   | 0.47%            | 0.00E+00  | 0.00%            |
| 108883        | Toluene          | 5.26E-06                                     | 0.06%            | 1.01E-06                           | 0.06%            | 6.40E-06                                   | 0.06%            | 1.36E-05  | 0.03%            |
| 67561         | Methanol         | 3.03E-06                                     | 0.03%            | 5.82E-07                           | 0.03%            | 3.68E-06                                   | 0.03%            | 0.00E+00  | 0.00%            |
| 56235         | CCl4             | 1.75E-06                                     | 0.02%            | 3.37E-07                           | 0.02%            | 2.13E-06                                   | 0.02%            | 0.00E+00  | 0.00%            |
| 1330207       | Xylenes          | 1.10E-06                                     | 0.01%            | 2.12E-07                           | 0.01%            | 1.34E-06                                   | 0.01%            | 0.00E+00  | 0.00%            |
| 75092         | Methylene Chlor  | 4.08E-07                                     | 0.00%            | 7.84E-08                           | 0.00%            | 4.96E-07                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 67663         | Chloroform       | 1.81E-07                                     | 0.00%            | 3.48E-08                           | 0.00%            | 2.20E-07                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 107062        | EDC              | 1.12E-07                                     | 0.00%            | 2.15E-08                           | 0.00%            | 1.36E-07                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 100425        | Styrene          | 5.24E-08                                     | 0.00%            | 1.01E-08                           | 0.00%            | 6.37E-08                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 108907        | Chlorobenzn      | 5.12E-08                                     | 0.00%            | 9.83E-09                           | 0.00%            | 6.22E-08                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 100414        | Ethyl Benzene    | 4.91E-08                                     | 0.00%            | 9.43E-09                           | 0.00%            | 5.97E-08                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 75014         | Vinyl Chloride   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 79345         | TetraClEthane    | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 50328         | B[a]P            | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 56553         | B[a]anthracene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 79005         | 1,1,2TriClEthane | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 205992        | B[b]fluoranthene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 207089        | B[k]fluoranthene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 53703         | D[a,h]anthracene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 193395        | In[1,2,3-cd]pyr  | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 218019        | Chrysene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 75343         | 1,1-DiClEthane   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 91576         | 2MeNaphthalene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 208968        | Acenaphthylene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 83329         | Acenaphthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 120127        | Anthracene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 192972        | B[e]pyrene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 191242        | B[g,h,i]perylene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 206440        | Fluoranthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 86737         | Fluorene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 198550        | Perylene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 85018         | Phenanthrene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |
| 129000        | Pyrene           | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            | 0.00E+00  | 0.00%            |

Note:  
Individual pollutants are not additive because risk is based on specific target organs, which may be different per pollutant.

**Acute Hazard Index by Source for All Pollutants Combined at MEIR, MEIW, and Non-Residential Sensitive Receptor  
VCS Operations HRA**

| Sources | Source Description  | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------|---------------------|--|------------------|------------------------------------|------------------|--|------------------|
|         |                     | receptor #                                   | 53               | receptor #                         | 29               | receptor #                                 | 108              |
|         |                     | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|         |                     | 288,131.21                                   | 3,797,305.59     | 288,453.94                         | 3,797,509.25     | 288,320.71                                 | 3,797,446.30     |
|         |                     | Acute Hazard Index                           | Contribution (%) | Acute Hazard Index                 | Contribution (%) | Acute Hazard Index                         | Contribution (%) |
| ALL     | --                  | 3.23E-02                                     | 100%             | 3.08E-02                           | 100%             | 2.34E-02                                   | 100%             |
| COMP1   | Compressor 1        | 9.50E-03                                     | 29.37%           | 7.92E-03                           | 25.71%           | 7.43E-03                                   | 31.69%           |
| COMP2   | Compressor 2        | 9.75E-03                                     | 30.15%           | 8.16E-03                           | 26.48%           | 8.83E-03                                   | 37.69%           |
| GEN     | Emergency Generator | 1.31E-02                                     | 40.49%           | 1.47E-02                           | 47.81%           | 7.18E-03                                   | 30.62%           |

## Note:

Individual sources are not additive because risk is based on specific target organs, which may be different per source

**Maximum Acute Hazard Index by Pollutant at MEIR, MEIW, and Non-Residential Sensitive Receptor  
 VCS Operations HRA**

| Pollutant CAS | Pollutant        | Maximally Exposed Individual Resident (MEIR) |                  | Non-Residential Sensitive Receptor |                  | Maximally Exposed Individual Worker (MEIW) |                  |
|---------------|------------------|--|------------------|------------------------------------|------------------|--|------------------|
|               |                  | receptor #                                   | 53               | receptor #                         | 29               | receptor #                                 | 108              |
|               |                  | UTM Easting (m)                              | UTM Northing (m) | UTM Easting (m)                    | UTM Northing (m) | UTM Easting (m)                            | UTM Northing (m) |
|               |                  | 288,131.21                                   | 3,797,305.59     | 288,453.94                         | 3,797,509.25     | 288,320.71                                 | 3,797,446.30     |
|               |                  | Acute Hazard Index                           | Contribution (%) | Acute Hazard Index                 | Contribution (%) | Acute Hazard Index                         | Contribution (%) |
| -             | ALL              | 3.23E-02                                     | 100%             | 3.08E-02                           | 100%             | 2.34E-02                                   | 100%             |
| 50000         | Formaldehyde     | 3.18E-02                                     | 98.40%           | 3.03E-02                           | 98.40%           | 2.31E-02                                   | 98.40%           |
| 71432         | Benzene          | 4.99E-03                                     | 15.44%           | 4.76E-03                           | 15.44%           | 3.62E-03                                   | 15.44%           |
| 75070         | Acetaldehyde     | 5.07E-04                                     | 1.57%            | 4.83E-04                           | 1.57%            | 3.67E-04                                   | 1.57%            |
| 106990        | 1,3-Butadiene    | 8.57E-05                                     | 0.27%            | 8.17E-05                           | 0.26%            | 6.21E-05                                   | 0.26%            |
| 108883        | Toluene          | 9.54E-06                                     | 0.03%            | 9.08E-06                           | 0.03%            | 6.91E-06                                   | 0.03%            |
| 67561         | Methanol         | 9.33E-06                                     | 0.03%            | 8.89E-06                           | 0.03%            | 6.76E-06                                   | 0.03%            |
| 67663         | Chloroform       | 7.80E-06                                     | 0.02%            | 7.43E-06                           | 0.02%            | 5.65E-06                                   | 0.02%            |
| 56235         | CCl4             | 7.96E-07                                     | 0.00%            | 7.58E-07                           | 0.00%            | 5.77E-07                                   | 0.00%            |
| 1330207       | Xylenes          | 7.57E-07                                     | 0.00%            | 7.21E-07                           | 0.00%            | 5.48E-07                                   | 0.00%            |
| 75092         | Methylene Chlor  | 2.51E-07                                     | 0.00%            | 2.39E-07                           | 0.00%            | 1.82E-07                                   | 0.00%            |
| 100425        | Styrene          | 4.85E-08                                     | 0.00%            | 4.62E-08                           | 0.00%            | 3.51E-08                                   | 0.00%            |
| 75014         | Vinyl Chloride   | 3.40E-09                                     | 0.00%            | 3.24E-09                           | 0.00%            | 2.46E-09                                   | 0.00%            |
| 91203         | Naphthalene      | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 106934        | EDB              | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 79345         | TetraClEthane    | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 50328         | B[a]P            | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 56553         | B[a]anthracene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 79005         | 1,1,2TriClEthane | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 107062        | EDC              | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 205992        | B[b]fluoranthene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 207089        | B[k]fluoranthene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 53703         | D[a,h]anthracene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 100414        | Ethyl Benzene    | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 193395        | In[1,2,3-cd]pyr  | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 218019        | Chrysene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 75343         | 1,1-DiClEthane   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 108907        | Chlorobenzene    | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 91576         | 2MeNaphthalene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 208968        | Acenaphthylene   | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 83329         | Acenaphthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 120127        | Anthracene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 192972        | B[e]pyrene       | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 191242        | B[g,h,i]perylene | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 206440        | Fluoranthene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 86737         | Fluorene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 198550        | Perylene         | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 85018         | Phenanthrene     | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |
| 129000        | Pyrene           | 0.00E+00                                     | 0.00%            | 0.00E+00                           | 0.00%            | 0.00E+00                                   | 0.00%            |

