

## Appendices

# **Appendix B      Air Quality and Greenhouse Gas Modeling**

## Appendices

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## CalEEMod Land Use Inputs: Existing Land Use Model Run

| Type                              | Land Use Type | Land Use Unit<br>Amount | Land Use Size<br>Metric | Lot Acreage | Land Use Square<br>Feet |
|-----------------------------------|---------------|-------------------------|-------------------------|-------------|-------------------------|
| Strip Mall                        | Retail        | 6.932                   | 1000bsf                 | 0.16        | 6,932                   |
| Quality Restaurant                | Recreation    | 9.632                   | 1000bsf                 | 0.22        | 9,632                   |
| High-Turnover Sit Down Restaurant | Recreation    | 1.596                   | 1000bsf                 | 0.04        | 1,596                   |
| Parking Lot                       | Parking       | 462                     | stall                   | 4.24        | 184,800                 |
| Other Asphalt                     | Parking       | 1.031                   | acre                    | 1.03        | 0                       |
|                                   |               |                         | <b>Total</b>            | <b>5.69</b> | <b>acres</b>            |

Project Location: Orange County  
 Climate Zone: 8  
 Operation Year: 2017, 2019  
 Land Use Setting: Urban  
 Utility Company: SCE  
 Project Site Acreage: 5.69 acres

### Land Uses/Development

|                                           |               |                            |
|-------------------------------------------|---------------|----------------------------|
| <i>Strip Mall:</i>                        | 6,932         | building square feet (BSF) |
| <i>Quality Restaurant:</i>                | 9,632         |                            |
| <i>High-Turnover Sit Down Restaurant:</i> | 1,596         |                            |
| <b>Total</b>                              | <b>18,160</b> | <b>BSF</b>                 |

**Other**  
 Asphalt

|                             |     |        |
|-----------------------------|-----|--------|
| <b>Surface Parking Lot:</b> | 462 | stalls |
|-----------------------------|-----|--------|

## Trip Generation

| Land Use                           | Weekday Trip Rate<br>(trips/day/1000BSF) <sup>1</sup> | Weekday Average<br>Daily Trips | Saturday Trip                                | Saturday Average<br>Daily Trips | Sunday Trip Rate                     | Sunday Average<br>Daily Trips |
|------------------------------------|-------------------------------------------------------|--------------------------------|----------------------------------------------|---------------------------------|--------------------------------------|-------------------------------|
|                                    |                                                       |                                | Rate<br>(trips/day/1000B<br>SF) <sup>2</sup> |                                 | (trips/day/1000B<br>SF) <sup>2</sup> |                               |
| Strip Mall:                        | 37.75                                                 | 262                            | 46.12                                        | 320                             | 21.1                                 | 146                           |
| Quality Restaurant:                | 83.84                                                 | 808                            | 90.04                                        | 867                             | 71.97                                | 693                           |
| High-Turnover Sit Down Restaurant: | 112.18                                                | 179                            | 122.4                                        | 195                             | 142.64                               | 228                           |
| <b>Total</b>                       |                                                       | <b>1,248</b>                   |                                              | <b>1,382</b>                    |                                      | <b>1,067</b>                  |

<sup>1</sup> LSA. 2018, June. Traffic Impact Analysis: Newport Crossings.

<sup>2</sup> Institute of Transportation Engineers. 2017, September. Trip Generation Manual, 10th Edition.

## Water Use

|                              |       |                 |
|------------------------------|-------|-----------------|
| Water Demand Rate            | 5,680 | gal/day         |
| Wastewater Generation Rate:* | 60    | gal/day/1000BSF |

\*Assumes 100 percent of total water demand for purposes of this analysis.

| Land Use                          | Indoor               |                       | Outdoor              |                       | Total                 |
|-----------------------------------|----------------------|-----------------------|----------------------|-----------------------|-----------------------|
|                                   | gal/day <sup>1</sup> | gal/year <sup>2</sup> | gal/day <sup>1</sup> | gal/year <sup>2</sup> | gal/year <sup>2</sup> |
| Strip Mall                        | 416                  | 151,811               | 0                    | 0                     | 151,811               |
| Quality Restaurant                | 578                  | 210,941               | 0                    | 0                     | 210,941               |
| High-Turnover Sit Down Restaurant | 96                   | 34,952                | 0                    | 0                     | 34,952                |
|                                   |                      |                       | <b>Total</b>         |                       | <b>397,704</b>        |

<sup>1</sup> Assumes total wastewater demand is 100 percent total water demand for purposes of this analysis.

<sup>2</sup> Assumes 365 days per year.

### **Solid Waste**

| <b>Land Use</b>                   | <b>Generation Rate<br/>(lb/SF/day)</b> | <b>Tons/Day<sup>1</sup></b> | <b>Tons/Year<sup>2</sup></b> |
|-----------------------------------|----------------------------------------|-----------------------------|------------------------------|
| Strip Mall                        | 0.006                                  | 42                          | 8                            |
| Quality Restaurant                | 0.006                                  | 58                          | 11                           |
| High-Turnover Sit Down Restaurant | 0.006                                  | 10                          | 2                            |
|                                   |                                        | <b>Total</b>                | <b>20</b>                    |

<sup>1</sup> Based on solid waste generation rate as provided in Chapter 5.16, Utilities and Service Systems, of this DEIR.

<sup>2</sup> Assumes 365 days per year.

### **Electricity (Buildings)**

Historical rates used as existing fire station assumed to be built to the 2005 Building Energy Efficiency Standards.

CalEEMod Project Characteristics Inputs

|                   |                                     |
|-------------------|-------------------------------------|
| Name:             | Newport Crossings Mixed-Use Project |
| Project Location: | Orange County                       |
| Project Address:  |                                     |
| Climate Zone:     | 8                                   |
| Land Use Setting: | Urban                               |
| Operational Year: | 2022                                |
| Utility Company:  | Southern California Edison          |
| Air Basin:        | South Coast Air Basin               |
| Air District:     | SCAQMD                              |
| SRA:              |                                     |

General Info

Total Project Site Acreage: 5.69 acres

Gross Building Area

| Building                        | Square Feet |
|---------------------------------|-------------|
| Residential/Mixed Use Building: | 448,127     |
| Retail:                         | 5,500       |
| Restaurant:                     | 2,000       |
| Residential:                    | 440,627     |
| Parking Structure:              | 278,337     |
| Total                           | 726,464     |

|                           |        |      |
|---------------------------|--------|------|
| Public Park               | 0.50   | acre |
| Total Non-Parking Asphalt | 14,460 | feet |
| Total Hardscape           | 31,489 | feet |
| Total Landscaping         | 58,552 | feet |
| Parking                   | 2,140  | feet |

\*Based on site plan.

CalEEMod Land Use Inputs

| Land Use              | Land Use Type | Land Use Subtype                  | Unit Amount | Size Metric | Lot Acreage | Square Feet |
|-----------------------|---------------|-----------------------------------|-------------|-------------|-------------|-------------|
| Residential           | Residential   | Apartment Mid Rise                | 350         | DU          | 3.74        | 440,627     |
| Retail                | Retail        | Strip Mall                        | 5.50        | 1000BSF     | 0.00        | 5,500       |
| Restaurant            | Recreational  | High Turnover Sitdown Restaurant  | 2.00        | 1000BSF     | 0.00        | 2,000       |
| Parking Structure     | Parking       | Enclosed Parking Structure w/Elev | 278.337     | 1000BSF     | 1.06        | 278,337     |
| Public Park           | Recreational  | City Park                         | 0.50        | acres       | 0.50        | 0           |
| Non-Parking Asphalt** | Parking       | Other Asphalt Surfaces            | 0.33        | acres       | 0.33        | 0           |
| Surface Parking Lot   | Parking       | Parking Lot                       | 2.14        | 1000BSF     | 0.05        | 2,140       |
|                       |               |                                   |             |             | 5.69        | acre        |

Trip Generation

| Land Use            | Weekday Trip Rate<br>(trips/unit<br>amount/1000BSF) <sup>1</sup> | Weekday Average Daily Trips | Saturday Trip                            | Saturday<br>Average<br>Daily Trips | Sunday Trip                              | Sunday<br>Average Daily<br>Trips |
|---------------------|------------------------------------------------------------------|-----------------------------|------------------------------------------|------------------------------------|------------------------------------------|----------------------------------|
|                     |                                                                  |                             | Rate<br>(trips/day/1000BSF) <sup>2</sup> |                                    | Rate<br>(trips/day/1000BSF) <sup>2</sup> |                                  |
| Residential         | 5.44                                                             | 1,904                       | 4.91                                     | 1,719                              | 4.09                                     | 1,432                            |
| Retail <sup>3</sup> | 36.00                                                            | 198                         | 36.00                                    | 198                                | 36.00                                    | 198                              |
| Restaurant          | 112.18                                                           | 224                         | 122.4                                    | 245                                | 142.64                                   | 285                              |
| Total               |                                                                  | 2,326                       |                                          | 2,161                              |                                          | 1,915                            |

<sup>1</sup> LSA Associates. 2018, June. Traffic Impact Analysis: Newport Crossings.

<sup>2</sup> Institute of Transportation Engineers. 2017, September. Trip Generation Manual, 10th Edition.

<sup>3</sup> Assumes weekday trip generation rate for Saturday and Sunday for purposes of this analysis. Trip rate assumes 10 percent retail adjustment factor per LSA methodology.

