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## M E M O

**Date:** March 6, 2024

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**RE:** Elm Tree Station – Santa Rosa, CA

**SUBJECT:** GHG Emissions Modeling Job#23-007

This memo addresses Greenhouse Gas (GHG) emissions associated with the proposed Elm Street Station project located at 874 N. Wright Road in Santa Rosa, CA. Illingworth & Rodkin, Inc. prepared a health risk assessment for this Project in 2023<sup>1</sup>. The CalEEMod model was used to predict GHG emissions that are consistent with the traffic trip generation forecasts in the Elm Street Station TIS<sup>2</sup>.

CalEEMod was used to predict GHG emissions from operation of the site assuming full build-out of the project. The project land use types and size and other project-specific information were input to the model, as described below. The CalEEMod output is included in *Attachment 1*.

| Project Land Uses                 | Size | Units            | Square Feet | Acreage |
|-----------------------------------|------|------------------|-------------|---------|
| Convenience Market with Gas Pumps | 3.54 | 1000 square feet | 3,540       | 1.12    |
| Single Family Housing             | 1.00 | Dwelling Unit    | 806         |         |

The Project is considered a local-serving retail establishment that is not expected to add new trips to the region. However, GHG emissions from traffic associated with the Project were computed. The project uses are expected to generate 2,546 daily trips (2,536 customer trips and

<sup>1</sup> Illingworth & Rodkin, Inc. 2023. *Elm Street Station – Gas Station Health Risk Assessment*. February 27.

<sup>2</sup> W-Trans. 2024. Email regarding trip generation estimates and travel lengths for the Elm Street Station Project in the City of Santa Rosa. March 5.

10 on-site residence trips), but most, about 65 percent) are predicted as pass-by trips from vehicles already passing by or near the site. CalEEMod also considers 21 percent to be from diverted trips, which are from vehicles already on the roadway network that alter their trip slightly to use the facility. The CalEEMod default trip passby and diverted trip percentages were used in the modeling. W-Trans reports estimated travel trip lengths for this traffic zone at 5.67 miles per trip.

CalEEMod defaults for energy use were used, which include the latest 2019 Title 24 Building Standards. GHG emissions modeling includes those indirect emissions from electricity consumption. The model has a default rate of 39.46 pounds of CO<sub>2</sub> per megawatt of electricity produced, which is based on the model's default emission rate for Sonoma Clean Power.

Default model assumptions for emissions associated with solid waste generation and refrigerants use were used. Wastewater treatment was changed to 100 percent aerobic conditions to represent the use of city sewer services (i.e., project would not send wastewater to septic tanks or facultative lagoons).

#### Operational GHG Emissions

The CalEEMod model predictions for annual GHG emissions in carbon dioxide equivalent (CO<sub>2</sub>e) metric tons associated with operation of the fully developed site under the proposed project for the year 2025 (project operation) are presented below.

#### **Annual Project GHG Emissions (CO<sub>2</sub>e) in Metric Tons**

| <b>Source Category</b> | <b>Proposed Project in 2025</b> |
|------------------------|---------------------------------|
| Mobile                 | 537                             |
| Area                   | <1                              |
| Energy Consumption     | 9                               |
| Water Usage            | <1                              |
| Solid Waste Generation | 4                               |
| Refrigeration          | 122                             |
| Metric Ton Total       | 671                             |

# 23-007 Santa Rosa Gas Station GHG Detailed Report

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# 1. Basic Project Information

## 1.1. Basic Project Information

| Data Field                  | Value                                      |
|-----------------------------|--------------------------------------------|
| Project Name                | 23-007 Santa Rosa Gas Station GHG          |
| Construction Start Date     | 6/1/2023                                   |
| Operational Year            | 2024                                       |
| Lead Agency                 | —                                          |
| Land Use Scale              | Project/site                               |
| Analysis Level for Defaults | County                                     |
| Windspeed (m/s)             | 2.20                                       |
| Precipitation (days)        | 24.4                                       |
| Location                    | 874 N Wright Rd, Santa Rosa, CA 95407, USA |
| County                      | Sonoma-San Francisco                       |
| City                        | Santa Rosa                                 |
| Air District                | Bay Area AQMD                              |
| Air Basin                   | San Francisco Bay Area                     |
| TAZ                         | 954                                        |
| EDFZ                        | 2                                          |
| Electric Utility            | Sonoma Clean Power                         |
| Gas Utility                 | Pacific Gas & Electric                     |
| App Version                 | 2022.1.1.21                                |

## 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 |
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
|------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|

|                                   |      |               |      |       |      |      |      |   |
|-----------------------------------|------|---------------|------|-------|------|------|------|---|
| Convenience Market with Gas Pumps | 3.54 | 1000sqft      | 1.12 | 3,540 | 0.00 | 0.00 | —    | — |
| Single Family Housing             | 1.00 | Dwelling Unit | 0.00 | 806   | 0.00 | 0.00 | 3.00 | — |

1.3. User-Selected Emission Reduction Measures by Emissions Sector

| Sector       | #      | Measure Title                         |
|--------------|--------|---------------------------------------|
| Construction | C-5    | Use Advanced Engine Tiers             |
| Construction | C-10-A | Water Exposed Surfaces                |
| Construction | C-11   | Limit Vehicle Speeds on Unpaved Roads |

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  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e  |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|------|-------|
| Daily, Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| Unmit.              | 2.17 | 26.8 | 0.98  | 8.36  | 9.34  | 0.91   | 3.77   | 4.68   | 14.7 | 8,444 |
| Mit.                | 0.54 | 17.2 | 0.26  | 4.03  | 4.16  | 0.24   | 1.68   | 1.82   | 14.7 | 8,444 |
| % Reduced           | 75%  | 36%  | 74%   | 52%   | 55%   | 73%    | 55%    | 61%    | —    | —     |
| Daily, Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| Unmit.              | 4.97 | 18.0 | 0.47  | 1.73  | 2.05  | 0.44   | 0.48   | 0.79   | 0.38 | 8,423 |
| Mit.                | 4.85 | 17.1 | 0.26  | 1.73  | 1.87  | 0.24   | 0.48   | 0.61   | 0.38 | 8,423 |
| % Reduced           | 2%   | 5%   | 45%   | —     | 9%    | 44%    | —      | 22%    | —    | —     |
| Average Daily (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |

|              |      |      |      |      |      |      |      |      |      |       |
|--------------|------|------|------|------|------|------|------|------|------|-------|
| Unmit.       | 0.55 | 7.58 | 0.20 | 0.62 | 0.83 | 0.19 | 0.20 | 0.39 | 1.94 | 3,105 |
| Mit.         | 0.21 | 7.09 | 0.11 | 0.55 | 0.66 | 0.10 | 0.16 | 0.26 | 1.94 | 3,105 |
| % Reduced    | 63%  | 7%   | 48%  | 11%  | 20%  | 47%  | 17%  | 32%  | —    | —     |
| Annual (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —    | —     |
| Unmit.       | 0.10 | 1.38 | 0.04 | 0.11 | 0.15 | 0.03 | 0.04 | 0.07 | 0.32 | 514   |
| Mit.         | 0.04 | 1.29 | 0.02 | 0.10 | 0.12 | 0.02 | 0.03 | 0.05 | 0.32 | 514   |
| % Reduced    | 63%  | 7%   | 48%  | 11%  | 20%  | 47%  | 17%  | 32%  | —    | —     |

## 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  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e  |
|----------------------|------|------|-------|-------|-------|--------|--------|--------|------|-------|
| Daily - Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 2.17 | 26.8 | 0.98  | 8.36  | 9.34  | 0.91   | 3.77   | 4.68   | 10.8 | 8,195 |
| 2024                 | 0.71 | 14.8 | 0.31  | 1.73  | 2.04  | 0.29   | 0.48   | 0.77   | 14.7 | 8,444 |
| Daily - Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 1.29 | 18.0 | 0.47  | 1.25  | 1.72  | 0.44   | 0.35   | 0.79   | 0.28 | 7,447 |
| 2024                 | 4.97 | 17.3 | 0.43  | 1.73  | 2.05  | 0.40   | 0.48   | 0.77   | 0.38 | 8,423 |
| Average Daily        | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.55 | 7.58 | 0.20  | 0.62  | 0.83  | 0.19   | 0.20   | 0.39   | 1.94 | 3,105 |
| 2024                 | 0.33 | 2.93 | 0.07  | 0.23  | 0.30  | 0.07   | 0.06   | 0.13   | 0.85 | 1,303 |
| Annual               | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.10 | 1.38 | 0.04  | 0.11  | 0.15  | 0.03   | 0.04   | 0.07   | 0.32 | 514   |
| 2024                 | 0.06 | 0.53 | 0.01  | 0.04  | 0.05  | 0.01   | 0.01   | 0.02   | 0.14 | 216   |

## 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  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e  |
|----------------------|------|------|-------|-------|-------|--------|--------|--------|------|-------|
| Daily - Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.54 | 17.2 | 0.26  | 4.03  | 4.16  | 0.24   | 1.68   | 1.82   | 10.8 | 8,195 |
| 2024                 | 0.37 | 14.5 | 0.13  | 1.73  | 1.87  | 0.13   | 0.48   | 0.61   | 14.7 | 8,444 |
| Daily - Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.43 | 17.1 | 0.26  | 1.25  | 1.51  | 0.24   | 0.35   | 0.59   | 0.28 | 7,447 |
| 2024                 | 4.85 | 16.8 | 0.26  | 1.73  | 1.87  | 0.24   | 0.48   | 0.61   | 0.38 | 8,423 |
| Average Daily        | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.18 | 7.09 | 0.11  | 0.55  | 0.66  | 0.10   | 0.16   | 0.26   | 1.94 | 3,105 |
| 2024                 | 0.21 | 2.86 | 0.04  | 0.23  | 0.27  | 0.04   | 0.06   | 0.10   | 0.85 | 1,303 |
| Annual               | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| 2023                 | 0.03 | 1.29 | 0.02  | 0.10  | 0.12  | 0.02   | 0.03   | 0.05   | 0.32 | 514   |
| 2024                 | 0.04 | 0.52 | 0.01  | 0.04  | 0.05  | 0.01   | 0.01   | 0.02   | 0.14 | 216   |