## Note:

Individual pollutants are not additive because risk is based on specific target organs, which may be different per pollutant

Figure E-1: Cancer Risk Locations of MEIR, MEIW, and Non-Residential Sensitive Receptor



- Purple Triangle.....MEIR
- Orange Triangle.....MEIW
- Blue Triangle.....Non-Residential Sensitive

Figure E-2: Chronic Risk Locations of MEIR, MEIW, and Non-Residential Sensitive Receptor



- Purple Triangle.....MEIR
- Orange Triangle.....MEIW (annual, 8-hour)
- Blue Triangle.....Non-Residential Sensitive

Figure E-3: Acute Risk Locations of MEIR, MEIW, and Non-Residential Sensitive Receptor



- Purple Triangle.....MEIR
- Orange Triangle.....MEIW
- Blue Triangle.....Non-Residential Sensitive

Table E-11: Cancer Risk Results

| Receptor                  | Exposure Duration | Cancer Risk (in a million) | UTM Easting (m) | UTM Northing (m) | Receptor Number | Receptor Name                |
|---------------------------|-------------------|----------------------------|-----------------|------------------|-----------------|------------------------------|
| MEIR                      | 30-Year           | 2.81                       | 288,171         | 3,797,295        | 52              | Westview Apartments          |
| Non-Residential Sensitive |                   | 0.54                       | 288,567         | 3,797,583        | 36              | Macias Lynn Family Day Care  |
| MEIW                      | 25-Year           | 1.25                       | 288,232         | 3,797,488        | 112             | T & T Truck & Crane Services |

Table E-12: Chronic Risk Results

| Receptor                  | Exposure Duration | Chronic Hazard Index | UTM Easting (m) | UTM Northing (m) | Receptor Number | Receptor Name                |
|---------------------------|-------------------|----------------------|-----------------|------------------|-----------------|------------------------------|
| MEIR                      | Annual            | 0.009                | 288,171         | 3,797,295        | 52              | Westview Apartments          |
| Non-Residential Sensitive |                   | 0.002                | 288,567         | 3,797,583        | 36              | Macias Lynn Family Day Care  |
| MEIW                      |                   | 0.01                 | 288,224         | 3,797,476        | 113             | T & T Truck & Crane Services |
| MEIW                      | 8-Hour            | 0.05                 | 288,224         | 3,797,476        | 113             | T & T Truck & Crane Services |

Table E-13: Acute Risk Results

| Receptor                  | Exposure Duration | Acute Hazard Index | UTM Easting (m) | UTM Northing (m) | Receptor Number | Receptor Name                  |
|---------------------------|-------------------|--------------------|-----------------|------------------|-----------------|--------------------------------|
| MEIR                      | 1-Hour            | 0.03               | 288,131         | 3,797,306        | 53              | Westview Apartments            |
| Non-Residential Sensitive |                   | 0.03               | 288,454         | 3,797,509        | 29              | E. P. Foster Elementary School |
| MEIW                      |                   | 0.02               | 288,321         | 3,797,446        | 108             | T & T Truck & Crane Services   |

## **ATTACHMENT F – GHG EMISSIONS AND ENERGY CALCULATIONS**

**Table F-1: Ventura Compressor Modernization Project - Summary GHG Emissions - Case 1 (2 x 2,500 HP EDC)**

**Table F-1a: Baseline GHG Emissions (MT/yr)**

| Greenhouse Gases       | Existing Compressor Engines | Existing Emergency Generator | Worker Vehicles | Indirect Auxiliary Electric Power | Total Baseline Emissions |
|------------------------|-----------------------------|------------------------------|-----------------|-----------------------------------|--------------------------|
| CO <sub>2</sub>        | 4,845                       | 0.63                         | 13.22           | 92.12                             | 4,951                    |
| CH <sub>4</sub>        | 0.09                        | 0.00                         | 0.00            | 0.01                              | 0.10                     |
| N <sub>2</sub> O       | 0.01                        | 0.00                         | 0.00            | 0.00                              | 0.01                     |
| <b>CO<sub>2</sub>e</b> | <b>4,850</b>                | <b>1</b>                     | <b>13</b>       | <b>93</b>                         | <b>4,957</b>             |

**Table F-1b: Project GHG Emissions (MT/yr) - Case 1 (2 x 2,500 HP EDC)**

| Greenhouse Gases       | New Compressor Engines | New Standby Generator | Worker Vehicles | Indirect Auxiliary & EDC Electric Power | Total Project Emissions |
|------------------------|------------------------|-----------------------|-----------------|---|-------------------------|
| CO <sub>2</sub>        | 1,723                  | 79                    | 17.62           | 2,526                                   | 4,346                   |
| CH <sub>4</sub>        | 0.03                   | 0.00                  | 0.00            | 0.32                                    | 0.35                    |
| N <sub>2</sub> O       | 0.00                   | 0.00                  | 0.00            | 0.04                                    | 0.04                    |
| <b>CO<sub>2</sub>e</b> | <b>1,725</b>           | <b>79</b>             | <b>18</b>       | <b>2,546</b>                            | <b>4,368</b>            |

**Table F-1c: Project GHG Significance Evaluation**

| Item  | Annual CO <sub>2</sub> e (MT/yr) |
|---|----------------------------------|
| Total Direct Project Net Emissions (Project-Baseline)   | (3,042)                          |
| Total Indirect Project Net Emissions (Project-Baseline) | 2,453                            |
| Amortized Construction Emissions                        | 198                              |
| <b>Total Operation Net Emissions + Construction</b>     | <b>(391)</b>                     |
| <b>Significance Threshold</b>                           | <b>10,000</b>                    |
| <b>NEI Significant?</b>                                 | <b>No</b>                        |
| <b>Mitigation Required</b>                              | <b>None</b>                      |

Notes:

Project emissions based on Projected actual usage for the new compressor engines, emergency generator, and electric power  
 Baseline emissions based on HAE for 2021-2022 for gas compressors, emergency generator and electric power

**Table F-2: Ventura Compressor Modernization Project - Summary GHG Emissions - Case 2 (2 x 2,000 HP EDC)**

**Table F-2a: Baseline GHG Emissions (MT/yr)**

| Greenhouse Gases       | Existing Compressor Engines | Existing Emergency Generator | Worker Vehicles | Indirect Auxiliary Electric Power | Total Baseline Emissions |
|------------------------|-----------------------------|------------------------------|-----------------|-----------------------------------|--------------------------|
| CO <sub>2</sub>        | 4,845                       | 0.63                         | 13.22           | 92.12                             | 4,951                    |
| CH <sub>4</sub>        | 0.09                        | 0.00                         | 0.00            | 0.01                              | 0.10                     |
| N <sub>2</sub> O       | 0.01                        | 0.00                         | 0.00            | 0.00                              | 0.01                     |
| <b>CO<sub>2</sub>e</b> | <b>4,850</b>                | <b>1</b>                     | <b>13</b>       | <b>93</b>                         | <b>4,957</b>             |

**Table F-2b: Project GHG Emissions (MT/yr) - Case 2 (2 x 2,000 HP EDC)**

| Greenhouse Gases       | New Compressor Engines | New Standby Generator | Worker Vehicles | Indirect Auxiliary & EDC Electric Power | Total Project Emissions |
|------------------------|------------------------|-----------------------|-----------------|---|-------------------------|
| CO <sub>2</sub>        | 3,071                  | 79                    | 17.62           | 2,209                                   | 5,377                   |
| CH <sub>4</sub>        | 0.06                   | 0.00                  | 0.00            | 0.28                                    | 0.34                    |
| N <sub>2</sub> O       | 0.01                   | 0.00                  | 0.00            | 0.03                                    | 0.04                    |
| <b>CO<sub>2</sub>e</b> | <b>3,074</b>           | <b>79</b>             | <b>18</b>       | <b>2,226</b>                            | <b>5,397</b>            |

**Table F-2c: Project GHG Significance Evaluation**

| Item  | Annual CO <sub>2</sub> e (MT/yr) |
|---|----------------------------------|
| Total Direct Project Net Emissions (Project-Baseline)   | (1,693)                          |
| Total Indirect Project Net Emissions (Project-Baseline) | 2,133                            |
| Amortized Construction Emissions                        | 198                              |
| <b>Total Operation Net Emissions + Construction</b>     | <b>639</b>                       |
| <b>Significance Threshold</b>                           | <b>10,000</b>                    |
| <b>NEI Significant?</b>                                 | <b>No</b>                        |
| <b>Mitigation Required</b>                              | <b>None</b>                      |

Notes:

Project emissions based on Projected actual usage for the new compressor engines, emergency generator, and electric power  
Baseline emissions based on HAE for 2021-2022 for gas compressors, emergency generator and electric power

**Table F-3: Project Case 1 GHG Emission Estimates**

**Table F-3a: Natural Gas Process Rates**

| Parameter                               | New Compressor Engine 1 | New Compressor Engine 2 | New Standby Generator <sup>1</sup> | Total  |
|---|-------------------------|-------------------------|------------------------------------|--------|
| Annual Process Rate (MMBtu/yr)          | 16,249.0                | 16,249.0                | 1,496                              | 33,994 |
| Annual Fuel Use (MMscf/yr) <sup>2</sup> | 15.930                  | 15.930                  | 1.467                              | 33.327 |

Notes:

<sup>1</sup> 7.48 MMBtu/hr for 200 hrs/yr

<sup>2</sup> Default HHV = 1,020 Btu/cf

**Table F-3b: Electric Power Process Rates - Case 1 (2 x 2,500 HP EDC)**

| Parameter                     | New EDC 1 | New EDC 2 | Average Plant Loads <sup>1</sup> | Total  |
|-------------------------------|-----------|-----------|----------------------------------|--------|
| Annual Process Rate (MWh/yr)  | 7,451     | 7,451     | 6,454                            | 21,356 |
| Rated Load (kW)               | 1,963.2   | 1,963.2   | 736.8                            | —      |
| Operating Hours at Rated Load | 3,795     | 3,795     | 8,760                            | —      |

Notes:

<sup>1</sup> Average Plant Loads at 51.9% annual capacity factor

**Table F-3c: GHG Emission Factors**

| Greenhouse Gases       | GWP <sup>1</sup> | Natural Gas (kg/MMBtu) <sup>2</sup> | Electric Power (lbs/MWh) <sup>3</sup> |
|------------------------|------------------|-------------------------------------|---------------------------------------|
| CO <sub>2</sub>        | 1                | 53.02                               | 260.788                               |
| CH <sub>4</sub>        | 25               | 0.001                               | 0.033                                 |
| N <sub>2</sub> O       | 298              | 0.0001                              | 0.004                                 |
| <b>CO<sub>2</sub>e</b> | -                | <b>53.07</b>                        | <b>262.8</b>                          |

Notes:

<sup>1</sup> Table A-1 to Subpart A of Part 98—Global Warming Potentials (CO<sub>2</sub> = 1, CH<sub>4</sub> = 25, N<sub>2</sub>O = 298)

<sup>2</sup> 40 CFR 98 Subpart C - Default GHG Emission Factors and Higher Heating Values for Various Fuels

<sup>3</sup> CalEEMod SCE 2031 Power Content (<https://www.caleemod.com/user-guide>)

**Table F-3d: Project Emissions (MT/yr) - Case 1 (2 x 2,500 HP EDC)**

| Greenhouse Gases       | New Compressor Engines | New Standby Generator | Worker Vehicles | Indirect Emissions | Total Project Emissions |
|------------------------|------------------------|-----------------------|-----------------|--------------------|-------------------------|
| CO <sub>2</sub>        | 1723.0                 | 79.3                  | 17.6            | 2526.3             | 4346.2                  |
| CH <sub>4</sub>        | 0.0325                 | 0.0015                | 0.00            | 0.32               | 0.35                    |
| N <sub>2</sub> O       | 0.0032                 | 0.0001                | 0.00            | 0.04               | 0.04                    |
| <b>CO<sub>2</sub>e</b> | <b>1,725</b>           | <b>79</b>             | <b>18</b>       | <b>2,546</b>       | <b>4,368</b>            |

Notes:

Project emissions based on Projected actual usage for the 2 new compressor engines and emergency generator and electricity usage

Commuting emissions based on 4 worker vehicles commuting up to 32 miles per trip one way calculated with EMFAC

1,900 HP NG units (engines)= **32,498** MMBtu/year total for both gas engine units (projected)  
 2,500 HP EDC units (motors)= **14,901,644** kWh/year total for both electric motor units (projected)

**Table F-3e: Standard Physical Constants**

| Description     | Value   | Units   |
|-----------------|---------|---------|
| Mass Conversion | 453.6   | g/lb    |
| Mass Conversion | 2,204.6 | lbs/MT  |
| Default HHV     | 1,020   | BTU/scf |