**Water Use**

| Land Use    | gal/day <sup>1</sup> | Indoor                | Outdoor              |                       | Total                | Total                 |
|-------------|----------------------|-----------------------|----------------------|-----------------------|----------------------|-----------------------|
|             |                      | gal/year <sup>2</sup> | gal/day <sup>1</sup> | gal/year <sup>2</sup> | gal/day <sup>1</sup> | gal/year <sup>2</sup> |
| Residential | 85,750               | 31,298,750            | 89,089               | 32,517,485            | 174,839              | 63,816,235            |
| Retail      | 138                  | 50,321                | 1,072                | 391,329               | 1,210                | 441,650               |
| Restaurant  | 50                   | 18,299                | 390                  | 142,301               | 440                  | 160,600               |
| Public Park | 0                    | 0                     | 1,700                | 620,500               | 1,700                | 620,500               |
| Total       | 85,938               | 31,367,370            | 92,251               | 33,671,615            | 178,189              | 65,038,985            |

<sup>1</sup> Chapter 5.16, Utilities and Service Systems of this DEIR.

<sup>2</sup> Assumes 365 days per year.

**Solid Waste**

| Land Use    | Tons/Day <sup>1</sup> | Tons/Year <sup>2</sup> |
|-------------|-----------------------|------------------------|
| Residential | 1,859                 | 339                    |
| Retail      | 33                    | 6                      |
| Restaurant  | 36                    | 7                      |
| Total       | 1,928                 | 352                    |

<sup>1</sup> Chapter 5.xx16, Utilities and Service Systems of this DEIR.

<sup>2</sup> Assumes 365 days per year.

**Electricity (Buildings)**

Assumes buildings would be built to meet the 2016 Building Energy Efficiency Standards.

**Demolition Haul**

| Phases                    | Amount to be Hauled | Haul Truck Capacity (CY)* | Haul Distance | Total Trip | Duration (days) | Trip Ends/Day |
|---------------------------|---------------------|---------------------------|---------------|------------|-----------------|---------------|
|                           | (tons)*             |                           | (miles)*      | Ends       |                 |               |
| Building Demo Debris Haul | 8,400               | 18                        | 30            | 2,089      | 17              | 123           |
| Asphalt Demo Debris Haul  | 4,000               | 14                        | 4.7           | 153        | 3               | 51            |

\*Provided by the Applicant.

**Soil Haul (Rough Grading Soil Haul)**

| Activity               | Total Export Volume | Haul Truck Capacity (CY)* | Haul Distance | Total Trip | Total Days** | Trip Ends/Day |
|------------------------|---------------------|---------------------------|---------------|------------|--------------|---------------|
|                        | (CY)*               |                           | (miles)*      | Ends       |              |               |
| Site Preparation       | 0                   | 16 (Default)              | 20 (default)  | 0          | 66           | 0             |
| Rough Grading          | 7,542               | 14                        | 20            | 1,614      | 3            | 538           |
| Fine Grading           | 0                   | 16 (Default)              | 20 (default)  | 0          | 3            | 0             |
| Parking Lot Excavation | 7,000               | 14                        | 20            | 875        | 10           | 88            |

\*Provided by the Applicant.

**Architectural Coating**

|                                             |     |         |
|---------------------------------------------|-----|---------|
| Percentage of Buildings' Exterior Painted:* | 75% | percent |
| Percentage of Buildings' Interior Painted:* | 80% | percent |

\*Provided by the Applicant.

| Residential Structures | Land Use Square Feet | CalEEMod Paintable Surface Area | Total Paintable | Paintable                  | Paintable                  |
|------------------------|----------------------|---------------------------------|-----------------|----------------------------|----------------------------|
|                        |                      | Multiplier                      | Surface Area    | Interior Area <sup>1</sup> | Exterior Area <sup>1</sup> |
| Residential            | 440,627              | 2.7                             | 1,189,693       | 713,816                    | 223,067                    |
| Retail                 | 5,500                | 2.0                             | 11,000          | 6,600                      | 2,063                      |
| Restaurant             | 2,000                | 2.0                             | 4,000           | 2,400                      | 750                        |
| Non-Residential Total: |                      |                                 |                 | 9,000                      | 2,813                      |
| Surface Parking        | 280,477              | 0.06                            | 16,829          | 0                          | 16,829                     |

<sup>1</sup> CalEEMod methodology calculates the paintable interior and exterior areas of a building by multiplying the total paintable surface area by 75 and 25 percent, respectively. For parking lots, the paintable surface area is based on 6 percent of the total surface area of the parking lot.

**Construction - Unmitigated Run**  
***SCAQMD Rule 403***

|                      |                |    |             |
|----------------------|----------------|----|-------------|
| Replace Ground Cover | PM10:          | 5  | % Reduction |
|                      | PM25:          | 5  | % Reduction |
| Water Exposed Area   | Frequency:     | 2  | per day     |
|                      | PM10:          | 55 | % Reduction |
|                      | PM25:          | 55 | % Reduction |
| Unpaved Roads        | Vehicle Speed: | 15 | mph         |

***SCAQMD Rule 1186***

|                  |   |                |
|------------------|---|----------------|
| Clean Paved Road | 9 | % PM Reduction |
|------------------|---|----------------|

## Changes to the CalEEMod Defaults - Project Fleet Mix 2022

Weekday Daily Trips: 2,326

| Commercial<br>Default    | LDA      | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |          |         |
|--------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|
| FleetMix (Model Default) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 | 100%    |
| Trips                    | 1,306    | 101      | 487      | 260      | 36       | 13       | 60       | 40       | 4        | 4        | 11       | 1        | 2        | 2,326   |
| Percent                  | 82%      |          |          | 11%      | 7%       |          |          |          |          |          |          |          |          | 100%    |
| Proportion               | 0.685392 | 0.052846 | 0.255748 | 1.000000 | 0.224928 | 0.083851 | 0.373732 | 0.247790 | 0.025278 | 0.022312 | 0.006014 | 0.008595 | 0.013514 |         |
| Assumed Mix              | 97%      |          |          | 2%       | 1%       |          |          |          |          |          |          |          |          | 100.00% |
| adjusted with Assumed    | 0.664830 | 0.051261 | 0.248075 | 0.020000 | 0.002249 | 0.000839 | 0.003737 | 0.002478 | 0.000253 | 0.000223 | 0.005834 | 0.000086 | 0.000135 | 100%    |
| Trips                    | 1,547    | 119      | 577      | 47       | 5        | 2        | 9        | 6        | 1        | 1        | 14       | 0        | 0        | 2,326   |
|                          | 66%      | 5%       | 25%      | 2%       | 0%       | 0%       | 0%       | 0%       | 0%       | 0%       | 1%       | 0%       | 0%       | 100%    |
| Modified                 | 0.664830 | 0.051261 | 0.248075 | 0.020000 | 0.002249 | 0.000839 | 0.003737 | 0.002478 | 0.000253 | 0.000223 | 0.005834 | 0.000086 | 0.000135 | 100.0%  |
| Trips                    | 1,547    | 119      | 577      | 47       | 5        | 2        | 9        | 6        | 1        | 1        | 14       | 0        | 0        | 2,326   |

**CalEEMod Construction Phase Inputs\***

5-Day Work Week/8 hours per day

**Provided Schedule**

| Phase Name                                       | Phase Type            | Start Date | End Date   | Total Workdays | Total Days |
|--------------------------------------------------|-----------------------|------------|------------|----------------|------------|
| Building Demolition                              | Demolition            | 12/1/2019  | 12/27/2019 | 20             | 26         |
| Building Demo Debris Haul (if applicable)        | Demolition            | 12/5/2019  | 12/27/2019 | 17             | 22         |
| Asphalt Demolition                               | Demolition            | 12/24/2019 | 12/26/2019 | 3              | 2          |
| Asphalt Demo Debris Haul (if applicable)         | Demolition            | 12/24/2019 | 12/26/2019 | 3              | 2          |
| Site Preparation                                 | Site Preparation      | 12/26/2019 | 12/26/2019 | 1              | 0          |
| Rough Grading                                    | Grading               | 12/29/2019 | 1/1/2020   | 3              | 3          |
| Rough Grading Soil Haul (if applicable)          | Grading               | 12/31/2019 | 1/2/2020   | 3              | 2          |
| Fine Grading                                     | Grading               | 1/1/2020   | 1/13/2020  | 9              | 12         |
| Parking Structure Excavation                     | Grading               | 1/5/2020   | 1/17/2020  | 10             | 12         |
| Parking Structure Soil Haul                      | Grading               | 1/5/2020   | 1/17/2020  | 10             | 12         |
| Parking Structure Shoring                        | Grading               | 1/5/2020   | 1/17/2020  | 10             | 12         |
| Wet Utility Installation                         | Trenching             | 1/9/2020   | 3/5/2020   | 41             | 56         |
| Structural Concrete                              | Paving                | 2/19/2020  | 12/7/2020  | 209            | 292        |
| Multi-Use Structure                              | Building Construction | 2/19/2020  | 1/27/2023  | 768            | 1073       |
| Dry Utility Installation                         | Trenching             | 3/2/2020   | 3/13/2020  | 10             | 11         |
| Street Improvements - Balancing / Aggregate Base | Paving                | 3/16/2020  | 3/20/2020  | 5              | 4          |
| Street Improvements - Curb & Gutter              | Paving                | 3/23/2020  | 3/27/2020  | 5              | 4          |
| Asphalt Paving                                   | Paving                | 4/1/2020   | 4/2/2020   | 2              | 1          |
| Street Improvements - Concrete Flatwork          | Paving                | 4/5/2020   | 4/20/2020  | 11             | 15         |