## 2.4. Operations Emissions Compared Against Thresholds

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

| Un/Mit.             | ROG  | NOx  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R   | CO2e  |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|-----|-------|
| Daily, Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —   | —     |
| Unmit.              | 9.77 | 3.56 | 0.04  | 2.34  | 2.38  | 0.04   | 0.59   | 0.63   | 746 | 4,173 |
| Daily, Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —   | —     |
| Unmit.              | 9.05 | 4.14 | 0.04  | 2.34  | 2.38  | 0.04   | 0.59   | 0.63   | 734 | 4,047 |
| Average Daily (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —   | —     |
| Unmit.              | 8.99 | 3.90 | 0.04  | 2.30  | 2.34  | 0.04   | 0.59   | 0.62   | 739 | 4,055 |

|              |      |      |      |      |      |      |      |      |     |     |
|--------------|------|------|------|------|------|------|------|------|-----|-----|
| Annual (Max) | —    | —    | —    | —    | —    | —    | —    | —    | —   | —   |
| Unmit.       | 1.64 | 0.71 | 0.01 | 0.42 | 0.43 | 0.01 | 0.11 | 0.11 | 122 | 671 |

## 2.5. Operations Emissions by Sector, Unmitigated

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

| Sector              | ROG     | NOx     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e  |
|---------------------|---------|---------|---------|-------|---------|---------|--------|---------|------|-------|
| Daily, Summer (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     |
| Mobile              | 9.63    | 3.53    | 0.04    | 2.34  | 2.37    | 0.04    | 0.59   | 0.63    | 12.4 | 3,360 |
| Area                | 0.14    | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 0.79  |
| Energy              | < 0.005 | 0.03    | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 55.7  |
| Water               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 1.07  |
| Waste               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 21.3  |
| Refrig.             | —       | —       | —       | —     | —       | —       | —      | —       | 734  | 734   |
| Total               | 9.77    | 3.56    | 0.04    | 2.34  | 2.38    | 0.04    | 0.59   | 0.63    | 746  | 4,173 |
| Daily, Winter (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     |
| Mobile              | 8.94    | 4.11    | 0.04    | 2.34  | 2.37    | 0.04    | 0.59   | 0.63    | 0.32 | 3,235 |
| Area                | 0.11    | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | —    | 0.00  |
| Energy              | < 0.005 | 0.03    | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 55.7  |
| Water               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 1.07  |
| Waste               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 21.3  |
| Refrig.             | —       | —       | —       | —     | —       | —       | —      | —       | 734  | 734   |
| Total               | 9.05    | 4.14    | 0.04    | 2.34  | 2.38    | 0.04    | 0.59   | 0.63    | 734  | 4,047 |
| Average Daily       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     |
| Mobile              | 8.86    | 3.87    | 0.04    | 2.30  | 2.34    | 0.04    | 0.59   | 0.62    | 5.37 | 3,242 |
| Area                | 0.12    | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 0.39  |
| Energy              | < 0.005 | 0.03    | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 55.7  |

|         |         |         |         |      |         |         |      |         |      |       |
|---------|---------|---------|---------|------|---------|---------|------|---------|------|-------|
| Water   | —       | —       | —       | —    | —       | —       | —    | —       | —    | 1.07  |
| Waste   | —       | —       | —       | —    | —       | —       | —    | —       | —    | 21.3  |
| Refrig. | —       | —       | —       | —    | —       | —       | —    | —       | 734  | 734   |
| Total   | 8.99    | 3.90    | 0.04    | 2.30 | 2.34    | 0.04    | 0.59 | 0.62    | 739  | 4,055 |
| Annual  | —       | —       | —       | —    | —       | —       | —    | —       | —    | —     |
| Mobile  | 1.62    | 0.71    | 0.01    | 0.42 | 0.43    | 0.01    | 0.11 | 0.11    | 0.89 | 537   |
| Area    | 0.02    | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.06  |
| Energy  | < 0.005 | 0.01    | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 9.22  |
| Water   | —       | —       | —       | —    | —       | —       | —    | —       | —    | 0.18  |
| Waste   | —       | —       | —       | —    | —       | —       | —    | —       | —    | 3.52  |
| Refrig. | —       | —       | —       | —    | —       | —       | —    | —       | 122  | 122   |
| Total   | 1.64    | 0.71    | 0.01    | 0.42 | 0.43    | 0.01    | 0.11 | 0.11    | 122  | 671   |

## 2.6. Operations Emissions by Sector, Mitigated

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

| Sector              | ROG     | NOx     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e  |
|---------------------|---------|---------|---------|-------|---------|---------|--------|---------|------|-------|
| Daily, Summer (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     |
| Mobile              | 9.63    | 3.53    | 0.04    | 2.34  | 2.37    | 0.04    | 0.59   | 0.63    | 12.4 | 3,360 |
| Area                | 0.14    | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 0.79  |
| Energy              | < 0.005 | 0.03    | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 55.7  |
| Water               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 1.07  |
| Waste               | —       | —       | —       | —     | —       | —       | —      | —       | —    | 21.3  |
| Refrig.             | —       | —       | —       | —     | —       | —       | —      | —       | 734  | 734   |
| Total               | 9.77    | 3.56    | 0.04    | 2.34  | 2.38    | 0.04    | 0.59   | 0.63    | 746  | 4,173 |
| Daily, Winter (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —     |
| Mobile              | 8.94    | 4.11    | 0.04    | 2.34  | 2.37    | 0.04    | 0.59   | 0.63    | 0.32 | 3,235 |

|               |         |         |         |      |         |         |      |         |      |       |
|---------------|---------|---------|---------|------|---------|---------|------|---------|------|-------|
| Area          | 0.11    | 0.00    | 0.00    | —    | 0.00    | 0.00    | —    | 0.00    | —    | 0.00  |
| Energy        | < 0.005 | 0.03    | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 55.7  |
| Water         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 1.07  |
| Waste         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 21.3  |
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | 734  | 734   |
| Total         | 9.05    | 4.14    | 0.04    | 2.34 | 2.38    | 0.04    | 0.59 | 0.63    | 734  | 4,047 |
| Average Daily | —       | —       | —       | —    | —       | —       | —    | —       | —    | —     |
| Mobile        | 8.86    | 3.87    | 0.04    | 2.30 | 2.34    | 0.04    | 0.59 | 0.62    | 5.37 | 3,242 |
| Area          | 0.12    | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.39  |
| Energy        | < 0.005 | 0.03    | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 55.7  |
| Water         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 1.07  |
| Waste         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 21.3  |
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | 734  | 734   |
| Total         | 8.99    | 3.90    | 0.04    | 2.30 | 2.34    | 0.04    | 0.59 | 0.62    | 739  | 4,055 |
| Annual        | —       | —       | —       | —    | —       | —       | —    | —       | —    | —     |
| Mobile        | 1.62    | 0.71    | 0.01    | 0.42 | 0.43    | 0.01    | 0.11 | 0.11    | 0.89 | 537   |
| Area          | 0.02    | < 0.005 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 0.06  |
| Energy        | < 0.005 | 0.01    | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 9.22  |
| Water         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 0.18  |
| Waste         | —       | —       | —       | —    | —       | —       | —    | —       | —    | 3.52  |
| Refrig.       | —       | —       | —       | —    | —       | —       | —    | —       | 122  | 122   |
| Total         | 1.64    | 0.71    | 0.01    | 0.42 | 0.43    | 0.01    | 0.11 | 0.11    | 122  | 671   |

### 3. Construction Emissions Details

#### 3.1. Site Preparation (2023) - Unmitigated

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

| Location                    | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | R    | CO2e  |
|-----------------------------|---------|------|---------|-------|---------|---------|---------|---------|------|-------|
| Onsite                      | —       | —    | —       | —     | —       | —       | —       | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —       | —       | —    | —     |
| Off-Road Equipment          | 1.54    | 15.1 | 0.72    | —     | 0.72    | 0.66    | —       | 0.66    | —    | 2,070 |
| Dust From Material Movement | —       | —    | —       | 6.26  | 6.26    | —       | 3.00    | 3.00    | —    | —     |
| Onsite truck                | 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    | 0.08 | < 0.005 | —     | < 0.005 | < 0.005 | —       | < 0.005 | —    | 11.3  |
| Dust From Material Movement | —       | —    | —       | 0.03  | 0.03    | —       | 0.02    | 0.02    | —    | —     |
| Onsite truck                | 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 | 0.02 | < 0.005 | —     | < 0.005 | < 0.005 | —       | < 0.005 | —    | 1.88  |
| 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  |
| Offsite                     | —       | —    | —       | —     | —       | —       | —       | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —       | —       | —    | —     |
| Worker                      | 0.04    | 0.03 | 0.00    | 0.06  | 0.06    | 0.00    | 0.01    | 0.01    | 0.32 | 69.0  |
| Vendor                      | 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  |

|                     |         |         |      |         |         |      |         |         |         |      |
|---------------------|---------|---------|------|---------|---------|------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.35 |
| Vendor              | 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 |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Vendor              | 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 |