**Table F-4: Project Case 2 GHG Emission Estimates**

**Table F-4a: Natural Gas Process Rates**

| Parameter                               | New Compressor Engine 1 | New Compressor Engine 2 | New Standby Generator <sup>1</sup> | Total  |
|---|-------------------------|-------------------------|------------------------------------|--------|
| Annual Process Rate (MMBtu/yr)          | 28,962.0                | 28,962.0                | 1,496                              | 59,420 |
| Annual Fuel Use (MMscf/yr) <sup>2</sup> | 28.394                  | 28.394                  | 1.467                              | 58.255 |

Notes:

<sup>1</sup> 7.48 MMBtu/hr for 200 hrs/yr

<sup>2</sup> Default HHV = 1,020 Btu/cf

**Table F-4b: Electric Power Process Rates - Case 2 (2 x 2,000 HP EDC)**

| Parameter                     | New EDC 1 | New EDC 2 | Average Plant Loads <sup>1</sup> | Total  |
|-------------------------------|-----------|-----------|----------------------------------|--------|
| Annual Process Rate (MWh/yr)  | 6,109     | 6,109     | 6,454                            | 18,672 |
| Rated Load (kW)               | 1,570.5   | 1,570.5   | 736.8                            | —      |
| Operating Hours at Rated Load | 3,890     | 3,890     | 8,760                            | —      |

Notes:

<sup>1</sup> Average Plant Loads at 51.9% annual capacity factor

**Table F-4c: GHG Emission Factors**

| Greenhouse Gases       | GWP <sup>1</sup> | Natural Gas (kg/MMBtu) <sup>2</sup> | Electric Power (lbs/MWh) <sup>3</sup> |
|------------------------|------------------|-------------------------------------|---------------------------------------|
| CO <sub>2</sub>        | 1                | 53.02                               | 260.788                               |
| CH <sub>4</sub>        | 25               | 0.001                               | 0.033                                 |
| N <sub>2</sub> O       | 298              | 0.0001                              | 0.004                                 |
| <b>CO<sub>2</sub>e</b> | -                | <b>53.07</b>                        | <b>262.8</b>                          |

Notes:

<sup>1</sup> Table A-1 to Subpart A of Part 98—Global Warming Potentials (CO<sub>2</sub> = 1, CH<sub>4</sub> = 25, N<sub>2</sub>O = 298)

<sup>2</sup> 40 CFR 98 Subpart C - Default GHG Emission Factors and Higher Heating Values for Various Fuels

<sup>3</sup> CalEEMod SCE 2031 Power Content (<https://www.caleemod.com/user-guide>)

**Table F-4d: Project Emissions (MT/yr) - Case 2 (2 x 2,000 HP EDC)**

| Greenhouse Gases       | New Compressor Engines | New Standby Generator | Worker Vehicles | Indirect Emissions | Total Project Emissions |
|------------------------|------------------------|-----------------------|-----------------|--------------------|-------------------------|
| CO <sub>2</sub>        | 3071.1                 | 79.3                  | 17.6            | 2208.7             | 5376.8                  |
| CH <sub>4</sub>        | 0.0579                 | 0.0015                | 0.00            | 0.28               | 0.34                    |
| N <sub>2</sub> O       | 0.0058                 | 0.0001                | 0.00            | 0.03               | 0.04                    |
| <b>CO<sub>2</sub>e</b> | <b>3,074</b>           | <b>79</b>             | <b>18</b>       | <b>2,226</b>       | <b>5,397</b>            |

Notes:

Project emissions based on Projected actual usage for the 2 new compressor engines and emergency generator and electricity usage

Commuting emissions based on 4 worker vehicles commuting up to 32 miles per trip one way calculated with EMFAC

1,900 HP NG units (engines)= **57,924** MMBtu/year total for both gas engine units (projected)  
 2,000 HP EDC units (motors)= **12,217,175** kWh/year total for both electric motor units (projected)

**Table F-4e: Standard Physical Constants**

| Description     | Value   | Units   |
|-----------------|---------|---------|
| Mass Conversion | 453.6   | g/lb    |
| Mass Conversion | 2,204.6 | lbs/MT  |
| Default HHV     | 1,020   | BTU/scf |

**Table F-5: Project Baseline GHG Emission Estimates**

**Table F-5a: Baseline Process Throughputs**

| Year | HP1 (MMscf) | HP2 (MMscf) | HP3 (MMscf) | Diesel Generator (gallons) | Electric Power (MWh) |
|------|-------------|-------------|-------------|----------------------------|----------------------|
| 2021 | 26.316      | 29.364      | 28.003      | 103.39                     | 529.151              |
| 2022 | 32.076      | 28.276      | 35.150      | 19.12                      | 569.621              |

**Table F-5b: Emission Factors**

| Greenhouse Gases       | GWP <sup>1</sup> | Natural Gas (kg/MMBtu) <sup>2</sup> | Natural Gas (lbs/MMscf) | Diesel Fuel (kg/gal) <sup>2</sup> | Electric Power (lbs/MWh) <sup>3</sup> |
|------------------------|------------------|-------------------------------------|-------------------------|-----------------------------------|---------------------------------------|
| CO <sub>2</sub>        | 1                | 53.02                               | 119,225                 | 10.21                             | 369.671                               |
| CH <sub>4</sub>        | 25               | 0.001                               | 2.25                    | 0.0004                            | 0.033                                 |
| N <sub>2</sub> O       | 298              | 0.0001                              | 0.22                    | 0.00008                           | 0.004                                 |
| <b>CO<sub>2</sub>e</b> | -                | <b>53.07</b>                        | <b>119,348</b>          | <b>10.24</b>                      | <b>371.7</b>                          |

Notes:

<sup>1</sup> Table A-1 to Subpart A of Part 98—Global Warming Potentials (CO<sub>2</sub> = 1, CH<sub>4</sub> = 25, N<sub>2</sub>O = 298)

<sup>2</sup> 40 CFR 98 Subpart C - Default GHG Emission Factors and Higher Heating Values for Various Fuels

<sup>3</sup> CalEEMod SCE 2021 & 2022 Average Power Content (<https://www.caleemod.com/user-guide>)

**Table F-5c: 2021 Emissions (MT/yr)**

| Greenhouse Gases       | HP1          | HP2          | HP3          | Total        |
|------------------------|--------------|--------------|--------------|--------------|
| CO <sub>2</sub>        | 1,423        | 1,588        | 1,514.40     | 4,525.58     |
| CH <sub>4</sub>        | 0.027        | 0.030        | 0.029        | 0.085        |
| N <sub>2</sub> O       | 0.003        | 0.003        | 0.003        | 0.009        |
| <b>CO<sub>2</sub>e</b> | <b>1,425</b> | <b>1,590</b> | <b>1,516</b> | <b>4,530</b> |

**Table F-5d: 2022 Emissions (MT/yr)**

| Greenhouse Gases       | HP1          | HP2          | HP3          | Total        |
|------------------------|--------------|--------------|--------------|--------------|
| CO <sub>2</sub>        | 1,734.67     | 1,529.17     | 1,900.91     | 5,164.75     |
| CH <sub>4</sub>        | 0.033        | 0.029        | 0.036        | 0.097        |
| N <sub>2</sub> O       | 0.003        | 0.003        | 0.004        | 0.010        |
| <b>CO<sub>2</sub>e</b> | <b>1,736</b> | <b>1,531</b> | <b>1,903</b> | <b>5,170</b> |