**CalEEMod Inputs**

| Phase Name                                       | Phase Type            | Start Date | End Date   | CalEEMod Total Days | Total Days |
|--------------------------------------------------|-----------------------|------------|------------|---------------------|------------|
| Building Demolition                              | Demolition            | 12/1/2019  | 12/27/2019 | 20                  | 26         |
| Building Demo Debris Haul (if applicable)        | Demolition            | 12/5/2019  | 12/27/2019 | 17                  | 22         |
| Asphalt Demolition                               | Demolition            | 12/24/2019 | 12/26/2019 | 3                   | 2          |
| Asphalt Demo Debris Haul (if applicable)         | Demolition            | 12/24/2019 | 12/26/2019 | 3                   | 2          |
| Site Preparation                                 | Site Preparation      | 12/26/2019 | 12/26/2019 | 1                   | 0          |
| Rough Grading                                    | Grading               | 12/29/2019 | 1/1/2020   | 3                   | 3          |
| Rough Grading Soil Haul (if applicable)          | Grading               | 1/1/2020   | 1/3/2020   | 3                   | 2          |
| Fine Grading                                     | Grading               | 1/1/2020   | 1/13/2020  | 9                   | 12         |
| Parking Structure Excavation/Shoring/Hauling     | Grading               | 1/5/2020   | 1/17/2020  | 10                  | 12         |
| Wet Utility Installation                         | Trenching             | 1/9/2020   | 3/5/2020   | 41                  | 56         |
| Multi-Use Structure                              | Building Construction | 2/19/2020  | 1/27/2023  | 768                 | 1073       |
| Structural Concrete                              | Paving                | 2/19/2020  | 12/7/2020  | 209                 | 292        |
| Dry Utility Installation                         | Trenching             | 3/2/2020   | 3/13/2020  | 10                  | 11         |
| Street Improvements - Balancing / Aggregate Base | Paving                | 3/16/2020  | 3/20/2020  | 5                   | 4          |
| Street Improvements - Curb & Gutter              | Paving                | 3/23/2020  | 3/27/2020  | 5                   | 4          |
| Asphalt Paving                                   | Paving                | 4/1/2020   | 4/2/2020   | 2                   | 1          |
| Street Improvements - Concrete Flatwork          | Paving                | 4/5/2020   | 4/20/2020  | 11                  | 15         |
| Architectural Coating**                          | Architectural Coating | 10/27/2022 | 1/27/2023  | 67                  | 93         |

\*Based on construction schedule provided by the Applicant.

\*\*Assumes duration is 8.7 percent of total Multi-Use Structure phase based on ratio of CalEEMod building construction and architectural coating default durations

### CalEEMod Construction Phase Inputs - Mitigated Scenario\*

5-Day Work Week/8 hours per day

#### Provided Schedule

| Phase Name                                       | Phase Type            | Start Date | End Date   | Total Workdays | Total Days |
|--------------------------------------------------|-----------------------|------------|------------|----------------|------------|
| Building Demolition                              | Demolition            | 12/1/2019  | 12/27/2019 | 20             | 26         |
| Building Demo Debris Haul (if applicable)        | Demolition            | 12/5/2019  | 12/27/2019 | 17             | 22         |
| Asphalt Demolition                               | Demolition            | 12/24/2019 | 12/26/2019 | 3              | 2          |
| Asphalt Demo Debris Haul (if applicable)         | Demolition            | 12/24/2019 | 12/26/2019 | 3              | 2          |
| Site Preparation                                 | Site Preparation      | 12/26/2019 | 12/26/2019 | 1              | 0          |
| Rough Grading                                    | Grading               | 12/29/2019 | 1/1/2020   | 3              | 3          |
| Rough Grading Soil Haul (if applicable)          | Grading               | 1/1/2020   | 1/3/2020   | 3              | 2          |
| Fine Grading                                     | Grading               | 1/1/2020   | 1/13/2020  | 9              | 12         |
| Parking Structure Excavation                     | Grading               | 1/5/2020   | 1/17/2020  | 10             | 12         |
| Parking Structure Soil Haul                      | Grading               | 1/9/2020   | 3/5/2020   | 10             | 56         |
| Parking Structure Shoring                        | Grading               | 2/19/2020  | 1/27/2023  | 10             | 1073       |
| Wet Utility Installation                         | Trenching             | 2/19/2020  | 12/7/2020  | 41             | 292        |
| Structural Concrete                              | Paving                | 3/2/2020   | 3/13/2020  | 209            | 11         |
| Multi-Use Structure                              | Building Construction | 3/16/2020  | 3/20/2020  | 768            | 4          |
| Dry Utility Installation                         | Trenching             | 3/23/2020  | 3/27/2020  | 10             | 4          |
| Street Improvements - Balancing / Aggregate Base | Paving                | 4/1/2020   | 4/2/2020   | 5              | 1          |
| Street Improvements - Curb & Gutter              | Paving                | 4/5/2020   | 4/20/2020  | 5              | 15         |
| Asphalt Paving                                   | Paving                | 10/27/2022 | 1/27/2023  | 2              | 92         |
| Street Improvements - Concrete Flatwork          | Paving                | 4/5/2020   | 4/20/2020  | 11             | 15         |

#### CalEEMod Inputs

| Phase Name                                       | Phase Type            | Start Date       | End Date         | CalEEMod Total Days | Total Days |
|--------------------------------------------------|-----------------------|------------------|------------------|---------------------|------------|
| Building Demolition                              | Demolition            | 12/1/2019        | 12/27/2019       | 20                  | 26         |
| <b>Building Demo Debris Haul (if applicable)</b> | <b>Demolition</b>     | <b>12/5/2019</b> | <b>1/3/2020</b>  | <b>22</b>           | <b>29</b>  |
| Asphalt Demolition                               | Demolition            | 12/24/2019       | 12/26/2019       | 3                   | 2          |
| Asphalt Demo Debris Haul (if applicable)         | Demolition            | 12/24/2019       | 12/26/2019       | 3                   | 2          |
| Site Preparation                                 | Site Preparation      | 1/4/2020         | 1/6/2020         | 1                   | 2          |
| Rough Grading                                    | Grading               | 1/7/2020         | 1/9/2020         | 3                   | 2          |
| <b>Rough Grading Soil Haul (if applicable)</b>   | <b>Grading</b>        | <b>1/9/2020</b>  | <b>1/17/2020</b> | <b>7</b>            | <b>8</b>   |
| Fine Grading                                     | Grading               | 1/18/2020        | 1/30/2020        | 9                   | 12         |
| Parking Structure Excavation/Shoring/Hauling     | Grading               | 1/22/2020        | 2/4/2020         | 10                  | 13         |
| Wet Utility Installation                         | Trenching             | 1/26/2020        | 3/23/2020        | 41                  | 57         |
| Multi-Use Structure                              | Building Construction | 3/7/2020         | 2/15/2023        | 768                 | 1075       |
| Structural Concrete                              | Paving                | 3/7/2020         | 12/24/2020       | 209                 | 292        |
| Dry Utility Installation                         | Trenching             | 3/19/2020        | 4/1/2020         | 10                  | 13         |
| Street Improvements - Balancing / Aggregate Base | Paving                | 4/2/2020         | 4/8/2020         | 5                   | 6          |
| Street Improvements - Curb & Gutter              | Paving                | 4/9/2020         | 4/15/2020        | 5                   | 6          |
| Asphalt Paving                                   | Paving                | 4/18/2020        | 4/21/2020        | 2                   | 3          |
| Street Improvements - Concrete Flatwork          | Paving                | 4/22/2020        | 5/6/2020         | 11                  | 14         |
| Architectural Coating**                          | Architectural Coating | 11/16/2022       | 2/15/2023        | 67                  | 93         |

\*Based on construction schedule provided by the Applicant.

\*\*Assumes duration is 8.7 percent of total Multi-Use Structure phase based on ratio of CalEEMod building construction and architectural coating default durations

Construction Trips Worksheet

| Phase Name                                       | Daily Worker Trip | Daily Vendor Trip | Daily Truck Haul | Total Truck Haul | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Phase Start Date | Phase End Date | Num Days |
|--------------------------------------------------|-------------------|-------------------|------------------|------------------|--------------------|--------------------|---------------------|------------------|----------------|----------|
|                                                  | Number            | Number            | Trips            | Trips            |                    |                    |                     |                  |                |          |
| Building Demolition                              | 40                | 4                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2019/12/01       | 2019/12/27     | 20       |
| Building Demo Debris Haul                        | 3                 | 0                 | 123              | 2,089            | 14.7               | 6.9                | 30                  | 2019/12/05       | 2019/12/27     | 17       |
| Asphalt Demolition                               | 8                 | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2019/12/24       | 2019/12/26     | 3        |
| Asphalt Demo Debris Haul                         | 3                 | 0                 | 51               | 153              | 14.7               | 6.9                | 4.7                 | 2019/12/24       | 2019/12/26     | 3        |
| Site Preparation                                 | 18                | 2                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2019/12/26       | 2019/12/26     | 1        |
| Rough Grading                                    | 16                | 2                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2019/12/29       | 2020/01/01     | 3        |
| Rough Grading Soil Haul                          | 3                 | 0                 | 538              | 1,614            | 14.7               | 6.9                | 20                  | 2020/01/01       | 2020/01/03     | 3        |
| Fine Grading                                     | 6                 | 2                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/01/01       | 2020/01/13     | 9        |
| Parking Structure Excavation/Shoring/Hauling     | 20                | 2                 | 88               | 875              | 14.7               | 6.9                | 20                  | 2020/01/05       | 2020/01/17     | 10       |
| Wet Utility Installation                         | 34                | 4                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/01/09       | 2020/03/05     | 41       |
| Multi-Use Structure                              | 120               | 85                | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/02/19       | 2023/01/27     | 768      |
| Structural Concrete                              | 40                | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/02/19       | 2020/12/07     | 209      |
| Dry Utility Installation                         | 18                | 2                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/03/02       | 2020/03/13     | 10       |
| Street Improvements - Balancing / Aggregate Base | 16                | 2                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/03/16       | 2020/03/20     | 5        |
| Street Improvements - Curb & Gutter              | 18                | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/03/23       | 2020/03/27     | 5        |
| Asphalt Paving                                   | 12                | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/04/01       | 2020/04/02     | 2        |
| Street Improvements - Concrete Flatwork          | 16                | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2020/04/05       | 2020/04/20     | 11       |
| Architecural Coating                             | 24                | 0                 | 0                | 0                | 14.7               | 6.9                | 20                  | 2022/10/27       | 2023/01/27     | 67       |