### 3.2. Site Preparation (2023) - Mitigated

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

| Location                    | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e  |
|-----------------------------|---------|------|---------|-------|---------|---------|--------|---------|------|-------|
| Onsite                      | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | 0.27    | 6.40 | 0.04    | —     | 0.04    | 0.04    | —      | 0.04    | —    | 2,070 |
| Dust From Material Movement | —       | —    | —       | 2.44  | 2.44    | —       | 1.17   | 1.17    | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Average Daily               | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.04 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 11.3  |

|                             |         |         |         |         |         |         |         |         |         |      |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Dust From Material Movement | —       | —       | —       | 0.01    | 0.01    | —       | 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 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Off-Road Equipment          | < 0.005 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 1.88 |
| 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 |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker                      | 0.04    | 0.03    | 0.00    | 0.06    | 0.06    | 0.00    | 0.01    | 0.01    | 0.32    | 69.0 |
| Vendor                      | 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 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker                      | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.35 |
| Vendor                      | 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 |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker                      | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.06 |
| Vendor                      | 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 |

### 3.3. Grading (2023) - Unmitigated

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

| Location                    | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e  |
|-----------------------------|---------|------|---------|-------|---------|---------|--------|---------|------|-------|
| Onsite                      | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | 1.78    | 17.5 | 0.83    | —     | 0.83    | 0.77    | —      | 0.77    | —    | 2,462 |
| Dust From Material Movement | —       | —    | —       | 7.10  | 7.10    | —       | 3.43   | 3.43    | —    | —     |
| Onsite truck                | 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    | 0.19 | 0.01    | —     | 0.01    | 0.01    | —      | 0.01    | —    | 27.0  |
| Dust From Material Movement | —       | —    | —       | 0.08  | 0.08    | —       | 0.04   | 0.04    | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00  |
| Annual                      | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.04 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 4.47  |
| Dust From Material Movement | —       | —    | —       | 0.01  | 0.01    | —       | 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  |
| Offsite                     | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Worker                      | 0.05    | 0.04 | 0.00    | 0.08  | 0.08    | 0.00    | 0.02   | 0.02    | 0.42 | 92.0  |
| Vendor                      | 0.00    | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00  |
| Hauling                     | 0.09    | 7.12 | 0.06    | 1.13  | 1.19    | 0.06    | 0.32   | 0.37    | 9.85 | 5,162 |

|                     |         |         |         |         |         |         |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | < 0.005 | 0.08    | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.05    | 56.5 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.16 |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 |
| Hauling             | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01    | 9.36 |

### 3.4. Grading (2023) - Mitigated

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

| Location                    | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e  |
|-----------------------------|---------|------|---------|-------|---------|---------|--------|---------|------|-------|
| Onsite                      | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Daily, Summer (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | 0.32    | 7.70 | 0.05    | —     | 0.05    | 0.05    | —      | 0.05    | —    | 2,462 |
| Dust From Material Movement | —       | —    | —       | 2.77  | 2.77    | —       | 1.34   | 1.34    | —    | —     |
| Onsite truck                | 0.00    | 0.00 | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max)         | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Average Daily               | —       | —    | —       | —     | —       | —       | —      | —       | —    | —     |
| Off-Road Equipment          | < 0.005 | 0.08 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 27.0  |

|                             |         |         |         |         |         |         |         |         |         |       |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Dust From Material Movement | —       | —       | —       | 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  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Off-Road Equipment          | < 0.005 | 0.02    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 4.47  |
| 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  |
| Offsite                     | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Daily, Summer (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker                      | 0.05    | 0.04    | 0.00    | 0.08    | 0.08    | 0.00    | 0.02    | 0.02    | 0.42    | 92.0  |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                     | 0.09    | 7.12    | 0.06    | 1.13    | 1.19    | 0.06    | 0.32    | 0.37    | 9.85    | 5,162 |
| Daily, Winter (Max)         | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Average Daily               | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.95  |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                     | < 0.005 | 0.08    | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.05    | 56.5  |
| Annual                      | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker                      | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.16  |
| Vendor                      | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling                     | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01    | 9.36  |

### 3.5. Building Construction (2023) - Unmitigated

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

| Location            | ROG     | NOx  | PM10E   | PM10D   | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | R       | CO2e  |
|---------------------|---------|------|---------|---------|-------|---------|---------|---------|---------|-------|
| Onsite              | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 1.19    | 9.81 | 0.41    | —       | 0.41  | 0.38    | —       | 0.38    | —       | 1,807 |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Daily, Winter (Max) | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 1.19    | 9.81 | 0.41    | —       | 0.41  | 0.38    | —       | 0.38    | —       | 1,807 |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Average Daily       | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 0.48    | 3.95 | 0.17    | —       | 0.17  | 0.15    | —       | 0.15    | —       | 729   |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual              | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 0.09    | 0.72 | 0.03    | —       | 0.03  | 0.03    | —       | 0.03    | —       | 121   |
| Onsite truck        | 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 | 0.00    | 0.01    | 0.01  | 0.00    | < 0.005 | < 0.005 | 0.06    | 13.7  |
| Vendor              | < 0.005 | 0.03 | < 0.005 | < 0.005 | 0.01  | < 0.005 | < 0.005 | < 0.005 | 0.05    | 20.5  |
| Hauling             | 0.10    | 7.75 | 0.06    | 1.23    | 1.29  | 0.06    | 0.35    | 0.41    | 10.7    | 5,616 |
| Daily, Winter (Max) | —       | —    | —       | —       | —     | —       | —       | —       | —       | —     |
| Worker              | 0.01    | 0.01 | 0.00    | 0.01    | 0.01  | 0.00    | < 0.005 | < 0.005 | < 0.005 | 12.8  |
| Vendor              | < 0.005 | 0.03 | < 0.005 | < 0.005 | 0.01  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 20.5  |

|               |         |         |         |         |         |         |         |         |         |       |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Hauling       | 0.09    | 8.13    | 0.06    | 1.23    | 1.29    | 0.06    | 0.35    | 0.41    | 0.28    | 5,606 |
| Average Daily | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker        | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.01    | 5.19  |
| Vendor        | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01    | 8.26  |
| Hauling       | 0.04    | 3.24    | 0.02    | 0.49    | 0.51    | 0.02    | 0.14    | 0.16    | 1.87    | 2,262 |
| Annual        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker        | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.86  |
| Vendor        | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 1.37  |
| Hauling       | 0.01    | 0.59    | < 0.005 | 0.09    | 0.09    | < 0.005 | 0.03    | 0.03    | 0.31    | 374   |

### 3.6. Building Construction (2023) - Mitigated

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

| Location            | ROG  | NOx  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e  |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|------|-------|
| Onsite              | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| Daily, Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —     |
| Off-Road Equipment  | 0.33 | 8.95 | 0.20  | —     | 0.20  | 0.18   | —      | 0.18   | —    | 1,807 |
| Onsite truck        | 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  | 0.33 | 8.95 | 0.20  | —     | 0.20  | 0.18   | —      | 0.18   | —    | 1,807 |
| Onsite truck        | 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 | 3.61 | 0.08  | —     | 0.08  | 0.07   | —      | 0.07   | —    | 729   |
| Onsite truck        | 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    | 0.66    | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | —       | 121   |
| Onsite truck        | 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    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | 0.06    | 13.7  |
| Vendor              | < 0.005 | 0.03    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.05    | 20.5  |
| Hauling             | 0.10    | 7.75    | 0.06    | 1.23    | 1.29    | 0.06    | 0.35    | 0.41    | 10.7    | 5,616 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | 0.01    | 0.01    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | < 0.005 | 12.8  |
| Vendor              | < 0.005 | 0.03    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 20.5  |
| Hauling             | 0.09    | 8.13    | 0.06    | 1.23    | 1.29    | 0.06    | 0.35    | 0.41    | 0.28    | 5,606 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.01    | 5.19  |
| Vendor              | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01    | 8.26  |
| Hauling             | 0.04    | 3.24    | 0.02    | 0.49    | 0.51    | 0.02    | 0.14    | 0.16    | 1.87    | 2,262 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.86  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 1.37  |
| Hauling             | 0.01    | 0.59    | < 0.005 | 0.09    | 0.09    | < 0.005 | 0.03    | 0.03    | 0.31    | 374   |

### 3.7. Building Construction (2024) - Unmitigated

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

| Location            | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Onsite              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

|                     |         |         |         |         |         |         |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 1.13    | 9.44    | 0.37    | —       | 0.37    | 0.34    | —       | 0.34    | —       | 1,807 |
| Onsite truck        | 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  | 0.16    | 1.37    | 0.05    | —       | 0.05    | 0.05    | —       | 0.05    | —       | 262   |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 0.03    | 0.25    | 0.01    | —       | 0.01    | 0.01    | —       | 0.01    | —       | 43.3  |
| Onsite truck        | 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              | 0.01    | 0.01    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | < 0.005 | 12.5  |
| Vendor              | < 0.005 | 0.03    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 20.2  |
| Hauling             | 0.09    | 7.82    | 0.06    | 1.23    | 1.29    | 0.06    | 0.35    | 0.41    | 0.28    | 5,533 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 1.83  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 2.93  |
| Hauling             | 0.01    | 1.12    | 0.01    | 0.18    | 0.18    | 0.01    | 0.05    | 0.06    | 0.67    | 802   |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.30  |
| Vendor              | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.49  |
| Hauling             | < 0.005 | 0.20    | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | 0.11    | 133   |