**Table F-5e: Baseline GHG Emissions (MT/yr)**

| Greenhouse Gases       | Compressor Engines | Emergency Generator | Worker Vehicles | Indirect Emissions | Total Baseline Emissions |
|------------------------|--------------------|---------------------|-----------------|--------------------|--------------------------|
| CO <sub>2</sub>        | 4,845.17           | 0.63                | 13.22           | 92.12              | 4,951.13                 |
| CH <sub>4</sub>        | 0.091              | 0.00003             | 0.0002          | 0.008              | 0.100                    |
| N <sub>2</sub> O       | 0.009              | 0.00001             | 0.0003          | 0.001              | 0.010                    |
| <b>CO<sub>2</sub>e</b> | <b>4,850</b>       | <b>1</b>            | <b>13</b>       | <b>93</b>          | <b>4,957</b>             |

Notes:

Baseline emissions based on HAE for 2021-2022 for gas compressors and emergency generator

Baseline indirect emissions based 2021-2022 electricity usage

Commuting emissions based on 3 worker vehicles commuting up to 32 miles per trip one way calculated with EMFAC

**Table F-5f: Standard Physical Constants**

| Description     | Value   | Units   |
|-----------------|---------|---------|
| Mass Conversion | 453.6   | g/lb    |
| Mass Conversion | 2,204.6 | lbs/MT  |
| Default HHV     | 1,020   | BTU/scf |

**Table F-6: Energy Estimates - Case 1 (2 x 2,500 HP EDC)**

**Table F-6a: Estimated Operation Natural Gas Consumption - Case 1 (2 x 2,500 HP EDC)**

| Device  | Type       | Power Output (BHP) | Fuel Consumption (MMcf/yr) |
|---|------------|--------------------|----------------------------|
| <b>New Equipment Operation (Projected Actual)</b>       |            |                    |                            |
| New Compressor Engine 1                                 | Gas Engine | 1,900              | 15.93                      |
| New Compressor Engine 2                                 | Gas Engine | 1,900              | 15.93                      |
| New Standby Generator                                   | Gas Engine | 840                | 1.47                       |
| <b>Total Annual Natural Gas Consumption (Projected)</b> |            |                    | <b>33.33</b>               |
| <b>Existing Equipment Actuals (2021-2022 Baseline)</b>  |            |                    |                            |
| Existing Compressor HP1                                 | Gas Engine | 1,100              | 29.20                      |
| Existing Compressor HP2                                 | Gas Engine | 1,100              | 28.82                      |
| Existing Compressor HP3                                 | Gas Engine | 1,100              | 31.58                      |
| <b>Total Annual Natural Gas Consumption (Actuals)</b>   |            |                    | <b>89.59</b>               |
| <b>Net Annual Natural Gas Consumption</b>               |            |                    | <b>(56.27)</b>             |

**Table F-6b: Estimated Operation Electric Power Usage - Case 1 (2 x 2,500 HP EDC)**

| Device   | Type          | Energy Input (kW) | Electric Power (MWh/yr) |
|--|---------------|-------------------|-------------------------|
| <b>New Equipment Operation (Projected Actual)</b>          |               |                   |                         |
| New 2,500 HP EDC 1   | 3-Phase Motor | 1,963.2           | 7,451                   |
| New 2,500 HP EDC 2   | 3-Phase Motor | 1,963.2           | 7,451                   |
| Plant Utilities & Auxiliaries <sup>1</sup>                 | Other Loads   | 736.8             | 6,454                   |
| <b>Total Annual Electric Power Consumption (Projected)</b> |               |                   | <b>21,356</b>           |
| <b>Existing Equipment Actuals (2021-2022 Baseline)</b>     |               |                   |                         |
| Plant Utilities & Auxiliaries <sup>2</sup>                 | Other Loads   | 62.7              | 549                     |
| <b>Total Annual Electric Power Consumption (Actuals)</b>   |               |                   | <b>549</b>              |
| <b>Net Annual Electric Power Consumption</b>               |               |                   | <b>20,807</b>           |

Notes:

<sup>1</sup> Projected annual capacity for non-compressor equipment

<sup>2</sup> Average actual electric power usage during 2021 and 2022

**4.66 MW peak load**

**Table F-7: Energy Estimates - Case 2 (2 x 2,000 HP EDC)**

**Table F-7a: Estimated Operation Natural Gas Consumption - Case 2 (2 x 2,000 HP EDC)**

| Device  | Type       | Power Output (BHP) | Fuel Consumption (MMcf/yr) |
|---|------------|--------------------|----------------------------|
| <b>New Equipment Operation (Projected Actual)</b>       |            |                    |                            |
| New Compressor Engine 1                                 | Gas Engine | 1,900              | 28.39                      |
| New Compressor Engine 2                                 | Gas Engine | 1,900              | 28.39                      |
| New Back-up Generator                                   | Gas Engine | 840                | 1.47                       |
| <b>Total Annual Natural Gas Consumption (Projected)</b> |            |                    | <b>58.25</b>               |
| <b>Existing Equipment Actuals (2021-2022 Baseline)</b>  |            |                    |                            |
| Existing Compressor HP1                                 | Gas Engine | 1,100              | 29.20                      |
| Existing Compressor HP2                                 | Gas Engine | 1,100              | 28.82                      |
| Existing Compressor HP3                                 | Gas Engine | 1,100              | 31.58                      |
| <b>Total Annual Natural Gas Consumption (Actuals)</b>   |            |                    | <b>89.59</b>               |
| <b>Net Annual Natural Gas Consumption</b>               |            |                    | <b>(31.34)</b>             |

**Table F-7b: Estimated Operation Electric Power Usage - Case 2 (2 x 2,000 HP EDC)**

| Device   | Type          | Energy Input (kW) | Electric Power (MWh/yr) |
|--|---------------|-------------------|-------------------------|
| <b>New Equipment Operation (Projected Actual)</b>          |               |                   |                         |
| New 2,000 HP EDC 1   | 3-Phase Motor | 1,570.5           | 6,109                   |
| New 2,000 HP EDC 2   | 3-Phase Motor | 1,570.5           | 6,109                   |
| Plant Utilities & Auxiliaries <sup>1</sup>                 | Other Loads   | 736.8             | 6,454                   |
| <b>Total Annual Electric Power Consumption (Projected)</b> |               |                   | <b>18,672</b>           |
| <b>Existing Equipment Actuals (2021-2022 Baseline)</b>     |               |                   |                         |
| Plant Utilities & Auxiliaries <sup>2</sup>                 | Other Loads   | 62.7              | 549                     |
| <b>Total Annual Electric Power Consumption (Actuals)</b>   |               |                   | <b>549</b>              |
| <b>Net Annual Electric Power Consumption</b>               |               |                   | <b>18,122</b>           |

Notes:

<sup>1</sup> Projected annual capacity for non-compressor equipment

<sup>2</sup> Average actual electric power usage during 2021 and 2022

**3.88 MW peak load**

**Table F-8: Worker Commute GHG Emission Estimates**

**Table F-8a: VCM Worker Commuting Mobile Source Emissions - Baseline (3 workers)**

| Greenhouse Gases       | Daily (lbs/day) | Annual (MT/yr) |
|------------------------|-----------------|----------------|
| CO <sub>2</sub>        | 112.1           | 13.22          |
| CH <sub>4</sub>        | 0.001           | 0.0002         |
| N <sub>2</sub> O       | 0.002           | 0.0003         |
| <b>CO<sub>2</sub>e</b> | <b>113</b>      | <b>13</b>      |

Sources: EMFAC2021, IPCC 2007 (AR4)

Notes:

Aggregated LDA, LDT1, LDT2 mix for 2031; gasoline fuel

Baseline assumes 3 workers in 3 vehicles

Daily VMT = 192 miles/day (6 trips x 32 miles one-way in Ventura County)

**Table F-8b: VCM Worker Commuting Mobile Source Emissions - Project (4 workers)**

| Greenhouse Gases       | Daily (lbs/day) | Annual (MT/yr) |
|------------------------|-----------------|----------------|
| CO <sub>2</sub>        | 149.4           | 17.62          |
| CH <sub>4</sub>        | 0.002           | 0.0002         |
| N <sub>2</sub> O       | 0.003           | 0.0003         |
| <b>CO<sub>2</sub>e</b> | <b>150</b>      | <b>18</b>      |

Sources: EMFAC2021, IPCC 2007 (AR4)

Notes:

Aggregated LDA, LDT1, LDT2 mix for 2031; gasoline fuel

Project assumes 4 workers in 4 vehicles

Daily VMT = 256 miles/day (8 trips x 32 miles one-way in Ventura County)

**Table F-8c: VCM Worker Commuting Mobile Source Emissions - Project Increase (from 3 to 4 workers)**

| Greenhouse Gases       | Daily (lbs/day) | Annual (MT/yr) |
|------------------------|-----------------|----------------|
| CO <sub>2</sub>        | 37.4            | 4.4            |
| CH <sub>4</sub>        | 0.000           | 0.0001         |
| N <sub>2</sub> O       | 0.001           | 0.0001         |
| <b>CO<sub>2</sub>e</b> | <b>38</b>       | <b>4</b>       |

**Table F-8d: VCM Worker Commuting Estimated Energy Use**

| Fuel/Period       | MT CO <sub>2</sub> | CO <sub>2</sub> Emission Factor (kg/gal) | Fuel Consumption (gal/yr) |
|-------------------|--------------------|--|---------------------------|
| Gasoline/Baseline | 13.2               | 8.78                                     | 1,510                     |
| Gasoline/Project  | 17.6               | 8.78                                     | 2,010                     |
| Gasoline/Increase | 4.4                | 8.78                                     | 500                       |

Sources: EMFAC2021, 40 CFR 98 Subpart C

Notes:

Aggregated LDA, LDT1, LDT2 mix for 2031; gasoline fuel

Assumes 3 workers in 3 vehicles Baseline

Assumes 4 workers in 4 vehicles Project

Baseline Daily VMT = 192 miles/day (6 trips x 32 miles one-way in Ventura County)

Project Daily VMT = 256 miles/day (8 trips x 32 miles one-way in Ventura County)