Total Duration 38 Months

| Maximum Daily Construction Trips                                                                                        |                             |                             |                           |                                   |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------|---------------------------|-----------------------------------|
| Phase Name                                                                                                              | Daily Worker Trip<br>Number | Daily Vendor Trip<br>Number | Daily Truck Haul<br>Trips | Total Daily<br>Construction Trips |
| Demolition Phase                                                                                                        | 40                          | 4                           | 0                         | 44                                |
| Overlap of Demolition and Building Demolition Debris Haul Phases                                                        | 43                          | 4                           | 123                       | 170                               |
| Overlap of Demolition, Building Demolition Debris Haul, and Asphalt Demolition Debris Haul Phases                       | 54                          | 4                           | 174                       | 232                               |
| Overlap of the Demolition, Building Demolition Debris Haul, Asphalt Demolition Debris Haul, and Site Preparation Phases | 72                          | 6                           | 174                       | 252                               |
| Rough Grading Phase                                                                                                     | 16                          | 2                           | 0                         | 18                                |
| Overlap of the Rough Grading and Rough Grading Soil Haul Phases                                                         | 19                          | 2                           | 538                       | 559                               |
| <b>Overlap of the Rough Grading, Rough Grading Soil Haul, and Fine Grading Phases</b>                                   | <b>25</b>                   | <b>4</b>                    | <b>538</b>                | <b>567</b>                        |
| Overlap of the Rough Grading Soil Haul and Fine Grading Phases                                                          | 9                           | 2                           | 538                       | 549                               |
| Fine Grading Phase                                                                                                      | 6                           | 2                           | 0                         | 8                                 |
| Overlap of the Fine Grading and Parking Structure Excavation/Shoring/Hauling Phases                                     | 26                          | 4                           | 88                        | 118                               |
| Overlap of the Fine Grading, Parking Structure Excavation/Shoring/Hauling, and Wet Utilities Phases                     | 60                          | 8                           | 88                        | 156                               |
| Overlap of the Parking Structure Excavation/Shoring/Hauling and Wet Utilities Phases                                    | 54                          | 6                           | 88                        | 148                               |
| Wet Utilities Phase                                                                                                     | 34                          | 4                           | 0                         | 38                                |
| Overlap of the Wet Utilities, Multi-Use Structure, and Structural Concrete Phases                                       | 194                         | 89                          | 0                         | 283                               |
| Overlap of the Wet Utilities, Multi-Use Structure, Structural Concrete, and Dry Utilities Phases                        | 212                         | 91                          | 0                         | 303                               |
| Overlap of the Multi-Use Structure, and Structural Concrete, and Dry Utilities Phases                                   | 178                         | 87                          | 0                         | 265                               |
| Overlap of the Multi-Use Structure and Structural Concrete Phases                                                       | 160                         | 85                          | 0                         | 245                               |
| Overlap of the Multi-Use Structure, Structural Concrete, and Street Improvements – Balancing/Aggregate Base Phases      | 176                         | 87                          | 0                         | 263                               |
| Overlap of the Multi-Use Structure, Structural Concrete, and Street Improvements – Curb & Gutter Phases                 | 178                         | 85                          | 0                         | 263                               |
| Overlap of the Multi-Use Structure, Structural Concrete, and Asphalt Paving Phases                                      | 172                         | 85                          | 0                         | 257                               |
| Overlap of the Multi-Use Structure, Structural Concrete, and Street Improvements – Concrete Flatwork Phases             | 176                         | 85                          | 0                         | 261                               |
| Multi-Use Structure Phase                                                                                               | 120                         | 85                          | 0                         | 205                               |
| Overlap of the Multi-Use Structure and Architectural Coating Phases                                                     | 144                         | 85                          | 0                         | 229                               |
|                                                                                                                         |                             |                             | <b>Max Daily</b>          | <b>567</b>                        |

CalEEMod Construction Off-Road Equipment Inputs\*

\*Based on information provided by the Applicant unless otherwise noted.

| Equipment Type                                          | CalEEMod Equipment Type | Unit Amount | Hours/Day | HP   | LF*    | Worker Trips   | CalEEMod Vendor Trips |
|---------------------------------------------------------|-------------------------|-------------|-----------|------|--------|----------------|-----------------------|
| <b>Building Demolition</b>                              |                         |             |           |      |        | <b>40</b>      | <b>Default+4</b>      |
| Cat 246 Skid Steer Loader                               | Skid Steer Loader       | 1           | 8         | 74.3 | 0.37   |                |                       |
| Cat 966G Loader                                         | Tractor/Loader/Backhoe  | 2           | 8         | 260  | 0.37   |                |                       |
| Cat 336EL Excavator w/10,000 lbs Breaker                | Excavator               | 3           | 8         | 300  | 0.38   |                |                       |
| Cat D-8R Dozer                                          | Rubber Tired Dozer      | 3           | 8         | 365  | 0.4    |                |                       |
| Ford F750 2000 Gallon Water Truck V8                    |                         | 2           | 8         | 270  |        |                | 4                     |
| <b>Building Demolition Debris Haul</b>                  |                         |             |           |      |        | <b>40</b>      | <b>Default</b>        |
| Cat 336EL Excavator w/ Demo Grapple                     | Excavator               | 1           | 8         | 300  | 0.38   |                |                       |
| <b>Asphalt Demolition</b>                               |                         |             |           |      |        | <b>8</b>       | <b>Default</b>        |
| No additional equipment                                 |                         |             |           |      |        |                |                       |
| <b>Asphalt Demolition Debris Haul</b>                   |                         |             |           |      |        | <b>90</b>      | <b>Default</b>        |
| Cat 336EL Excavator w/ Demo Grapple                     | Excavator               | 1           | 8         | 300  | 0.38   |                |                       |
| <b>Site Preparation</b>                                 |                         |             |           |      |        | <b>18</b>      | <b>Default+2</b>      |
| Cat D-8R Dozer                                          | Rubber Tired Dozer      | 1           | 8         | 365  | 0.4    |                |                       |
| Cat 966G Loader                                         | Tractor/Loader/Backhoe  | 2           | 8         | 260  | 0.37   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 1           | 8         | 270  |        |                | 2                     |
| <b>Rough Grading</b>                                    |                         |             |           |      |        | <b>16</b>      | <b>Default+2</b>      |
| Cat 623K Motor Scraper                                  | Scraper                 | 1           | 8         | 407  | 0.48   |                |                       |
| Cat D-6T Dozer                                          | Rubber Tired Dozer      | 1           | 8         | 257  | 0.4    |                |                       |
| Cat 834K Rubber Tire Dozer                              | Rubber Tired Dozer      | 1           | 8         | 562  | 0.4    |                |                       |
| Cat 14M3 Blade (Motor Grader)                           | Grader                  | 1           | 8         | 238  | 0.41   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 1           | 8         | 270  |        |                | 2                     |
| <b>Rough Grading Soil Haul</b>                          |                         |             |           |      |        | <b>Default</b> | <b>Default</b>        |
| Cat 336EL Excavator w/ Demo Grapple                     | Excavator               | 1           | 8         | 300  | 0.38   |                |                       |
| <b>Fine Grading</b>                                     |                         |             |           |      |        | <b>6</b>       | <b>Default+2</b>      |
| Cat 14M3 Blade (Motor Grader)                           | Grader                  | 1           | 8         | 238  | 0.41   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 1           | 8         | 270  |        |                | 2                     |
| <b>Parking Structure Excavation/Shoring</b>             |                         |             |           |      |        | <b>20</b>      | <b>Default+2</b>      |
| CAT 345 Excavator                                       | Excavator               | 1           | 8         | 238  |        |                |                       |
| Drill Rig                                               | Drill Rig               | 1           | 8         | 221  | 0.5025 |                |                       |
| Mobile Crane                                            | Crane                   | 1           | 8         | 231  | 0.2881 |                |                       |
| CAT Backhoe                                             | Tractor/Loader/Backhoe  | 1           | 8         | 407  | 0.37   |                |                       |
| Water Truck**                                           |                         | 1           | 8         |      |        |                | 2                     |
| <b>Wet Utilities</b>                                    |                         |             |           |      |        | <b>34</b>      | <b>Default+4</b>      |
| Cat 336EL Excavator                                     | Excavator               | 2           | 8         | 300  |        |                |                       |
| Cat 950K Loader                                         | Tractor/Loader/Backhoe  | 2           | 8         | 230  | 0.37   |                |                       |
| Cat 414EL Skip Loader                                   | Tractor/Loader/Backhoe  | 1           | 8         | 93   | 0.37   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 2           | 8         | 270  |        |                | 4                     |
| <b>Multi-Use Structure</b>                              |                         |             |           |      |        | <b>120</b>     | <b>Default</b>        |
| Extended Forklift                                       | Rough Terrain Forklift  | 2           | 8         | 238  | 0.4    |                |                       |
| Forklift                                                | Forklift                | 2           | 8         | 173  | 0.2    |                |                       |
| Mobile Crane                                            | Crane                   | 1           | 8         | 110  | 0.29   |                |                       |
| Framing Crane                                           | Crane                   | 2           | 8         | 93   | 0.29   |                |                       |
| <b>Structural Concrete</b>                              |                         |             |           |      |        | <b>40</b>      | <b>Default</b>        |
| Mobile Crane                                            | Crane                   | 1           | 8         | 231  | 0.29   |                |                       |
| Concrete Pump Truck                                     | Cement Mortar Mixer     | 1           | 8         | 9    | 0.56   |                |                       |
| Extended Forklift                                       | Rough Terrain Forklift  | 2           | 8         | 100  | 0.4    |                |                       |
| Cat 414EL Skip Loader                                   | Tractor/Loader/Backhoe  | 2           | 8         | 93   | 0.37   |                |                       |
| <b>Dry Utilities</b>                                    |                         |             |           |      |        | <b>18</b>      | <b>Default+2</b>      |
| Cat 450F Backhoe                                        | Tractor/Loader/Backhoe  | 1           | 8         | 127  | 0.37   |                |                       |
| Cat 950K Loader                                         | Tractor/Loader/Backhoe  | 1           | 8         | 230  | 0.37   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 1           | 8         | 270  |        |                | 2                     |
| <b>Street Improvements - Balancing / Aggregate Base</b> |                         |             |           |      |        | <b>16</b>      | <b>Default+2</b>      |
| Cat 14M3 Blade (Motor Grader)                           | Grader                  | 1           | 8         | 238  | 0.41   |                |                       |
| Cat 623K Motor Scraper                                  | Scraper                 | 1           | 8         | 407  | 0.48   |                |                       |
| Cat 414EL Skip Loader                                   | Tractor/Loader/Backhoe  | 1           | 8         | 93   | 0.37   |                |                       |
| Cat CB44B Vibratory Roller                              | Roller                  | 1           | 8         | 110  | 0.38   |                |                       |
| Ford F750 2000 Gallon Water Truck                       |                         | 1           | 8         | 270  |        |                | 2                     |
| <b>Street Improvements - Curb &amp; Gutter</b>          |                         |             |           |      |        | <b>18</b>      | <b>Default</b>        |
| No equipment                                            | Grader                  |             |           |      |        |                |                       |
| <b>Asphalt Paving</b>                                   |                         |             |           |      |        | <b>12</b>      | <b>Default</b>        |
| Cat 14M3 Blade (Motor Grader)                           | Grader                  | 1           | 8         | 238  | 0.41   |                |                       |
| Cat AP655F Paving Machine                               | Paver                   | 1           | 8         | 173  | 0.42   |                |                       |
| Cat CB44B Vibratory Roller                              | Roller                  | 1           | 8         | 110  | 0.38   |                |                       |
| <b>Street Improvements - Concrete Flatwork</b>          |                         |             |           |      |        | <b>16</b>      | <b>Default</b>        |
| Cat 414EL Skip Loader                                   | Tractor/Loader/Backhoe  | 1           | 8         | 93   | 0.37   |                |                       |
| <b>Architectural Coating</b>                            |                         |             |           |      |        | <b>Default</b> | <b>Default</b>        |
|                                                         | Air Compressor          | 1           | 8         | 78   | 0.48   |                |                       |