### 3.8. Building Construction (2024) - Mitigated

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

| Location            | ROG     | NOx     | PM10E   | PM10D   | PM10T   | PM2.5E  | PM2.5D  | PM2.5T  | R       | CO2e  |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Onsite              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Off-Road Equipment  | 0.33    | 8.95    | 0.20    | —       | 0.20    | 0.18    | —       | 0.18    | —       | 1,807 |
| Onsite truck        | 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  | 0.05    | 1.30    | 0.03    | —       | 0.03    | 0.03    | —       | 0.03    | —       | 262   |
| Onsite truck        | 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    | 0.24    | 0.01    | —       | 0.01    | < 0.005 | —       | < 0.005 | —       | 43.3  |
| Onsite truck        | 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              | 0.01    | 0.01    | 0.00    | 0.01    | 0.01    | 0.00    | < 0.005 | < 0.005 | < 0.005 | 12.5  |
| Vendor              | < 0.005 | 0.03    | < 0.005 | < 0.005 | 0.01    | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 20.2  |
| Hauling             | 0.09    | 7.82    | 0.06    | 1.23    | 1.29    | 0.06    | 0.35    | 0.41    | 0.28    | 5,533 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 1.83  |

|         |         |         |         |         |         |         |         |         |         |      |
|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 2.93 |
| Hauling | 0.01    | 1.12    | 0.01    | 0.18    | 0.18    | 0.01    | 0.05    | 0.06    | 0.67    | 802  |
| Annual  | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.30 |
| Vendor  | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.49 |
| Hauling | < 0.005 | 0.20    | < 0.005 | 0.03    | 0.03    | < 0.005 | 0.01    | 0.01    | 0.11    | 133  |

### 3.9. Paving (2024) - Unmitigated

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

| Location            | ROG  | NOx  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|------|------|
| Onsite              | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Daily, Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Off-Road Equipment  | 0.53 | 4.90 | 0.23  | —     | 0.23  | 0.21   | —      | 0.21   | —    | 995  |
| Paving              | 0.00 | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Onsite truck        | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00 | 0.00 |
| Daily, Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Off-Road Equipment  | 0.53 | 4.90 | 0.23  | —     | 0.23  | 0.21   | —      | 0.21   | —    | 995  |
| Paving              | 0.00 | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Onsite truck        | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00 | 0.00 |
| Average Daily       | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Off-Road Equipment  | 0.01 | 0.13 | 0.01  | —     | 0.01  | 0.01   | —      | 0.01   | —    | 27.3 |
| Paving              | 0.00 | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Onsite truck        | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00 | 0.00 |
| Annual              | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |

|                     |         |         |         |         |         |         |         |         |         |       |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Off-Road Equipment  | < 0.005 | 0.02    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 4.51  |
| Paving              | 0.00    | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | 0.06    | 0.04    | 0.00    | 0.10    | 0.10    | 0.00    | 0.02    | 0.02    | 0.49    | 113   |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | 0.13    | 9.84    | 0.08    | 1.63    | 1.71    | 0.08    | 0.46    | 0.54    | 14.2    | 7,336 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | 0.05    | 0.05    | 0.00    | 0.10    | 0.10    | 0.00    | 0.02    | 0.02    | 0.01    | 105   |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | 0.12    | 10.4    | 0.08    | 1.63    | 1.71    | 0.08    | 0.46    | 0.54    | 0.37    | 7,323 |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.01    | 2.90  |
| Vendor              | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling             | < 0.005 | 0.28    | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.01    | 0.17    | 201   |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 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  |
| Hauling             | < 0.005 | 0.05    | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.03    | 33.2  |

### 3.10. Paving (2024) - Mitigated

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

| Location | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|----------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Onsite   | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

|                     |         |      |         |      |         |         |      |         |      |       |
|---------------------|---------|------|---------|------|---------|---------|------|---------|------|-------|
| Daily, Summer (Max) | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Off-Road Equipment  | 0.19    | 4.63 | 0.06    | —    | 0.06    | 0.05    | —    | 0.05    | —    | 995   |
| Paving              | 0.00    | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00  |
| Daily, Winter (Max) | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Off-Road Equipment  | 0.19    | 4.63 | 0.06    | —    | 0.06    | 0.05    | —    | 0.05    | —    | 995   |
| Paving              | 0.00    | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00  |
| Average Daily       | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Off-Road Equipment  | 0.01    | 0.13 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 27.3  |
| Paving              | 0.00    | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00  |
| Annual              | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Off-Road Equipment  | < 0.005 | 0.02 | < 0.005 | —    | < 0.005 | < 0.005 | —    | < 0.005 | —    | 4.51  |
| Paving              | 0.00    | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Onsite truck        | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00  |
| Offsite             | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Daily, Summer (Max) | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |
| Worker              | 0.06    | 0.04 | 0.00    | 0.10 | 0.10    | 0.00    | 0.02 | 0.02    | 0.49 | 113   |
| Vendor              | 0.00    | 0.00 | 0.00    | 0.00 | 0.00    | 0.00    | 0.00 | 0.00    | 0.00 | 0.00  |
| Hauling             | 0.13    | 9.84 | 0.08    | 1.63 | 1.71    | 0.08    | 0.46 | 0.54    | 14.2 | 7,336 |
| Daily, Winter (Max) | —       | —    | —       | —    | —       | —       | —    | —       | —    | —     |

|               |         |         |         |         |         |         |         |         |         |       |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Worker        | 0.05    | 0.05    | 0.00    | 0.10    | 0.10    | 0.00    | 0.02    | 0.02    | 0.01    | 105   |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling       | 0.12    | 10.4    | 0.08    | 1.63    | 1.71    | 0.08    | 0.46    | 0.54    | 0.37    | 7,323 |
| Average Daily | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker        | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.01    | 2.90  |
| Vendor        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00  |
| Hauling       | < 0.005 | 0.28    | < 0.005 | 0.04    | 0.05    | < 0.005 | 0.01    | 0.01    | 0.17    | 201   |
| Annual        | —       | —       | —       | —       | —       | —       | —       | —       | —       | —     |
| Worker        | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 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  |
| Hauling       | < 0.005 | 0.05    | < 0.005 | 0.01    | 0.01    | < 0.005 | < 0.005 | < 0.005 | 0.03    | 33.2  |

### 3.11. Architectural Coating (2024) - Unmitigated

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

| Location               | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e |
|------------------------|---------|------|---------|-------|---------|---------|--------|---------|------|------|
| Onsite                 | —       | —    | —       | —     | —       | —       | —      | —       | —    | —    |
| Daily, Summer (Max)    | —       | —    | —       | —     | —       | —       | —      | —       | —    | —    |
| Daily, Winter (Max)    | —       | —    | —       | —     | —       | —       | —      | —       | —    | —    |
| Off-Road Equipment     | 0.14    | 0.91 | 0.03    | —     | 0.03    | 0.03    | —      | 0.03    | —    | 134  |
| Architectural Coatings | 4.83    | —    | —       | —     | —       | —       | —      | —       | —    | —    |
| Onsite truck           | 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 | 0.02 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 3.67 |

|                        |         |         |         |         |         |         |         |         |         |      |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Architectural Coatings | 0.13    | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Onsite truck           | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual                 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Off-Road Equipment     | < 0.005 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 0.61 |
| Architectural Coatings | 0.02    | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Onsite truck           | 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                 | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 2.51 |
| Vendor                 | 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 |
| Average Daily          | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Vendor                 | 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 |
| Annual                 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker                 | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.01 |
| Vendor                 | 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 |

### 3.12. Architectural Coating (2024) - Mitigated

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

| Location | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|----------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
|----------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|

|                        |         |         |         |         |         |         |         |         |         |      |
|------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Onsite                 | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Daily, Summer (Max)    | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Daily, Winter (Max)    | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Off-Road Equipment     | 0.02    | 1.07    | 0.03    | —       | 0.03    | 0.03    | —       | 0.03    | —       | 134  |
| Architectural Coatings | 4.83    | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Onsite truck           | 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 | 0.03    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 3.67 |
| Architectural Coatings | 0.13    | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Onsite truck           | 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 | 0.01    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 0.61 |
| Architectural Coatings | 0.02    | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Onsite truck           | 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                 | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 2.51 |
| Vendor                 | 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 |
| Average Daily          | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |

|         |         |         |      |         |         |      |         |         |         |      |
|---------|---------|---------|------|---------|---------|------|---------|---------|---------|------|
| Worker  | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.07 |
| Vendor  | 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 |
| Annual  | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker  | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.01 |
| Vendor  | 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 |

### 3.13. Trenching (2023) - Unmitigated

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

| Location            | ROG     | NOx     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R    | CO2e |
|---------------------|---------|---------|---------|-------|---------|---------|--------|---------|------|------|
| Onsite              | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |
| Daily, Summer (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |
| Off-Road Equipment  | 0.23    | 2.14    | 0.09    | —     | 0.09    | 0.09    | —      | 0.09    | —    | 433  |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00 |
| Daily, Winter (Max) | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |
| Average Daily       | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |
| Off-Road Equipment  | < 0.005 | 0.02    | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 4.75 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00 |
| Annual              | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | —    | 0.79 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    | 0.00    | 0.00   | 0.00    | 0.00 | 0.00 |
| Offsite             | —       | —       | —       | —     | —       | —       | —      | —       | —    | —    |

|                     |         |         |      |         |         |      |         |         |         |      |
|---------------------|---------|---------|------|---------|---------|------|---------|---------|---------|------|
| Daily, Summer (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker              | 0.02    | 0.02    | 0.00 | 0.04    | 0.04    | 0.00 | 0.01    | 0.01    | 0.21    | 46.0 |
| Vendor              | 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 |
| Daily, Winter (Max) | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Average Daily       | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Vendor              | 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 |
| Annual              | —       | —       | —    | —       | —       | —    | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | < 0.005 | 0.08 |
| Vendor              | 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 |