Table F-9: Electrical Load Chart

| Tag        | LOAD DESCRIPTION                                    | LOAD    |       |         |      |      |     | SOURCE       |        | CONNECTED      |               |              | RUNNING       |              |             |            |
|------------|---|---------|-------|---------|------|------|-----|--------------|--------|----------------|---------------|--------------|---------------|--------------|-------------|------------|
|            |   | Voltage | Phase | Size    | Unit | PF   | EFF | On Generator | Source | Connected Amps | Connected KVA | Connected KW | Demand Factor | Running Amps | Running KVA | Running KW |
| EM-3402    | Jacket Water / Auxiliary Water Cooler Fan (Train 1) | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.8          | 37.53         | 31.21        | 28.08       |            |
| PM-3404    | Aux Lube Oil Pump (Train 1)                         | 480     | 3     | 5 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 5.86   | 4.88           | 4.39          | 0.0          | 0.00          | 0.00         | 0.00        |            |
| CP-3400    | Engine/Compressor Control Panel #1                  | 480     | 3     | 1 KW    | 1    | -    | Y   | MCC-1000     | 1.20   | 1.00           | 1.00          | 1.0          | 1.20          | 1.00         | 1.00        |            |
| HE-3402    | Hot Start Compressor Engine Oil Heater (Train 1)    | 480     | 3     | 9 KW    | 1    | -    | Y   | MCC-1000     | 10.83  | 9.00           | 9.00          | 1.0          | 10.83         | 9.00         | 9.00        |            |
| HE-3405    | Hot Start Circulating Water Heater (Train 1)        | 480     | 3     | 30 KW   | 1    | -    | Y   | MCC-1000     | 36.08  | 30.00          | 30.00         | 1.0          | 36.08         | 30.00        | 30.00       |            |
| PM-3402    | Hot Start Circulating Water Pumps (Train 1)         | 480     | 3     | 1.5 KW  | 1    | -    | Y   | MCC-1000     | 1.80   | 1.50           | 1.50          | 1.0          | 1.80          | 1.50         | 1.50        |            |
| PM-3405    | Hot Start Engine Circulating Oil Pump (Train 1)     | 480     | 3     | 30 KW   | 1    | -    | Y   | MCC-1000     | 36.08  | 30.00          | 30.00         | 1.0          | 36.08         | 30.00        | 30.00       |            |
| HE-3404    | Compressor Frame Oil Heater (Train 1)               | 480     | 3     | 2.5 KW  | 1    | -    | Y   | MCC-1000     | 3.01   | 2.50           | 2.50          | 1.0          | 3.01          | 2.50         | 2.50        |            |
| PM-3403    | Compressor Cylinder Oil Pump (Train 1)              | 480     | 3     | 1 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 1.17   | 0.98           | 0.88          | 0.8          | 0.94          | 0.78         | 0.70        |            |
| EM-3400A   | Discharge Cooler Fan #1 (Train 1)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-3400B   | Discharge Cooler Fan #2 (Train 1)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-3502    | Jacket Water / Auxiliary Water Cooler Fan (Train 2) | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.8          | 37.53         | 31.21        | 28.08       |            |
| PM-3504    | Aux Lube Oil Pump (Train 2)                         | 480     | 3     | 5 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 5.86   | 4.88           | 4.39          | 0.0          | 0.00          | 0.00         | 0.00        |            |
| CP-3500    | Engine/Compressor Control Panel #2                  | 480     | 3     | 1 KW    | 0.9  | -    | Y   | MCC-1000     | 1.34   | 1.11           | 1.00          | 1.0          | 1.34          | 1.11         | 1.00        |            |
| HE-3502    | Hot Start Compressor Engine Oil Heater (Train 2)    | 480     | 3     | 9 KW    | 1    | -    | Y   | MCC-1000     | 10.83  | 9.00           | 9.00          | 1.0          | 10.83         | 9.00         | 9.00        |            |
| HE-3505    | Hot Start Circulating Water Heater (Train 2)        | 480     | 3     | 30 KW   | 1    | -    | Y   | MCC-1000     | 36.08  | 30.00          | 30.00         | 1.0          | 36.08         | 30.00        | 30.00       |            |
| PM-3502    | Hot Start Circulating Water Pumps (Train 2)         | 480     | 3     | 1.5 KW  | 1    | -    | Y   | MCC-1000     | 1.80   | 1.50           | 1.50          | 1.0          | 1.80          | 1.50         | 1.50        |            |
| PM-3505    | Hot Start Engine Circulating Oil Pump (Train 2)     | 480     | 3     | 3 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 3.52   | 2.93           | 2.63          | 1.0          | 3.52          | 2.93         | 2.63        |            |
| HE-3504    | Compressor Frame Oil Heater (Train 2)               | 480     | 3     | 2.5 KW  | 1    | -    | Y   | MCC-1000     | 3.01   | 2.50           | 2.50          | 1.0          | 3.01          | 2.50         | 2.50        |            |
| PM-3503    | Compressor Cylinder Oil Pump (Train 2)              | 480     | 3     | 1 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 1.17   | 0.98           | 0.88          | 0.8          | 0.94          | 0.78         | 0.70        |            |
| EM-3500A   | Discharge Cooler Fan #1 (Train 2)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-3500B   | Discharge Cooler Fan #2 (Train 2)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| CP-3600    | Engine/Compressor Control Panel #3                  | 480     | 3     | 1 KW    | 0.9  | -    | N   | MCC-1001     | 1.34   | 1.11           | 1.00          | 1.0          | 1.34          | 1.11         | 1.00        |            |
| HE-3602    | Hot Start Compressor Engine Oil Heater (Train 3)    | 480     | 3     | 9 KW    | 1    | -    | N   | MCC-1001     | 10.83  | 9.00           | 9.00          | 1.0          | 10.83         | 9.00         | 9.00        |            |
| PM-3605    | Hot Start Circulating Oil Pump (Train 3)            | 480     | 3     | 3 HP    | 0.9  | 0.85 | N   | MCC-1001     | 3.52   | 2.93           | 2.63          | 1.0          | 3.52          | 2.93         | 2.63        |            |
| HE-3604    | Compressor Frame Oil Heater (Train 3)               | 480     | 3     | 2.5 KW  | 1    | -    | N   | MCC-1001     | 3.01   | 2.50           | 2.50          | 1.0          | 3.01          | 2.50         | 2.50        |            |
| PM-3603    | Compressor Cylinder Oil Pump (Train 3)              | 480     | 3     | 1 HP    | 0.9  | 0.85 | N   | MCC-1001     | 1.17   | 0.98           | 0.88          | 0.8          | 0.94          | 0.78         | 0.70        |            |
| EM-3600A   | Discharge Cooler Fan #1 (Train 3)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | N   | MCC-1001     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-3600B   | Discharge Cooler Fan #2 (Train 3)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | N   | MCC-1001     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-360X    | Lube Oil Cooler Fan #1 (Train 3)                    | 480     | 3     | 2.5 HP  | 0.9  | 0.85 | N   | MCC-1001     | 2.93   | 2.44           | 2.19          | 0.8          | 2.35          | 1.95         | 1.76        |            |
| TBA        | Cylinder Lubricator Pump Motor (Train 3)            | 480     | 3     | 0.75 HP | 0.9  | 0.85 | N   | MCC-1001     | 0.88   | 0.73           | 0.66          | 0.8          | 0.70          | 0.59         | 0.53        |            |
| CP-3700    | Engine/Compressor Control Panel #4                  | 480     | 3     | 1 KW    | 0.9  | -    | N   | MCC-1001     | 1.34   | 1.11           | 1.00          | 1.0          | 1.34          | 1.11         | 1.00        |            |
| HE-3702    | Hot Start Compressor Engine Oil Heater (Train 4)    | 480     | 3     | 9 KW    | 1    | -    | N   | MCC-1001     | 10.83  | 9.00           | 9.00          | 1.0          | 10.83         | 9.00         | 9.00        |            |
| PM-3705    | Hot Start Engine Circulating Oil Pump (Train 4)     | 480     | 3     | 3 HP    | 0.9  | 0.85 | N   | MCC-1001     | 3.52   | 2.93           | 2.63          | 1.0          | 3.52          | 2.93         | 2.63        |            |
| HE-3704    | Compressor Frame Oil Heater (Train 4)               | 480     | 3     | 2.5 KW  | 1    | -    | N   | MCC-1001     | 3.01   | 2.50           | 2.50          | 1.0          | 3.01          | 2.50         | 2.50        |            |
| PM-3703    | Compressor Cylinder Oil Pump (Train 4)              | 480     | 3     | 1 HP    | 0.9  | 0.85 | N   | MCC-1001     | 1.17   | 0.98           | 0.88          | 0.8          | 0.94          | 0.78         | 0.70        |            |
| EM-3700A   | Discharge Cooler Fan #1 (Train 4)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | N   | MCC-1001     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-3700B   | Discharge Cooler Fan #2 (Train 4)                   | 480     | 3     | 25 HP   | 0.9  | 0.85 | N   | MCC-1001     | 29.32  | 24.38          | 21.94         | 0.8          | 23.46         | 19.50        | 17.55       |            |
| EM-370X    | Lube Oil Cooler Fan #1 (Train 4)                    | 480     | 3     | 2.5 HP  | 0.9  | 0.85 | N   | MCC-1001     | 2.93   | 2.44           | 2.19          | 0.8          | 2.35          | 1.95         | 1.76        |            |