\*CalEEMod default.

\*\*Assumes use of one water truck and two trips per truck.

## Regional Construction Emissions Worksheet

\*CalEEMod, Version 2016.3.2

### Building/Asphalt Demolition

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 0             | 0             |
|              | Off-Road           | 6.1939        | 67.449         | 49.6748        | 0.0864          | 2.8698        | 2.6402        |
|              | Total              | <b>6.1939</b> | <b>67.449</b>  | <b>49.6748</b> | <b>0.0864</b>   | <b>2.8698</b> | <b>2.6402</b> |
| Offsite      | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.015         | 0.4539         | 0.12           | 1.00E-03        | 0.027         | 9.89E-03      |
|              | Worker             | 0.1649        | 0.1081         | 1.427          | 4.52E-03        | 0.4151        | 0.1127        |
|              | Total              | <b>0.1799</b> | <b>0.562</b>   | <b>1.547</b>   | <b>5.52E-03</b> | <b>0.4421</b> | <b>0.1226</b> |
| <b>TOTAL</b> |                    | <b>6.3738</b> | <b>68.0110</b> | <b>51.2218</b> | <b>0.0919</b>   | <b>3.3119</b> | <b>2.7628</b> |
| Onsite       | <b>2019 Winter</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 0             | 0             |
|              | Off-Road           | 6.1939        | 67.449         | 49.6748        | 0.0864          | 2.8698        | 2.6402        |
|              | Total              | <b>6.1939</b> | <b>67.449</b>  | <b>49.6748</b> | <b>0.0864</b>   | <b>2.8698</b> | <b>2.6402</b> |
| Offsite      | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.0156        | 0.4544         | 0.1317         | 9.80E-04        | 0.027         | 9.94E-03      |
|              | Worker             | 0.186         | 0.1188         | 1.3211         | 4.28E-03        | 0.4151        | 0.1127        |
|              | Total              | <b>0.2016</b> | <b>0.5732</b>  | <b>1.4529</b>  | <b>5.26E-03</b> | <b>0.4422</b> | <b>0.1227</b> |
| <b>TOTAL</b> |                    | <b>6.3955</b> | <b>68.0222</b> | <b>51.1277</b> | <b>0.0917</b>   | <b>3.3120</b> | <b>2.7629</b> |
| Onsite       | <b>2019</b>        |               |                |                |                 |               |               |
|              | Off-Road           | 6.1939        | 67.449         | 49.6748        | 0.0864          | 2.8698        | 2.6402        |
|              | Total              | <b>6.1939</b> | <b>67.449</b>  | <b>49.6748</b> | <b>0.0864</b>   | <b>2.8698</b> | <b>2.6402</b> |
| Offsite      | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.0156        | 0.4544         | 0.1317         | 0.001           | 0.027         | 0.00994       |
|              | Worker             | 0.186         | 0.1188         | 1.427          | 0.00452         | 0.4151        | 0.1127        |
|              | Total              | <b>0.2016</b> | <b>0.5732</b>  | <b>1.547</b>   | <b>0.00552</b>  | <b>0.4422</b> | <b>0.1227</b> |
| <b>TOTAL</b> |                    | <b>6.3955</b> | <b>68.0222</b> | <b>51.2218</b> | <b>0.0919</b>   | <b>3.3120</b> | <b>2.7629</b> |

### Building Demolition Debris Haul

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 4.5202        | 0.6844        |
|              | Off-Road           | 0.3259        | 3.5786         | 2.2388         | 9.78E-03        | 0.1162        | 0.1069        |
|              | Total              | <b>0.3259</b> | <b>3.5786</b>  | <b>2.2388</b>  | <b>9.78E-03</b> | <b>4.6364</b> | <b>0.7913</b> |
| Offsite      | Hauling            | 1.4237        | 48.7649        | 12.244         | 0.1374          | 3.1944        | 1.0208        |
|              | Vendor             | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Worker             | 0.0124        | 8.11E-03       | 0.107          | 3.40E-04        | 0.0311        | 8.46E-03      |
|              | Total              | <b>1.436</b>  | <b>48.773</b>  | <b>12.3511</b> | <b>0.1378</b>   | <b>3.2255</b> | <b>1.0293</b> |
| <b>TOTAL</b> |                    | <b>1.7619</b> | <b>52.3516</b> | <b>14.5899</b> | <b>0.1476</b>   | <b>7.8619</b> | <b>1.8206</b> |

|                               |               |             |          |         |          |        |          |
|-------------------------------|---------------|-------------|----------|---------|----------|--------|----------|
| Onsite                        |               | 2019 Winter |          |         |          |        |          |
|                               | Fugitive Dust |             |          |         |          | 4.5202 | 0.6844   |
|                               | Off-Road      | 0.3259      | 3.5786   | 2.2388  | 9.78E-03 | 0.1162 | 0.1069   |
|                               | Total         | 0.3259      | 3.5786   | 2.2388  | 9.78E-03 | 4.6364 | 0.7913   |
| Offsite                       |               |             |          |         |          |        |          |
|                               | Hauling       | 1.4503      | 49.7123  | 12.7346 | 0.136    | 3.1975 | 1.0238   |
|                               | Vendor        | 0           | 0        | 0       | 0        | 0      | 0        |
|                               | Worker        | 0.014       | 8.91E-03 | 0.0991  | 3.20E-04 | 0.0311 | 8.46E-03 |
|                               | Total         | 1.4643      | 49.7213  | 12.8337 | 0.1363   | 3.2286 | 1.0323   |
| TOTAL                         |               | 1.7902      | 53.2999  | 15.0725 | 0.1461   | 7.8650 | 1.8236   |
|                               |               |             |          |         |          |        |          |
| Onsite                        |               | 2019        |          |         |          |        |          |
|                               | Off-Road      | 0.3259      | 3.5786   | 2.2388  | 0.00978  | 0.1162 | 0.1069   |
|                               | Total         | 0.3259      | 3.5786   | 2.2388  | 0.00978  | 4.6364 | 0.7913   |
| Offsite                       |               |             |          |         |          |        |          |
|                               | Hauling       | 1.4503      | 49.7123  | 12.7346 | 0.1374   | 3.1975 | 1.0238   |
|                               | Vendor        | 0           | 0        | 0       | 0        | 0      | 0        |
|                               | Worker        | 0.014       | 0.00891  | 0.107   | 0.00034  | 0.0311 | 0.00846  |
|                               | Total         | 1.4643      | 49.7213  | 12.8337 | 0.1378   | 3.2286 | 1.0323   |
| TOTAL                         |               | 1.7902      | 53.2999  | 15.0725 | 0.1476   | 7.8650 | 1.8236   |
|                               |               |             |          |         |          |        |          |
| Demolition+Building Demo Haul |               | 8.19        | 121.32   | 66.29   | 0.24     | 11.18  | 4.59     |