### 3.14. Trenching (2023) - Mitigated

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

| Location            | ROG  | NOx  | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e |
|---------------------|------|------|-------|-------|-------|--------|--------|--------|------|------|
| Onsite              | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Daily, Summer (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Off-Road Equipment  | 0.07 | 2.28 | 0.04  | —     | 0.04  | 0.03   | —      | 0.03   | —    | 433  |
| Onsite truck        | 0.00 | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00 | 0.00 |
| Daily, Winter (Max) | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |
| Average Daily       | —    | —    | —     | —     | —     | —      | —      | —      | —    | —    |

|                     |         |         |         |         |         |         |         |         |         |      |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|
| Off-Road Equipment  | < 0.005 | 0.02    | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 4.75 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Off-Road Equipment  | < 0.005 | < 0.005 | < 0.005 | —       | < 0.005 | < 0.005 | —       | < 0.005 | —       | 0.79 |
| Onsite truck        | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00    | 0.00 |
| Offsite             | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Daily, Summer (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker              | 0.02    | 0.02    | 0.00    | 0.04    | 0.04    | 0.00    | 0.01    | 0.01    | 0.21    | 46.0 |
| Vendor              | 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 |
| Daily, Winter (Max) | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Average Daily       | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.47 |
| Vendor              | 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 |
| Annual              | —       | —       | —       | —       | —       | —       | —       | —       | —       | —    |
| Worker              | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | 0.00    | < 0.005 | < 0.005 | < 0.005 | 0.08 |
| Vendor              | 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 |

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

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

| Land Use                          | ROG  | NOx  | PM10E   | PM10D | PM10T | PM2.5E  | PM2.5D  | PM2.5T  | R    | CO2e  |
|-----------------------------------|------|------|---------|-------|-------|---------|---------|---------|------|-------|
| Daily, Summer (Max)               | —    | —    | —       | —     | —     | —       | —       | —       | —    | —     |
| Convenience Market with Gas Pumps | 9.59 | 3.50 | 0.04    | 2.30  | 2.33  | 0.03    | 0.59    | 0.62    | 12.2 | 3,311 |
| Single Family Housing             | 0.04 | 0.03 | < 0.005 | 0.04  | 0.04  | < 0.005 | 0.01    | 0.01    | 0.21 | 49.2  |
| Total                             | 9.63 | 3.53 | 0.04    | 2.34  | 2.37  | 0.04    | 0.59    | 0.63    | 12.4 | 3,360 |
| Daily, Winter (Max)               | —    | —    | —       | —     | —     | —       | —       | —       | —    | —     |
| Convenience Market with Gas Pumps | 8.90 | 4.07 | 0.04    | 2.30  | 2.33  | 0.03    | 0.59    | 0.62    | 0.32 | 3,189 |
| Single Family Housing             | 0.04 | 0.04 | < 0.005 | 0.04  | 0.04  | < 0.005 | 0.01    | 0.01    | 0.01 | 46.8  |
| Total                             | 8.94 | 4.11 | 0.04    | 2.34  | 2.37  | 0.04    | 0.59    | 0.63    | 0.32 | 3,235 |
| Annual                            | —    | —    | —       | —     | —     | —       | —       | —       | —    | —     |
| Convenience Market with Gas Pumps | 1.61 | 0.70 | 0.01    | 0.41  | 0.42  | 0.01    | 0.11    | 0.11    | 0.87 | 529   |
| Single Family Housing             | 0.01 | 0.01 | < 0.005 | 0.01  | 0.01  | < 0.005 | < 0.005 | < 0.005 | 0.01 | 7.61  |
| Total                             | 1.62 | 0.71 | 0.01    | 0.42  | 0.43  | 0.01    | 0.11    | 0.11    | 0.89 | 537   |

## 4.1.2. Mitigated

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

| Land Use            | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

|                                   |      |      |         |      |      |         |         |         |      |       |
|-----------------------------------|------|------|---------|------|------|---------|---------|---------|------|-------|
| Convenience Market with Gas Pumps | 9.59 | 3.50 | 0.04    | 2.30 | 2.33 | 0.03    | 0.59    | 0.62    | 12.2 | 3,311 |
| Single Family Housing             | 0.04 | 0.03 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | 0.21 | 49.2  |
| Total                             | 9.63 | 3.53 | 0.04    | 2.34 | 2.37 | 0.04    | 0.59    | 0.63    | 12.4 | 3,360 |
| Daily, Winter (Max)               | —    | —    | —       | —    | —    | —       | —       | —       | —    | —     |
| Convenience Market with Gas Pumps | 8.90 | 4.07 | 0.04    | 2.30 | 2.33 | 0.03    | 0.59    | 0.62    | 0.32 | 3,189 |
| Single Family Housing             | 0.04 | 0.04 | < 0.005 | 0.04 | 0.04 | < 0.005 | 0.01    | 0.01    | 0.01 | 46.8  |
| Total                             | 8.94 | 4.11 | 0.04    | 2.34 | 2.37 | 0.04    | 0.59    | 0.63    | 0.32 | 3,235 |
| Annual                            | —    | —    | —       | —    | —    | —       | —       | —       | —    | —     |
| Convenience Market with Gas Pumps | 1.61 | 0.70 | 0.01    | 0.41 | 0.42 | 0.01    | 0.11    | 0.11    | 0.87 | 529   |
| Single Family Housing             | 0.01 | 0.01 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 7.61  |
| Total                             | 1.62 | 0.71 | 0.01    | 0.42 | 0.43 | 0.01    | 0.11    | 0.11    | 0.89 | 537   |

## 4.2. Energy

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

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.7 |

|                                   |   |   |   |   |   |   |   |   |   |      |
|-----------------------------------|---|---|---|---|---|---|---|---|---|------|
| Single Family Housing             | — | — | — | — | — | — | — | — | — | 2.06 |
| Total                             | — | — | — | — | — | — | — | — | — | 22.7 |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | — | —    |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | — | 20.7 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | 2.06 |
| Total                             | — | — | — | — | — | — | — | — | — | 22.7 |
| Annual                            | — | — | — | — | — | — | — | — | — | —    |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | — | 3.42 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | 0.34 |
| Total                             | — | — | — | — | — | — | — | — | — | 3.76 |

#### 4.2.2. Electricity Emissions By Land Use - Mitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.7 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 2.06 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 22.7 |
| Daily, Winter (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

|                                   |   |   |   |   |   |   |   |   |   |      |
|-----------------------------------|---|---|---|---|---|---|---|---|---|------|
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | — | 20.7 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | 2.06 |
| Total                             | — | — | — | — | — | — | — | — | — | 22.7 |
| Annual                            | — | — | — | — | — | — | — | — | — | —    |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | — | 3.42 |
| Single Family Housing             | — | — | — | — | — | — | — | — | — | 0.34 |
| Total                             | — | — | — | — | — | — | — | — | — | 3.76 |

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

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

| Land Use                          | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R | CO2e |
|-----------------------------------|---------|------|---------|-------|---------|---------|--------|---------|---|------|
| Daily, Summer (Max)               | —       | —    | —       | —     | —       | —       | —      | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Single Family Housing             | 0.00    | 0.00 | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Total                             | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Daily, Winter (Max)               | —       | —    | —       | —     | —       | —       | —      | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Single Family Housing             | 0.00    | 0.00 | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |

|                                   |         |      |         |   |         |         |   |         |   |      |
|-----------------------------------|---------|------|---------|---|---------|---------|---|---------|---|------|
| Total                             | < 0.005 | 0.03 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 33.0 |
| Annual                            | —       | —    | —       | — | —       | —       | — | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.01 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.46 |
| Single Family Housing             | 0.00    | 0.00 | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 |
| Total                             | < 0.005 | 0.01 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.46 |

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

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

| Land Use                          | ROG     | NOx  | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R | CO2e |
|-----------------------------------|---------|------|---------|-------|---------|---------|--------|---------|---|------|
| Daily, Summer (Max)               | —       | —    | —       | —     | —       | —       | —      | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Single Family Housing             | 0.00    | 0.00 | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Total                             | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Daily, Winter (Max)               | —       | —    | —       | —     | —       | —       | —      | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Single Family Housing             | 0.00    | 0.00 | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Total                             | < 0.005 | 0.03 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 33.0 |
| Annual                            | —       | —    | —       | —     | —       | —       | —      | —       | — | —    |
| Convenience Market with Gas Pumps | < 0.005 | 0.01 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 5.46 |

|                       |         |      |         |   |         |         |   |         |   |      |
|-----------------------|---------|------|---------|---|---------|---------|---|---------|---|------|
| Single Family Housing | 0.00    | 0.00 | 0.00    | — | 0.00    | 0.00    | — | 0.00    | — | 0.00 |
| Total                 | < 0.005 | 0.01 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 5.46 |

## 4.3. Area Emissions by Source

### 4.3.1. Unmitigated

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

| Source                 | ROG  | NOx     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R | CO2e |
|------------------------|------|---------|---------|-------|---------|---------|--------|---------|---|------|
| Daily, Summer (Max)    | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.09 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Architectural Coatings | 0.01 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Landscape Equipment    | 0.03 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 0.79 |
| Total                  | 0.14 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 0.79 |
| Daily, Winter (Max)    | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.09 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Architectural Coatings | 0.01 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Total                  | 0.11 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Annual                 | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.02 | —       | —       | —     | —       | —       | —      | —       | — | —    |

|                        |         |         |         |   |         |         |   |         |   |      |
|------------------------|---------|---------|---------|---|---------|---------|---|---------|---|------|
| Architectural Coatings | < 0.005 | —       | —       | — | —       | —       | — | —       | — | —    |
| Landscape Equipment    | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.06 |
| Total                  | 0.02    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.06 |