| TBA        | Cylinder Lubricator Pump Motor (Train 4)            | 480     | 3     | 0.75 HP | 0.9  | 0.85 | N   | MCC-1001     | 0.88   | 0.73           | 0.66          | 0.8          | 0.70          | 0.59         | 0.53        |            |
| CM-4001A   | Instrument Air Compressor A                         | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.0          | 0.00          | 0.00         | 0.00        |            |
| CM-4001B   | Instrument Air Compressor B                         | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.0          | 0.00          | 0.00         | 0.00        |            |
| EM-4001    | Instrument Air Cooler / Oil Cooler Fan              | 480     | 3     | 2 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 2.35   | 1.95           | 1.76          | 0.8          | 1.88          | 1.56         | 1.40        |            |
| C-4003A    | Starting Air Compressor A                           | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.1          | 4.69          | 3.90         | 3.51        |            |
| C-4003B    | Starting Air Compressor B                           | 480     | 3     | 40 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 46.92  | 39.01          | 35.11         | 0.1          | 4.69          | 3.90         | 3.51        |            |
| D-4003A/B  | Starting Air Compressor - Dryer Booster             | 480     | 3     | 15 HP   | 0.9  | 0.85 | Y   | MCC-1001     | 17.59  | 14.63          | 13.16         | 0.1          | 1.76          | 1.46         | 1.32        |            |
| D-4001A/B  | Instrument Air Compressor - Dryer Booster           | 480     | 3     | 15 HP   | 0.9  | 0.85 | Y   | MCC-1001     | 17.59  | 14.63          | 13.16         | 0.1          | 1.76          | 1.46         | 1.32        |            |
| EM-4003    | Starting Air Cooler / Oil Cooler Fan                | 480     | 3     | 1 HP    | 0.9  | 0.85 | Y   | MCC-1001     | 1.17   | 0.98           | 0.88          | 0.1          | 0.12          | 0.10         | 0.09        |            |
| GEN-1000   | Generator Auxiliary Loads                           | 480     | 3     | 15 HP   | 0.9  | 0.85 | Y   | MCC-1000     | 17.59  | 14.63          | 13.16         | 0.8          | 14.08         | 11.70        | 10.53       |            |
| PM-4001    | Engine Oil Charge Pump                              | 480     | 3     | 3 HP    | 0.9  | 0.85 | Y   | MCC-1000     | 3.52   | 2.93           | 2.63          | 0.8          | 2.82          | 2.34         | 2.11        |            |
| M-1001     | Compressor Building Induced Fan #1                  | 480     | 3     | 2 HP    | 1    | 1    | Y   | MCC-1000     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1002     | Compressor Building Induced Fan #2                  | 480     | 3     | 2 HP    | 1    | 1    | Y   | MCC-1000     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1003     | Compressor Building Induced Fan #3                  | 480     | 3     | 2 HP    | 1    | 1    | Y   | MCC-1000     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1004     | Compressor Building Induced Fan #4                  | 480     | 3     | 2 HP    | 1    | 1    | Y   | MCC-1000     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1005     | Compressor Building Induced Fan #5                  | 480     | 3     | 2 HP    | 1    | 1    | N   | MCC-1001     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1006     | Compressor Building Induced Fan #6                  | 480     | 3     | 2 HP    | 1    | 1    | N   | MCC-1001     | 1.79   | 1.49           | 1.49          | 0.8          | 1.44          | 1.19         | 1.19        |            |
| M-1007     | Compressor Building Roll Up Door                    | 480     | 3     | 1 KW    | 1    | 1    | N   | MCC-1001     | 1.20   | 1.00           | 1.00          | 0.8          | 0.96          | 0.80         | 0.80        |            |
| CR-4001    | Compressor House EOT Crane                          | 480     | 3     | 23 HP   | 1    | 1    | N   | MCC-1001     | 20.64  | 17.16          | 17.16         | 0.8          | 16.51         | 13.73        | 13.73       |            |
| CR-4002    | Jib Crane   | 480     | 3     | 5 HP    | 0.9  | 0.85 | N   | MCC-1001     | 5.86   | 4.88           | 4.39          | 0.1          | 0.59          | 0.49         | 0.44        |            |
| TX-1001    | Outdoor Lighting Panel XFMR                         | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1000     | 36.08  | 30.00          | 25.50         | 0.5          | 18.04         | 15.00        | 12.75       |            |
| TX-1003    | Power Distribution Panel XFMR                       | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1001     | 36.08  | 30.00          | 25.50         | 0.5          | 18.04         | 15.00        | 12.75       |            |
| UPS-1000-1 | UPS   | 480     | 3     | 15 KW   | 0.9  | -    | Y   | MCC-1001     | 20.05  | 16.67          | 15.00         | 0.9          | 18.04         | 15.00        | 12.50       |            |
| UPS-1000-2 | UPS (Redundant Feed)                                | 480     | 3     | 15 KW   | 0.9  | -    | Y   | MCC-1000     | 20.05  | 16.67          | 15.00         | 0.0          | 0.00          | 0.00         | 0.00        |            |
| TX-1002    | Lighting/Receptacle XFMR #1                         | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1000     | 36.08  | 30.00          | 25.50         | 0.5          | 18.04         | 15.00        | 12.75       |            |
| TX-1004    | Lighting/Receptacle XFMR #2                         | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1001     | 36.08  | 30.00          | 25.50         | 0.1          | 3.61          | 3.00         | 2.55        |            |
| HVAC-1000  | PDC AC-1 (37 Tons)                                  | 480     | 3     | 37 A    | 0.9  | -    | Y   | MCC-1001     | 37.00  | 30.76          | 27.69         | 0.8          | 29.60         | 24.61        | 22.15       |            |
| HVAC-1001  | PDC AC-2 (37 Tons)                                  | 480     | 3     | 37 A    | 0.9  | -    | Y   | MCC-1000     | 37.00  | 30.76          | 27.69         | 0.0          | 0.00          | 0.00         | 0.00        |            |
| HVAC-1002  | PDC AC-3 (3 Tons)                                   | 480     | 3     | 12 A    | 0.9  | -    | Y   | MCC-1001     | 12.00  | 9.98           | 8.98          | 0.8          | 9.60          | 7.98         | 7.18        |            |
| HVAC-1003  | PDC AC-4 (5 Tons)                                   | 480     | 3     | 20 A    | 0.9  | -    | Y   | MCC-1000     | 20.00  | 16.63          | 14.96         | 0.8          | 16.00         | 13.30        | 11.97       |            |
| HVAC-1004  | PDC AC-5 (5 Tons)                                   | 480     | 3     | 20 A    | 0.9  | -    | Y   | MCC-1001     | 20.00  | 16.63          | 14.96         | 0.0          | 0.00          | 0.00         | 0.00        |            |
| WR-1000    | Welding Outlet #1                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1000     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| WR-1001    | Welding Outlet #2                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1000     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| WR-1002    | Welding Outlet #3                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1000     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| WR-1003    | Welding Outlet #4                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1001     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| WR-1004    | Welding Outlet #5                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1001     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| WR-1005    | Welding Outlet #6                                   | 480     | 3     | 50 HP   | 0.9  | 0.85 | N   | MCC-1001     | 58.65  | 48.76          | 43.88         | 0.1          | 5.86          | 4.88         | 4.39        |            |
| TBA        | CEMS Shelter (Train #1 & #2)                        | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1000     | 36.08  | 30.00          | 25.50         | 0.8          | 28.87         | 24.00        | 20.40       |            |
| BC-1000    | Battery Charger #1                                  | 480     | 3     | 10 A    | 0.9  | -    | Y   | MCC-1000     | 10.00  | 8.31           | 7.48          | 0.8          | 8.00          | 6.65         | 5.99        |            |
| BC-1001    | Battery Charger #2                                  | 480     | 3     | 10 A    | 0.9  | -    | Y   | MCC-1001     | 10.00  | 8.31           | 7.48          | 0.8          | 8.00          | 6.65         | 5.99        |            |
| TBA        | PDC-1001 Auxiliary Loads                            | 480     | 3     | 50 KW   | 0.85 | -    | Y   | MCC-1001     | 70.75  | 58.82          | 50.00         | 0.8          | 56.60         | 47.06        | 40.00       |            |
| TBA        | Antenna Building                                    | 480     | 3     | 30 KVA  | 0.85 | -    | Y   | MCC-1001     | 36.08  | 30.00          | 25.50         | 0.5          | 18.04         | 15.00        | 12.75       |            |
| TBA        | Office Building                                     | 480     | 3     | 142 KVA | 0.85 | -    | Y   | SG-1001      | 170.80 | 142.00         | 120.70        | 0.4          | 68.           |              |             |            |