| Asphalt Demolition Workers |               |             |        |        |          |            |             |
|----------------------------|---------------|-------------|--------|--------|----------|------------|-------------|
|                            |               | ROG         | NOx    | CO     | SO2      | PM10 Total | PM2.5 Total |
| Onsite                     |               | 2019 Summer |        |        |          |            |             |
|                            | Fugitive Dust |             |        |        |          |            |             |
|                            | Off-Road      | 0           | 0      | 0      | 0        | 0          | 0           |
|                            | Total         | 0           | 0      | 0      | 0        | 0          | 0           |
| Offsite                    |               |             |        |        |          |            |             |
|                            | Hauling       |             |        |        |          |            |             |
|                            | Vendor        |             |        |        |          |            |             |
|                            | Worker        |             |        |        |          |            |             |
|                            | Total         |             |        |        |          |            |             |
| TOTAL                      |               | 0.0000      | 0.0000 | 0.0000 | 0.0000   | 0.0000     | 0.0000      |
| Onsite                     |               | 2019 Winter |        |        |          |            |             |
|                            | Fugitive Dust |             |        |        |          |            |             |
|                            | Off-Road      | 0           | 0      | 0      | 0        | 0          | 0           |
|                            | Total         | 0           | 0      | 0      | 0        | 0          | 0           |
| Offsite                    |               |             |        |        |          |            |             |
|                            | Hauling       | 0           | 0      | 0      | 0        | 0          | 0           |
|                            | Vendor        | 0           | 0      | 0      | 0.00E+00 | 0          | 0.00E+00    |
|                            | Worker        | 0.0372      | 0.0238 | 0.2642 | 8.60E-04 | 0.083      | 0.0226      |
|                            | Total         | 0.0372      | 0.0238 | 0.2642 | 8.60E-04 | 0.083      | 0.0226      |
| TOTAL                      |               | 0.0372      | 0.0238 | 0.2642 | 0.0009   | 0.0830     | 0.0226      |

|              |          |             |               |               |               |                |               |
|--------------|----------|-------------|---------------|---------------|---------------|----------------|---------------|
| Onsite       |          | <b>2019</b> |               |               |               |                |               |
|              | Off-Road |             | 0             | 0             | 0             | 0              | 0             |
|              | Total    |             | <b>0</b>      | <b>0</b>      | <b>0</b>      | <b>0</b>       | <b>0</b>      |
| Offsite      |          |             |               |               |               |                |               |
|              | Hauling  |             | 0             | 0             | 0             | 0              | 0             |
|              | Vendor   |             | 0             | 0             | 0             | 0              | 0             |
|              | Worker   |             | 0.0372        | 0.0238        | 0.2642        | 0.00086        | 0.083         |
|              | Total    |             | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>0.00086</b> | <b>0.083</b>  |
| <b>TOTAL</b> |          |             | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>0.0009</b>  | <b>0.0830</b> |
| <b>TOTAL</b> |          |             | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>0.0009</b>  | <b>0.0830</b> |

#### Asphalt Demolition Debris Haul

|                                                               |               |                    | ROG           | NOx            | CO            | SO2             | PM10 Total     | PM2.5 Total   |
|---------------------------------------------------------------|---------------|--------------------|---------------|----------------|---------------|-----------------|----------------|---------------|
| Onsite                                                        |               | <b>2019 Summer</b> |               |                |               |                 |                |               |
|                                                               | Fugitive Dust |                    |               |                |               |                 | 12.1974        | 1.8468        |
|                                                               | Off-Road      |                    | 0.3259        | 3.5786         | 2.2388        | 9.78E-03        | 0.1162         | 0.1069        |
|                                                               | Total         |                    | <b>0.3259</b> | <b>3.5786</b>  | <b>2.2388</b> | <b>9.78E-03</b> | <b>12.3136</b> | <b>1.9537</b> |
| Offsite                                                       |               |                    |               |                |               |                 |                |               |
|                                                               | Hauling       |                    | 0.1685        | 7.2809         | 1.394         | 0.0129          | 0.2117         | 0.0697        |
|                                                               | Vendor        |                    | 0             | 0              | 0             | 0               | 0              | 0             |
|                                                               | Worker        |                    | 0.0124        | 8.11E-03       | 0.107         | 3.40E-04        | 0.0311         | 8.46E-03      |
|                                                               | Total         |                    | <b>0.1809</b> | <b>7.289</b>   | <b>1.5011</b> | <b>0.0132</b>   | <b>0.2428</b>  | <b>0.0781</b> |
| <b>TOTAL</b>                                                  |               |                    | <b>0.5068</b> | <b>10.8676</b> | <b>3.7399</b> | <b>0.0230</b>   | <b>12.5564</b> | <b>2.0318</b> |
| Onsite                                                        |               | <b>2019 Winter</b> |               |                |               |                 |                |               |
|                                                               | Fugitive Dust |                    |               |                |               |                 | 12.1974        | 1.8468        |
|                                                               | Off-Road      |                    | 0.3259        | 3.5786         | 2.2388        | 9.78E-03        | 0.1162         | 0.1069        |
|                                                               | Total         |                    | <b>0.3259</b> | <b>3.5786</b>  | <b>2.2388</b> | <b>9.78E-03</b> | <b>12.3136</b> | <b>1.9537</b> |
| Offsite                                                       |               |                    |               |                |               |                 |                |               |
|                                                               | Hauling       |                    | 0.1797        | 7.182          | 1.6203        | 0.0123          | 0.213          | 0.0709        |
|                                                               | Vendor        |                    | 0             | 0              | 0             | 0               | 0              | 0             |
|                                                               | Worker        |                    | 0.014         | 8.91E-03       | 0.0991        | 3.20E-04        | 0.0311         | 8.46E-03      |
|                                                               | Total         |                    | <b>0.1937</b> | <b>7.1909</b>  | <b>1.7194</b> | <b>0.0126</b>   | <b>0.2441</b>  | <b>0.0794</b> |
| <b>TOTAL</b>                                                  |               |                    | <b>0.5196</b> | <b>10.7695</b> | <b>3.9582</b> | <b>0.0224</b>   | <b>12.5577</b> | <b>2.0331</b> |
| Onsite                                                        |               | <b>2019</b>        |               |                |               |                 |                |               |
|                                                               | Off-Road      |                    | 0.3259        | 3.5786         | 2.2388        | 0.00978         | 0.1162         | 0.1069        |
|                                                               | Total         |                    | <b>0.3259</b> | <b>3.5786</b>  | <b>2.2388</b> | <b>0.00978</b>  | <b>12.3136</b> | <b>1.9537</b> |
| Offsite                                                       |               |                    |               |                |               |                 |                |               |
|                                                               | Hauling       |                    | 0.1797        | 7.2809         | 1.6203        | 0.0129          | 0.213          | 0.0709        |
|                                                               | Vendor        |                    | 0             | 0              | 0             | 0               | 0              | 0             |
|                                                               | Worker        |                    | 0.014         | 0.00891        | 0.107         | 0.00034         | 0.0311         | 0.00846       |
|                                                               | Total         |                    | <b>0.1937</b> | <b>7.289</b>   | <b>1.7194</b> | <b>0.0132</b>   | <b>0.2441</b>  | <b>0.0794</b> |
| <b>TOTAL</b>                                                  |               |                    | <b>0.5196</b> | <b>10.8676</b> | <b>3.9582</b> | <b>0.0230</b>   | <b>12.5577</b> | <b>2.0331</b> |
| <b>Demolition+Building Demo Haul &amp; Asphalt Demo +Haul</b> |               |                    | <b>8.74</b>   | <b>132.21</b>  | <b>70.52</b>  | <b>0.26</b>     | <b>23.82</b>   | <b>6.64</b>   |

| Site Preparation                                                         |               |               |                |                |               |                        |
|--------------------------------------------------------------------------|---------------|---------------|----------------|----------------|---------------|------------------------|
|                                                                          |               | ROG           | NOx            | CO             | SO2           | PM10 Total PM2.5 Total |
| Onsite                                                                   | 2019 Summer   |               |                |                |               |                        |
|                                                                          | Fugitive Dust |               |                |                |               | 2.5744 1.4151          |
|                                                                          | Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 1.0051 0.9247          |
|                                                                          | Total         | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 3.5796 2.3399          |
| Offsite                                                                  |               |               |                |                |               |                        |
|                                                                          | Hauling       | 0             | 0              | 0              | 0             | 0 0                    |
|                                                                          | Vendor        | 7.50E-03      | 0.227          | 0.06           | 5.00E-04      | 0.0135 4.94E-03        |
|                                                                          | Worker        | 0.0742        | 0.0486         | 0.6421         | 2.03E-03      | 0.1868 0.0507          |
|                                                                          | Total         | 0.0817        | 0.2756         | 0.7021         | 2.53E-03      | 0.2003 0.0557          |
| <b>TOTAL</b>                                                             |               | <b>2.2540</b> | <b>24.0507</b> | <b>17.6295</b> | <b>0.0317</b> | <b>3.7799 2.3956</b>   |
| Onsite                                                                   | 2019 Winter   |               |                |                |               |                        |
|                                                                          | Fugitive Dust |               |                |                |               | 2.5744 1.4151          |
|                                                                          | Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 1.0051 0.9247          |
|                                                                          | Total         | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 3.5796 2.3399          |
| Offsite                                                                  |               |               |                |                |               |                        |
|                                                                          | Hauling       | 0             | 0              | 0              | 0             | 0 0                    |
|                                                                          | Vendor        | 7.82E-03      | 0.2272         | 0.0659         | 4.90E-04      | 0.0135 4.97E-03        |
|                                                                          | Worker        | 0.0837        | 0.0535         | 0.5945         | 1.92E-03      | 0.1868 0.0507          |
|                                                                          | Total         | 0.0915        | 0.2807         | 0.6604         | 2.41E-03      | 0.2003 0.0557          |
| <b>TOTAL</b>                                                             |               | <b>2.2638</b> | <b>24.0558</b> | <b>17.5878</b> | <b>0.0316</b> | <b>3.7799 2.3956</b>   |
| Onsite                                                                   | 2019          |               |                |                |               |                        |
|                                                                          | Fugitive Dust | 0             | 0              | 0              | 0             | 2.5744 1.4151          |
|                                                                          | Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 1.0051 0.9247          |
|                                                                          | Total         | 2.1723        | 23.7751        | 16.9274        | 0.0292        | 3.5796 2.3399          |
| Offsite                                                                  |               |               |                |                |               |                        |
|                                                                          | Hauling       | 0             | 0              | 0              | 0             | 0 0                    |
|                                                                          | Vendor        | 0.00782       | 0.2272         | 0.0659         | 0.0005        | 0.0135 0.00497         |
|                                                                          | Worker        | 0.0837        | 0.0535         | 0.6421         | 0.00203       | 0.1868 0.0507          |
|                                                                          | Total         | 0.0915        | 0.2807         | 0.7021         | 0.00253       | 0.2003 0.0557          |
| <b>TOTAL</b>                                                             |               | <b>2.2638</b> | <b>24.0558</b> | <b>17.6295</b> | <b>0.0317</b> | <b>3.7799 2.3956</b>   |
| <b>Demolition+Building Demo Haul, Asphalt Demo+Haul, &amp; Site Prep</b> |               | <b>11.01</b>  | <b>156.27</b>  | <b>88.15</b>   | <b>0.30</b>   | <b>27.60 9.04</b>      |