#### 4.3.2. Mitigated

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

| Source                 | ROG  | NOx     | PM10E   | PM10D | PM10T   | PM2.5E  | PM2.5D | PM2.5T  | R | CO2e |
|------------------------|------|---------|---------|-------|---------|---------|--------|---------|---|------|
| Daily, Summer (Max)    | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.09 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Architectural Coatings | 0.01 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Landscape Equipment    | 0.03 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 0.79 |
| Total                  | 0.14 | < 0.005 | < 0.005 | —     | < 0.005 | < 0.005 | —      | < 0.005 | — | 0.79 |
| Daily, Winter (Max)    | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.09 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Architectural Coatings | 0.01 | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Total                  | 0.11 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Annual                 | —    | —       | —       | —     | —       | —       | —      | —       | — | —    |
| Hearths                | 0.00 | 0.00    | 0.00    | —     | 0.00    | 0.00    | —      | 0.00    | — | 0.00 |
| Consumer Products      | 0.02 | —       | —       | —     | —       | —       | —      | —       | — | —    |

|                        |         |         |         |   |         |         |   |         |   |      |
|------------------------|---------|---------|---------|---|---------|---------|---|---------|---|------|
| Architectural Coatings | < 0.005 | —       | —       | — | —       | —       | — | —       | — | —    |
| Landscape Equipment    | < 0.005 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.06 |
| Total                  | 0.02    | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 0.06 |

## 4.4. Water Emissions by Land Use

### 4.4.1. Unmitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.94 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.14 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.07 |
| Daily, Winter (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.94 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.14 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.07 |
| Annual                            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.16 |

|                       |   |   |   |   |   |   |   |   |   |      |
|-----------------------|---|---|---|---|---|---|---|---|---|------|
| Single Family Housing | — | — | — | — | — | — | — | — | — | 0.02 |
| Total                 | — | — | — | — | — | — | — | — | — | 0.18 |

#### 4.4.2. Mitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.94 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.14 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.07 |
| Daily, Winter (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.94 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.14 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.07 |
| Annual                            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.16 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.02 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.18 |

4.5. Waste Emissions by Land Use

4.5.1. Unmitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.1 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.19 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 21.3 |
| Daily, Winter (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.1 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.19 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 21.3 |
| Annual                            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 3.32 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.20 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 3.52 |

4.5.2. Mitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.1 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.19 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 21.3 |
| Daily, Winter (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 20.1 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 1.19 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 21.3 |
| Annual                            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | — | 3.32 |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | — | 0.20 |
| Total                             | —   | —   | —     | —     | —     | —      | —      | —      | — | 3.52 |

## 4.6. Refrigerant Emissions by Land Use

### 4.6.1. Unmitigated

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

| Land Use            | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

|                                   |   |   |   |   |   |   |   |   |         |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---------|---------|
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | 734     | 734     |
| Single Family Housing             | — | — | — | — | — | — | — | — | 0.01    | 0.01    |
| Total                             | — | — | — | — | — | — | — | — | 734     | 734     |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | —       | —       |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | 734     | 734     |
| Single Family Housing             | — | — | — | — | — | — | — | — | 0.01    | 0.01    |
| Total                             | — | — | — | — | — | — | — | — | 734     | 734     |
| Annual                            | — | — | — | — | — | — | — | — | —       | —       |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | 122     | 122     |
| Single Family Housing             | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |
| Total                             | — | — | — | — | — | — | — | — | 122     | 122     |

#### 4.6.2. Mitigated

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

| Land Use                          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R    | CO2e |
|-----------------------------------|-----|-----|-------|-------|-------|--------|--------|--------|------|------|
| Daily, Summer (Max)               | —   | —   | —     | —     | —     | —      | —      | —      | —    | —    |
| Convenience Market with Gas Pumps | —   | —   | —     | —     | —     | —      | —      | —      | 734  | 734  |
| Single Family Housing             | —   | —   | —     | —     | —     | —      | —      | —      | 0.01 | 0.01 |

|                                   |   |   |   |   |   |   |   |   |         |         |
|-----------------------------------|---|---|---|---|---|---|---|---|---------|---------|
| Total                             | — | — | — | — | — | — | — | — | 734     | 734     |
| Daily, Winter (Max)               | — | — | — | — | — | — | — | — | —       | —       |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | 734     | 734     |
| Single Family Housing             | — | — | — | — | — | — | — | — | 0.01    | 0.01    |
| Total                             | — | — | — | — | — | — | — | — | 734     | 734     |
| Annual                            | — | — | — | — | — | — | — | — | —       | —       |
| Convenience Market with Gas Pumps | — | — | — | — | — | — | — | — | 122     | 122     |
| Single Family Housing             | — | — | — | — | — | — | — | — | < 0.005 | < 0.005 |
| Total                             | — | — | — | — | — | — | — | — | 122     | 122     |

## 4.7. Offroad Emissions By Equipment Type

### 4.7.1. Unmitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

4.7.2. Mitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

4.8.2. Mitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

## 4.9. User Defined Emissions By Equipment Type

### 4.9.1. Unmitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Total               | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

### 4.9.2. Mitigated

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

| Equipment Type      | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

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

## 4.10. Soil Carbon Accumulation By Vegetation Type

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

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

| Vegetation          | ROG | NOx | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | 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 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | R | CO2e |
|---------------------|-----|-----|-------|-------|-------|--------|--------|--------|---|------|
| Daily, Summer (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Avoided             | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Sequestered         | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Removed             | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| —                   | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Daily, Winter (Max) | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Avoided             | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Sequestered         | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Removed             | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| —                   | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Annual              | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Avoided             | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Sequestered         | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |
| Subtotal            | —   | —   | —     | —     | —     | —      | —      | —      | — | —    |

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

5. Activity Data

5.1. Construction Schedule

| Phase Name            | Phase Type            | Start Date | End Date  | Days Per Week | Work Days per Phase | Phase Description |
|-----------------------|-----------------------|------------|-----------|---------------|---------------------|-------------------|
| Site Preparation      | Site Preparation      | 6/1/2023   | 6/2/2023  | 5.00          | 2.00                | —                 |
| Grading               | Grading               | 6/3/2023   | 6/8/2023  | 5.00          | 4.00                | —                 |
| Building Construction | Building Construction | 6/9/2023   | 3/14/2024 | 5.00          | 200                 | —                 |
| Paving                | Paving                | 3/30/2024  | 4/12/2024 | 5.00          | 10.0                | —                 |
| Architectural Coating | Architectural Coating | 3/15/2024  | 3/28/2024 | 5.00          | 10.0                | —                 |
| Trenching             | Trenching             | 6/3/2023   | 6/8/2023  | 5.00          | 4.00                | —                 |

5.2. Off-Road Equipment

5.2.1. Unmitigated

| Phase Name       | Equipment Type            | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|------------------|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Site Preparation | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Site Preparation | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 7.00          | 367        | 0.40        |
| Site Preparation | Tractors/Loaders/Backhoes | Diesel    | Average     | 1.00           | 8.00          | 84.0       | 0.37        |
| Grading          | Graders                   | Diesel    | Average     | 1.00           | 8.00          | 148        | 0.41        |
| Grading          | Rubber Tired Dozers       | Diesel    | Average     | 1.00           | 8.00          | 367        | 0.40        |
| Grading          | Tractors/Loaders/Backhoes | Diesel    | Average     | 2.00           | 7.00          | 84.0       | 0.37        |

|                       |                           |        |         |      |      |      |      |
|-----------------------|---------------------------|--------|---------|------|------|------|------|
| Building Construction | Cranes                    | Diesel | Average | 1.00 | 6.00 | 367  | 0.29 |
| Building Construction | Forklifts                 | Diesel | Average | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets            | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 6.00 | 84.0 | 0.37 |
| Building Construction | Welders                   | Diesel | Average | 3.00 | 8.00 | 46.0 | 0.45 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average | 1.00 | 6.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Average | 1.00 | 6.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Average | 1.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Average | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors           | Diesel | Average | 1.00 | 6.00 | 37.0 | 0.48 |
| Trenching             | Tractors/Loaders/Backhoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Trenching             | Excavators                | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |

### 5.2.2. Mitigated

| Phase Name            | Equipment Type            | Fuel Type | Engine Tier    | Number per Day | Hours Per Day | Horsepower | Load Factor |
|-----------------------|---------------------------|-----------|----------------|----------------|---------------|------------|-------------|
| Site Preparation      | Graders                   | Diesel    | Tier 4 Interim | 1.00           | 8.00          | 148        | 0.41        |
| Site Preparation      | Rubber Tired Dozers       | Diesel    | Tier 4 Interim | 1.00           | 7.00          | 367        | 0.40        |
| Site Preparation      | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Interim | 1.00           | 8.00          | 84.0       | 0.37        |
| Grading               | Graders                   | Diesel    | Tier 4 Interim | 1.00           | 8.00          | 148        | 0.41        |
| Grading               | Rubber Tired Dozers       | Diesel    | Tier 4 Interim | 1.00           | 8.00          | 367        | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | Diesel    | Tier 4 Interim | 2.00           | 7.00          | 84.0       | 0.37        |
| Building Construction | Cranes                    | Diesel    | Tier 4 Interim | 1.00           | 6.00          | 367        | 0.29        |

|                       |                           |        |                |      |      |      |      |
|-----------------------|---------------------------|--------|----------------|------|------|------|------|
| Building Construction | Forklifts                 | Diesel | Tier 4 Interim | 1.00 | 6.00 | 82.0 | 0.20 |
| Building Construction | Generator Sets            | Diesel | Average        | 1.00 | 8.00 | 14.0 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 1.00 | 6.00 | 84.0 | 0.37 |
| Building Construction | Welders                   | Diesel | Tier 4 Interim | 3.00 | 8.00 | 46.0 | 0.45 |
| Paving                | Cement and Mortar Mixers  | Diesel | Average        | 1.00 | 6.00 | 10.0 | 0.56 |
| Paving                | Pavers                    | Diesel | Tier 4 Interim | 1.00 | 6.00 | 81.0 | 0.42 |
| Paving                | Paving Equipment          | Diesel | Tier 4 Interim | 1.00 | 8.00 | 89.0 | 0.36 |
| Paving                | Rollers                   | Diesel | Tier 4 Interim | 1.00 | 7.00 | 36.0 | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 1.00 | 8.00 | 84.0 | 0.37 |
| Architectural Coating | Air Compressors           | Diesel | Tier 4 Interim | 1.00 | 6.00 | 37.0 | 0.48 |
| Trenching             | Tractors/Loaders/Backhoes | Diesel | Tier 4 Interim | 1.00 | 8.00 | 84.0 | 0.37 |
| Trenching             | Excavators                | Diesel | Tier 4 Interim | 1.00 | 8.00 | 36.0 | 0.38 |