| Rough Grading |               |               |                |                |               |                        |
|---------------|---------------|---------------|----------------|----------------|---------------|------------------------|
|               |               | ROG           | NOx            | CO             | SO2           | PM10 Total PM2.5 Total |
| Onsite        | 2019 Summer   |               |                |                |               |                        |
|               | Fugitive Dust |               |                |                |               | 3.2545 1.4886          |
|               | Off-Road      | 4.6408        | 58.1082        | 30.1801        | 0.0536        | 2.2074 2.0308          |
|               | Total         | 4.6408        | 58.1082        | 30.1801        | 0.0536        | 5.4619 3.5194          |
| Offsite       |               |               |                |                |               |                        |
|               | Hauling       | 0             | 0              | 0              | 0             | 0 0                    |
|               | Vendor        | 7.50E-03      | 0.227          | 0.06           | 5.00E-04      | 0.0135 4.94E-03        |
|               | Worker        | 0.0659        | 0.0432         | 0.5708         | 1.81E-03      | 0.166 0.0451           |
|               | Total         | 0.0734        | 0.2702         | 0.6308         | 2.31E-03      | 0.1795 0.05            |
| <b>TOTAL</b>  |               | <b>4.7142</b> | <b>58.3784</b> | <b>30.8109</b> | <b>0.0559</b> | <b>5.6414 3.5694</b>   |

Onsite

Fugitive Dust  
Off-Road  
Total

**2019 Winter**

|               |                |                |               |               |               |
|---------------|----------------|----------------|---------------|---------------|---------------|
|               |                |                |               | 3.2545        | 1.4886        |
| 4.6408        | 58.1082        | 30.1801        | 0.0536        | 2.2074        | 2.0308        |
| <b>4.6408</b> | <b>58.1082</b> | <b>30.1801</b> | <b>0.0536</b> | <b>5.4619</b> | <b>3.5194</b> |

Offsite

Hauling  
Vendor  
Worker  
Total

|               |               |               |                 |               |               |
|---------------|---------------|---------------|-----------------|---------------|---------------|
| 0             | 0             | 0             | 0               | 0             | 0             |
| 7.82E-03      | 0.2272        | 0.0659        | 4.90E-04        | 0.0135        | 4.97E-03      |
| 0.0744        | 0.0475        | 0.5285        | 1.71E-03        | 0.166         | 0.0451        |
| <b>0.0822</b> | <b>0.2747</b> | <b>0.5943</b> | <b>2.20E-03</b> | <b>0.1796</b> | <b>0.0501</b> |

**TOTAL**

**4.7230 58.3829 30.7744 0.0558 5.6415 3.5695**

Onsite

Fugitive Dust  
Off-Road  
Total

**2019**

0 0 0 0 3.2545 1.4886  
4.6408 58.1082 30.1801 0.0536 2.2074 2.0308  
**4.6408 58.1082 30.1801 0.0536 5.4619 3.5194**

Offsite

Hauling  
Vendor  
Worker  
Total

0 0 0 0 0 0  
0.00782 0.2272 0.0659 0.0005 0.0135 0.00497  
0.0744 0.0475 0.5708 0.00181 0.166 0.0451  
**0.0822 0.2747 0.6308 0.00231 0.1796 0.0501**

**TOTAL**

**4.7230 58.3829 30.8109 0.0559 5.6415 3.5695**

| ROG | NOx | CO | SO2 | PM10 Total | PM2.5 Total |
|-----|-----|----|-----|------------|-------------|
|-----|-----|----|-----|------------|-------------|

Onsite

Fugitive Dust  
Off-Road  
Total

**2020 Summer**

|               |                |                |               |               |               |
|---------------|----------------|----------------|---------------|---------------|---------------|
|               |                |                |               | 3.2545        | 1.4886        |
| 4.4865        | 55.5857        | 28.8917        | 0.0536        | 2.1004        | 1.9324        |
| <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>5.3549</b> | <b>3.4209</b> |

Offsite

Hauling  
Vendor  
Worker  
Total

|               |               |               |                 |               |               |
|---------------|---------------|---------------|-----------------|---------------|---------------|
| 0             | 0             | 0             | 0               | 0             | 0             |
| 6.39E-03      | 0.2084        | 0.055         | 5.00E-04        | 0.013         | 4.52E-03      |
| 0.0615        | 0.0387        | 0.5237        | 1.75E-03        | 0.166         | 0.0451        |
| <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.25E-03</b> | <b>0.1791</b> | <b>0.0496</b> |

**TOTAL**

**4.5544 55.8328 29.4704 0.0559 5.5340 3.4705**

Onsite

Fugitive Dust  
Off-Road  
Total

**2020 Winter**

|               |                |                |               |               |               |
|---------------|----------------|----------------|---------------|---------------|---------------|
|               |                |                |               | 3.2545        | 1.4886        |
| 4.4865        | 55.5857        | 28.8917        | 0.0536        | 2.1004        | 1.9324        |
| <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>5.3549</b> | <b>3.4209</b> |

Offsite

Hauling  
Vendor  
Worker  
Total

|               |               |               |                 |               |               |
|---------------|---------------|---------------|-----------------|---------------|---------------|
| 0             | 0             | 0             | 0               | 0             | 0             |
| 6.67E-03      | 0.2083        | 0.0603        | 4.90E-04        | 0.0131        | 4.53E-03      |
| 0.0695        | 0.0426        | 0.4841        | 1.66E-03        | 0.166         | 0.0451        |
| <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.15E-03</b> | <b>0.1791</b> | <b>0.0496</b> |

**TOTAL**

**4.5627 55.8366 29.4360 0.0558 5.5340 3.4705**

Onsite

Fugitive Dust  
Off-Road  
Total

**2020**

0 0 0 0 3.2545 1.4886  
4.4865 55.5857 28.8917 0.0536 2.1004 1.9324  
**4.4865 55.5857 28.8917 0.0536 5.3549 3.4209**

Offsite

Hauling  
Vendor  
Worker  
Total

0 0 0 0 0 0  
0.00667 0.2084 0.0603 0.0005 0.0131 0.00453  
0.0695 0.0426 0.5237 0.00175 0.166 0.0451  
**0.0762 0.2509 0.5787 0.00225 0.1791 0.0496**

**TOTAL**

**4.5627 55.8366 29.4704 0.0559 5.5340 3.4705**

| Rough Grading Haul        |                  |        |          |         |          |                        |
|---------------------------|------------------|--------|----------|---------|----------|------------------------|
|                           |                  | ROG    | NOx      | CO      | SO2      | PM10 Total PM2.5 Total |
| Onsite                    | 2019/2020 Summer |        |          |         |          |                        |
|                           | Fugitive Dust    |        |          |         |          | 0.00E+00 0.00E+00      |
|                           | Off-Road         | 0.3084 | 3.1607   | 2.2149  | 9.77E-03 | 0.1041 0.0958          |
|                           | Total            | 0.3084 | 3.1607   | 2.2149  | 9.77E-03 | 1.04E-01 9.58E-02      |
| Offsite                   | Hauling          | 4.0626 | 147.9334 | 37.379  | 0.4118   | 9.2063 2.8654          |
|                           | Vendor           | 0      | 0        | 0       | 0        | 0 0                    |
|                           | Worker           | 0.0115 | 7.26E-03 | 0.0982  | 3.30E-04 | 0.0311 8.45E-03        |
|                           | Total            | 4.0741 | 147.9407 | 37.4772 | 0.4121   | 9.2374 2.8739          |
| TOTAL                     |                  | 4.3825 | 151.1014 | 39.6921 | 0.4219   | 9.3415 2.9697          |
| Onsite                    | 2019/2020 Winter |        |          |         |          |                        |
|                           | Fugitive Dust    |        |          |         |          | 0.00E+00 0.00E+00      |
|                           | Off-Road         | 0.3084 | 3.1607   | 2.2149  | 9.77E-03 | 0.1041 0.0958          |
|                           | Total            | 0.3084 | 3.1607   | 2.2149  | 9.77E-03 | 1.04E-01 9.58E-02      |
| Offsite                   | Hauling          | 4.1636 | 149.7958 | 39.3554 | 0.4056   | 9.2151 2.8739          |
|                           | Vendor           | 0      | 0        | 0       | 0        | 0 0                    |
|                           | Worker           | 0.013  | 7.98E-03 | 0.0908  | 3.10E-04 | 0.0311 8.45E-03        |
|                           | Total            | 4.1767 | 149.8038 | 39.4462 | 0.4059   | 9.2462 2.8823          |
| TOTAL                     |                  | 4.4851 | 152.9645 | 41.6611 | 0.4157   | 9.3503 2.9781          |
| Onsite                    | 2019/2020        |        |          |         |          |                        |
|                           | Fugitive Dust    | 0      | 0        | 0       | 0        | 0 0                    |
|                           | Off-Road         | 0.3084 | 3.1607   | 2.2149  | 0.00977  | 0.1041 0.0958          |
|                           | Total            | 0.3084 | 3.1607   | 2.2149  | 0.00977  | 0.1041 0.0958          |
| Offsite                   | Hauling          | 4.1636 | 149.7958 | 39.3554 | 0.4118   | 9.2151 2.8739          |
|                           | Vendor           | 0      | 0        | 0       | 0        | 0 0                    |
|                           | Worker           | 0.013  | 0.00798  | 0.0982  | 0.00033  | 0.0311 0.00845         |
|                           | Total            | 4.1767 | 149.8038 | 39.4462 | 0.4121   | 9.2462 2.8823          |
| TOTAL                     |                  | 4.4851 | 152.9645 | 41.6611 | 0.4219   | 9.3503 2.9781          |
| Rough Grading+Haul (2019) |                  | 9.21   | 211.35   | 72.47   | 0.48     | 14.99 6.55             |
| Rough Grading+Haul (2020) |                  | 9.05   | 208.80   | 71.13   | 0.48     | 14.88 6.45             |