## 5.3. Construction Vehicles

### 5.3.1. Unmitigated

| Phase Name       | Trip Type    | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|--------------|-----------------------|----------------|---------------|
| Site Preparation | —            | —                     | —              | —             |
| Site Preparation | Worker       | 7.50                  | 11.7           | LDA,LDT1,LDT2 |
| Site Preparation | Vendor       | —                     | 8.40           | HHDT,MHDT     |
| Site Preparation | Hauling      | 0.00                  | 20.0           | HHDT          |
| Site Preparation | Onsite truck | —                     | —              | HHDT          |
| Grading          | —            | —                     | —              | —             |
| Grading          | Worker       | 10.0                  | 11.7           | LDA,LDT1,LDT2 |
| Grading          | Vendor       | —                     | 8.40           | HHDT,MHDT     |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Grading               | Hauling      | 62.5 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 1.49 | 11.7 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 0.69 | 8.40 | HHDT,MHDT     |
| Building Construction | Hauling      | 68.0 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 12.5 | 11.7 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Paving                | Hauling      | 90.0 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 0.30 | 11.7 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |
| Trenching             | —            | —    | —    | —             |
| Trenching             | Worker       | 5.00 | 11.7 | LDA,LDT1,LDT2 |
| Trenching             | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Trenching             | Hauling      | 0.00 | 20.0 | HHDT          |
| Trenching             | Onsite truck | —    | —    | HHDT          |

### 5.3.2. Mitigated

| Phase Name       | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix   |
|------------------|-----------|-----------------------|----------------|---------------|
| Site Preparation | —         | —                     | —              | —             |
| Site Preparation | Worker    | 7.50                  | 11.7           | LDA,LDT1,LDT2 |

|                       |              |      |      |               |
|-----------------------|--------------|------|------|---------------|
| Site Preparation      | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Site Preparation      | Hauling      | 0.00 | 20.0 | HHDT          |
| Site Preparation      | Onsite truck | —    | —    | HHDT          |
| Grading               | —            | —    | —    | —             |
| Grading               | Worker       | 10.0 | 11.7 | LDA,LDT1,LDT2 |
| Grading               | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Grading               | Hauling      | 62.5 | 20.0 | HHDT          |
| Grading               | Onsite truck | —    | —    | HHDT          |
| Building Construction | —            | —    | —    | —             |
| Building Construction | Worker       | 1.49 | 11.7 | LDA,LDT1,LDT2 |
| Building Construction | Vendor       | 0.69 | 8.40 | HHDT,MHDT     |
| Building Construction | Hauling      | 68.0 | 20.0 | HHDT          |
| Building Construction | Onsite truck | —    | —    | HHDT          |
| Paving                | —            | —    | —    | —             |
| Paving                | Worker       | 12.5 | 11.7 | LDA,LDT1,LDT2 |
| Paving                | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Paving                | Hauling      | 90.0 | 20.0 | HHDT          |
| Paving                | Onsite truck | —    | —    | HHDT          |
| Architectural Coating | —            | —    | —    | —             |
| Architectural Coating | Worker       | 0.30 | 11.7 | LDA,LDT1,LDT2 |
| Architectural Coating | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Architectural Coating | Hauling      | 0.00 | 20.0 | HHDT          |
| Architectural Coating | Onsite truck | —    | —    | HHDT          |
| Trenching             | —            | —    | —    | —             |
| Trenching             | Worker       | 5.00 | 11.7 | LDA,LDT1,LDT2 |
| Trenching             | Vendor       | —    | 8.40 | HHDT,MHDT     |
| Trenching             | Hauling      | 0.00 | 20.0 | HHDT          |

|           |              |   |   |      |
|-----------|--------------|---|---|------|
| Trenching | Onsite truck | — | — | HHDT |
|-----------|--------------|---|---|------|

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

| Phase Name            | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|-----------------------|------------------------------------------|------------------------------------------|----------------------------------------------|----------------------------------------------|-----------------------------|
| Architectural Coating | 1,632                                    | 544                                      | 5,310                                        | 1,770                                        | —                           |

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name       | Material Imported (cy) | Material Exported (cy) | Acres Graded (acres) | Material Demolished (sq. ft.) | Acres Paved (acres) |
|------------------|------------------------|------------------------|----------------------|-------------------------------|---------------------|
| Site Preparation | —                      | —                      | 1.88                 | 0.00                          | —                   |
| Grading          | 1,000                  | 1,000                  | 4.00                 | 0.00                          | —                   |
| Paving           | 0.00                   | 0.00                   | 0.00                 | 0.00                          | 0.01                |

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

| Land Use                          | Area Paved (acres) | % Asphalt |
|-----------------------------------|--------------------|-----------|
| Convenience Market with Gas Pumps | 0.00               | 0%        |
| Single Family Housing             | 0.01               | 0%        |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2  | CH4  | N2O     |
|------|--------------|------|------|---------|
| 2023 | 0.00         | 39.5 | 0.03 | < 0.005 |
| 2024 | 0.00         | 39.5 | 0.03 | < 0.005 |

5.9. Operational Mobile Sources

5.9.1. Unmitigated

| Land Use Type                     | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year  |
|-----------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Convenience Market with Gas Pumps | 2,480         | 2,480          | 2,480        | 905,026    | 3,216       | 3,216        | 3,216      | 1,173,916 |
| Single Family Housing             | 9.44          | 9.54           | 8.55         | 3,404      | 53.6        | 54.2         | 48.6       | 19,338    |

5.9.2. Mitigated

| Land Use Type                     | Trips/Weekday | Trips/Saturday | Trips/Sunday | Trips/Year | VMT/Weekday | VMT/Saturday | VMT/Sunday | VMT/Year  |
|-----------------------------------|---------------|----------------|--------------|------------|-------------|--------------|------------|-----------|
| Convenience Market with Gas Pumps | 2,480         | 2,480          | 2,480        | 905,026    | 3,216       | 3,216        | 3,216      | 1,173,916 |
| Single Family Housing             | 9.44          | 9.54           | 8.55         | 3,404      | 53.6        | 54.2         | 48.6       | 19,338    |

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

| Hearth Type | Unmitigated (number) |
|-------------|----------------------|
|-------------|----------------------|

|                           |   |
|---------------------------|---|
| Single Family Housing     | — |
| Wood Fireplaces           | 0 |
| Gas Fireplaces            | 0 |
| Propane Fireplaces        | 0 |
| Electric Fireplaces       | 0 |
| No Fireplaces             | 0 |
| Conventional Wood Stoves  | 0 |
| Catalytic Wood Stoves     | 0 |
| Non-Catalytic Wood Stoves | 0 |
| Pellet Wood Stoves        | 0 |

5.10.1.2. Mitigated

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

5.10.2. Architectural Coatings

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

|                    |     |       |       |   |
|--------------------|-----|-------|-------|---|
| 1632.1499999999999 | 544 | 5,310 | 1,770 | — |
|--------------------|-----|-------|-------|---|

5.10.3. Landscape Equipment

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

5.10.4. Landscape Equipment - Mitigated

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

5.11. Operational Energy Consumption

5.11.1. Unmitigated

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

| Land Use                          | Electricity (kWh/yr) | CO2  | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-----------------------------------|----------------------|------|--------|--------|-----------------------|
| Convenience Market with Gas Pumps | 181,901              | 39.5 | 0.0330 | 0.0040 | 102,643               |
| Single Family Housing             | 18,086               | 39.5 | 0.0330 | 0.0040 | 0.00                  |

5.11.2. Mitigated

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

| Land Use                          | Electricity (kWh/yr) | CO2  | CH4    | N2O    | Natural Gas (kBTU/yr) |
|-----------------------------------|----------------------|------|--------|--------|-----------------------|
| Convenience Market with Gas Pumps | 181,901              | 39.5 | 0.0330 | 0.0040 | 102,643               |
| Single Family Housing             | 18,086               | 39.5 | 0.0330 | 0.0040 | 0.00                  |

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

| Land Use                          | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-----------------------------------|-------------------------|--------------------------|
| Convenience Market with Gas Pumps | 222,218                 | 0.00                     |
| Single Family Housing             | 32,237                  | 0.00                     |

5.12.2. Mitigated

| Land Use                          | Indoor Water (gal/year) | Outdoor Water (gal/year) |
|-----------------------------------|-------------------------|--------------------------|
| Convenience Market with Gas Pumps | 222,218                 | 0.00                     |
| Single Family Housing             | 32,237                  | 0.00                     |

5.13. Operational Waste Generation

5.13.1. Unmitigated

| Land Use                          | Waste (ton/year) | Cogeneration (kWh/year) |
|-----------------------------------|------------------|-------------------------|
| Convenience Market with Gas Pumps | 10.6             | —                       |
| Single Family Housing             | 0.63             | —                       |

5.13.2. Mitigated

| Land Use                          | Waste (ton/year) | Cogeneration (kWh/year) |
|-----------------------------------|------------------|-------------------------|
| Convenience Market with Gas Pumps | 10.6             | —                       |
| Single Family Housing             | 0.63             | —                       |

5.14. Operational Refrigeration and Air Conditioning Equipment

## 5.14.1. Unmitigated

| Land Use Type                     | Equipment Type                                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-----------------------------------|---------------------------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| Convenience Market with Gas Pumps | Other commercial A/C and heat pumps                     | R-410A      | 2,088 | < 0.005       | 4.00                 | 4.00              | 18.0           |
| Convenience Market with Gas Pumps | Supermarket refrigeration and condensing units          | R-404A      | 3,922 | 26.5          | 16.5                 | 16.5              | 18.0           |
| Single Family Housing             | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088 | < 0.005       | 2.50                 | 2.50              | 10.0           |
| Single Family Housing             | Household refrigerators and/or freezers                 | R-134a      | 1,430 | 0.12          | 0.60                 | 0.00              | 1.00           |

## 5.14.2. Mitigated

| Land Use Type                     | Equipment Type                                          | Refrigerant | GWP   | Quantity (kg) | Operations Leak Rate | Service Leak Rate | Times Serviced |
|-----------------------------------|---------------------------------------------------------|-------------|-------|---------------|----------------------|-------------------|----------------|
| Convenience Market with Gas Pumps | Other commercial A/C and heat pumps                     | R-410A      | 2,088 | < 0.005       | 4.00                 | 4.00              | 18.0           |
| Convenience Market with Gas Pumps | Supermarket refrigeration and condensing units          | R-404A      | 3,922 | 26.5          | 16.5                 | 16.5              | 18.0           |
| Single Family Housing             | Average room A/C & Other residential A/C and heat pumps | R-410A      | 2,088 | < 0.005       | 2.50                 | 2.50              | 10.0           |
| Single Family Housing             | Household refrigerators and/or freezers                 | R-134a      | 1,430 | 0.12          | 0.60                 | 0.00              | 1.00           |

## 5.15. Operational Off-Road Equipment

## 5.15.1. Unmitigated

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

5.15.2. Mitigated

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

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

| Equipment Type | Fuel Type | Number per Day | Hours per Day | Hours per Year | Horsepower | Load Factor |
|----------------|-----------|----------------|---------------|----------------|------------|-------------|
|----------------|-----------|----------------|---------------|----------------|------------|-------------|

5.16.2. Process Boilers

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

5.17. User Defined

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

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

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

5.18.1.2. Mitigated

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

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

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

5.18.1.2. Mitigated

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

5.18.2. Sequestration

5.18.2.1. Unmitigated

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

5.18.2.2. Mitigated

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

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

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

| Climate Hazard               | Result for Project Location | Unit                                       |
|------------------------------|-----------------------------|--------------------------------------------|
| Temperature and Extreme Heat | 11.2                        | annual days of extreme heat                |
| Extreme Precipitation        | 14.1                        | annual days with precipitation above 20 mm |
| Sea Level Rise               | 0.00                        | meters of inundation depth                 |
| Wildfire                     | 0.00                        | annual hectares burned                     |

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

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

Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (Radke et al., 2017, CEC-500-2017-008), and consider inundation location and depth for the San Francisco Bay, the Sacramento-San Joaquin River Delta and California coast resulting different increments of sea level rise coupled with extreme storm events.

Users may select from four scenarios to view the range in potential inundation depth for the grid cell. The four scenarios are: No rise, 0.5 meter, 1.0 meter, 1.41 meters

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

## 6.2. Initial Climate Risk Scores

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

|                         |     |     |     |     |
|-------------------------|-----|-----|-----|-----|
| Wildfire                | N/A | N/A | N/A | N/A |
| Flooding                | N/A | N/A | N/A | N/A |
| Drought                 | N/A | N/A | N/A | N/A |
| Snowpack Reduction      | N/A | N/A | N/A | N/A |
| Air Quality Degradation | 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            | 6.38                            |
| AQ-PM               | 6.51                            |
| AQ-DPM              | 17.1                            |
| Drinking Water      | 18.4                            |
| Lead Risk Housing   | 51.0                            |
| Pesticides          | 59.7                            |
| Toxic Releases      | 2.25                            |
| Traffic             | 33.5                            |
| Effect Indicators   | —                               |
| CleanUp Sites       | 61.8                            |

|                                 |      |
|---------------------------------|------|
| Groundwater                     | 95.8 |
| Haz Waste Facilities/Generators | 85.4 |
| Impaired Water Bodies           | 66.7 |
| Solid Waste                     | 89.8 |
| Sensitive Population            | —    |
| Asthma                          | 75.9 |
| Cardio-vascular                 | 83.9 |
| Low Birth Weights               | 22.6 |
| Socioeconomic Factor Indicators | —    |
| Education                       | 70.2 |
| Housing                         | 47.1 |
| Linguistic                      | 59.8 |
| Poverty                         | 52.7 |
| Unemployment                    | 49.9 |

7.2. Healthy Places Index Scores

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

| Indicator              | Result for Project Census Tract |
|------------------------|---------------------------------|
| Economic               | —                               |
| Above Poverty          | 44.61696394                     |
| Employed               | 64.05748749                     |
| Median HI              | 56.24278198                     |
| Education              | —                               |
| Bachelor's or higher   | 31.64378288                     |
| High school enrollment | 100                             |
| Preschool enrollment   | 20.18478121                     |
| Transportation         | —                               |

|                                              |             |
|----------------------------------------------|-------------|
| Auto Access                                  | 65.16104196 |
| Active commuting                             | 56.0246375  |
| Social                                       | —           |
| 2-parent households                          | 22.53304247 |
| Voting                                       | 73.68150905 |
| Neighborhood                                 | —           |
| Alcohol availability                         | 59.43795714 |
| Park access                                  | 25.83087386 |
| Retail density                               | 18.69626588 |
| Supermarket access                           | 40.40805851 |
| Tree canopy                                  | 36.75093032 |
| Housing                                      | —           |
| Homeownership                                | 44.89926857 |
| Housing habitability                         | 50.0449121  |
| Low-inc homeowner severe housing cost burden | 37.88014885 |
| Low-inc renter severe housing cost burden    | 69.16463493 |
| Uncrowded housing                            | 37.31553959 |
| Health Outcomes                              | —           |
| Insured adults                               | 45.18157321 |
| Arthritis                                    | 84.5        |
| Asthma ER Admissions                         | 26.4        |
| High Blood Pressure                          | 94.2        |
| Cancer (excluding skin)                      | 74.5        |
| Asthma                                       | 32.2        |
| Coronary Heart Disease                       | 85.5        |
| Chronic Obstructive Pulmonary Disease        | 56.7        |
| Diagnosed Diabetes                           | 80.8        |

|                                       |      |
|---------------------------------------|------|
| Life Expectancy at Birth              | 34.2 |
| Cognitively Disabled                  | 10.2 |
| Physically Disabled                   | 32.1 |
| Heart Attack ER Admissions            | 33.4 |
| Mental Health Not Good                | 35.7 |
| Chronic Kidney Disease                | 85.5 |
| Obesity                               | 54.6 |
| Pedestrian Injuries                   | 63.5 |
| Physical Health Not Good              | 53.6 |
| Stroke                                | 84.7 |
| Health Risk Behaviors                 | —    |
| Binge Drinking                        | 17.1 |
| Current Smoker                        | 32.2 |
| No Leisure Time for Physical Activity | 56.5 |
| Climate Change Exposures              | —    |
| Wildfire Risk                         | 0.0  |
| SLR Inundation Area                   | 0.0  |
| Children                              | 69.7 |
| Elderly                               | 76.6 |
| English Speaking                      | 63.9 |
| Foreign-born                          | 43.9 |
| Outdoor Workers                       | 19.6 |
| Climate Change Adaptive Capacity      | —    |
| Impervious Surface Cover              | 74.3 |
| Traffic Density                       | 32.5 |
| Traffic Access                        | 52.0 |
| Other Indices                         | —    |

|                        |      |
|------------------------|------|
| Hardship               | 60.5 |
| Other Decision Support | —    |
| 2016 Voting            | 67.8 |

7.3. Overall Health & Equity Scores

| Metric                                                                              | Result for Project Census Tract |
|-------------------------------------------------------------------------------------|---------------------------------|
| CalEnviroScreen 4.0 Score for Project Location (a)                                  | 62.0                            |
| Healthy Places Index Score for Project Location (b)                                 | 51.0                            |
| Project Located in a Designated Disadvantaged Community (Senate Bill 535)           | No                              |
| Project Located in a Low-Income Community (Assembly Bill 1550)                      | No                              |
| Project Located in a Community Air Protection Program Community (Assembly Bill 617) | No                              |

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

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

| Screen                               | Justification                                                                                             |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Characteristics: Utility Information | Santa Rosa Default Power provider is Sonoma Clean Power.                                                  |
| Land Use                             | Total lot acreage from project description. Total square footages from project plans and trip generation. |
| Construction: Construction Phases    | Defaults based on provided land uses from project applicant.                                              |

|                                   |                                                                                                         |
|-----------------------------------|---------------------------------------------------------------------------------------------------------|
| Construction: Off-Road Equipment  | Defaults.                                                                                               |
| Construction: Trips and VMT       | Building const = est 34 concrete truck round trips, Paving = est 45 asphalt truck round trips.          |
| Operations: Vehicle Data          | Weekday passby and diverted applied to Weekend                                                          |
| Operations: Hearths               | No hearths.                                                                                             |
| Operations: Energy Use            | Santa Rosa REACH code - all electric new residential construction - convert natural gas to electricity. |
| Operations: Water and Waste Water | Wastewater 100% aerobic, no septic tanks or lagoons.                                                    |