| Fine Grading                                                |               |               |               |               |               |                        |
|-------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|------------------------|
|                                                             |               | ROG           | NOx           | CO            | SO2           | PM10 Total PM2.5 Total |
| Onsite                                                      |               | 2020 Summer   |               |               |               |                        |
|                                                             | Fugitive Dust |               |               |               |               | 0.2267 0.0245          |
|                                                             | Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.44E-03      | 0.2574 0.2368          |
|                                                             | Total         | 0.6056        | 8.0507        | 2.3093        | 8.44E-03      | 0.4841 0.2613          |
| Offsite                                                     |               |               |               |               |               |                        |
|                                                             | Hauling       | 0             | 0             | 0             | 0             | 0 0                    |
|                                                             | Vendor        | 6.39E-03      | 0.2084        | 0.055         | 5.00E-04      | 0.013 4.52E-03         |
|                                                             | Worker        | 0.0231        | 0.0145        | 0.1964        | 6.60E-04      | 0.0623 0.0169          |
|                                                             | Total         | 0.0295        | 0.2229        | 0.2514        | 1.16E-03      | 0.0753 0.0214          |
| <b>TOTAL</b>                                                |               | <b>0.6351</b> | <b>8.2736</b> | <b>2.5607</b> | <b>0.0096</b> | <b>0.5594 0.2827</b>   |
| Onsite                                                      |               | 2020 Winter   |               |               |               |                        |
|                                                             | Fugitive Dust |               |               |               |               | 0.2267 0.0245          |
|                                                             | Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.44E-03      | 0.2574 0.2368          |
|                                                             | Total         | 0.6056        | 8.0507        | 2.3093        | 8.44E-03      | 0.4841 0.2613          |
| Offsite                                                     |               |               |               |               |               |                        |
|                                                             | Hauling       | 0             | 0             | 0             | 0             | 0 0                    |
|                                                             | Vendor        | 6.67E-03      | 0.2083        | 0.0603        | 4.90E-04      | 0.0131 4.53E-03        |
|                                                             | Worker        | 0.0261        | 0.016         | 0.1815        | 6.20E-04      | 0.0623 0.0169          |
|                                                             | Total         | 0.0327        | 0.2243        | 0.2418        | 1.11E-03      | 0.0753 0.0214          |
| <b>TOTAL</b>                                                |               | <b>0.6383</b> | <b>8.2750</b> | <b>2.5511</b> | <b>0.0096</b> | <b>0.5594 0.2827</b>   |
| Onsite                                                      |               | 2020          |               |               |               |                        |
|                                                             | Fugitive Dust | 0             | 0             | 0             | 0             | 0.2267 0.0245          |
|                                                             | Off-Road      | 0.6056        | 8.0507        | 2.3093        | 0.00844       | 0.2574 0.2368          |
|                                                             | Total         | 0.6056        | 8.0507        | 2.3093        | 0.00844       | 0.4841 0.2613          |
| Offsite                                                     |               |               |               |               |               |                        |
|                                                             | Hauling       | 0             | 0             | 0             | 0             | 0 0                    |
|                                                             | Vendor        | 0.00667       | 0.2084        | 0.0603        | 0.0005        | 0.0131 0.00453         |
|                                                             | Worker        | 0.0261        | 0.016         | 0.1964        | 0.00066       | 0.0623 0.0169          |
|                                                             | Total         | 0.0327        | 0.2243        | 0.2514        | 0.00116       | 0.0753 0.0214          |
| <b>TOTAL</b>                                                |               | <b>0.6383</b> | <b>8.2750</b> | <b>2.5607</b> | <b>0.0096</b> | <b>0.5594 0.2827</b>   |
| <b>Rough Grading, Rough Grading Haul &amp; Fine Grading</b> |               | <b>9.69</b>   | <b>217.08</b> | <b>73.69</b>  | <b>0.49</b>   | <b>15.44 6.73</b>      |
| <b>Rough Grading Haul &amp; Fine Grading</b>                |               | <b>5.12</b>   | <b>161.24</b> | <b>44.22</b>  | <b>0.43</b>   | <b>9.91 3.26</b>       |

| Parking Structure Excavation/Shoring/Hauling |               |               |                |                |               |                        |
|----------------------------------------------|---------------|---------------|----------------|----------------|---------------|------------------------|
|                                              |               | ROG           | NOx            | CO             | SO2           | PM10 Total PM2.5 Total |
| Onsite                                       |               | 2020 Summer   |                |                |               |                        |
|                                              | Fugitive Dust |               |                |                |               | 0 0                    |
|                                              | Off-Road      | 1.5283        | 17.6714        | 9.5863         | 0.0358        | 0.6156 0.5664          |
|                                              | Total         | 1.5283        | 17.6714        | 9.5863         | 0.0358        | 0.6156 0.5664          |
| Offsite                                      |               |               |                |                |               |                        |
|                                              | Hauling       | 0.6607        | 24.0598        | 6.0793         | 0.067         | 1.4973 0.466           |
|                                              | Vendor        | 6.39E-03      | 0.2084         | 0.055          | 5.00E-04      | 0.013 4.52E-03         |
|                                              | Worker        | 0.0769        | 0.0484         | 0.6547         | 2.19E-03      | 0.2075 0.0564          |
|                                              | Total         | 0.744         | 24.3166        | 6.7889         | 6.97E-02      | 1.7179 0.5269          |
| <b>TOTAL</b>                                 |               | <b>2.2723</b> | <b>41.9880</b> | <b>16.3752</b> | <b>0.1055</b> | <b>2.3335 1.0933</b>   |

|              |                    |               |                |                |                 |               |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|
| Onsite       | <b>2020 Winter</b> |               |                |                |                 |               |
|              | Fugitive Dust      |               |                |                | 0               | 0             |
|              | Off-Road           | 1.5283        | 17.6714        | 9.5863         | 0.0358          | 0.6156        |
|              | Total              | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b>  | <b>0.0358</b>   | <b>0.6156</b> |
| Offsite      | Hauling            | 0.6772        | 24.3627        | 6.4007         | 0.066           | 1.4987        |
|              | Vendor             | 6.67E-03      | 0.2083         | 0.0603         | 4.90E-04        | 0.0131        |
|              | Worker             | 0.0869        | 0.0532         | 0.6051         | 2.07E-03        | 0.2075        |
|              | Total              | <b>0.7707</b> | <b>24.6242</b> | <b>7.0661</b>  | <b>6.85E-02</b> | <b>1.7193</b> |
| <b>TOTAL</b> |                    | <b>2.2990</b> | <b>42.2956</b> | <b>16.6524</b> | <b>0.1043</b>   | <b>2.3349</b> |

|              |               |               |                |                |               |               |
|--------------|---------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b>   |               |                |                |               |               |
|              | Fugitive Dust | 0             | 0              | 0              | 0             | 0             |
|              | Off-Road      | 1.5283        | 17.6714        | 9.5863         | 0.0358        | 0.6156        |
|              | Total         | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b>  | <b>0.0358</b> | <b>0.6156</b> |
| Offsite      | Hauling       | 0.6772        | 24.3627        | 6.4007         | 0.067         | 1.4987        |
|              | Vendor        | 0.00667       | 0.2084         | 0.0603         | 0.0005        | 0.0131        |
|              | Worker        | 0.0869        | 0.0532         | 0.6547         | 0.00219       | 0.2075        |
|              | Total         | <b>0.7707</b> | <b>24.6242</b> | <b>7.0661</b>  | <b>0.0697</b> | <b>1.7193</b> |
| <b>TOTAL</b> |               | <b>2.2990</b> | <b>42.2956</b> | <b>16.6524</b> | <b>0.1055</b> | <b>2.3349</b> |

|                                           |  |             |              |              |             |             |             |
|-------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Fine Grade &amp; Parking Structure</b> |  | <b>2.94</b> | <b>50.57</b> | <b>19.21</b> | <b>0.12</b> | <b>2.89</b> | <b>1.38</b> |
|-------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|

| Wet Utility Trenching |     |     |    |     |            |             |
|-----------------------|-----|-----|----|-----|------------|-------------|
|                       | ROG | NOx | CO | SO2 | PM10 Total | PM2.5 Total |

|         |             |          |         |         |          |        |          |
|---------|-------------|----------|---------|---------|----------|--------|----------|
| Onsite  | 2020 Summer |          |         |         |          |        |          |
|         | Off-Road    | 1.4938   | 16.5585 | 10.2054 | 3.71E-02 | 0.6055 | 0.557    |
|         | Total       | 1.4938   | 16.5585 | 10.2054 | 3.71E-02 | 0.6055 | 0.557    |
| Offsite | Hauling     | 0        | 0       | 0       | 0        | 0      | 0        |
|         | Vendor      | 1.28E-02 | 0.4167  | 0.11    | 1.00E-03 | 0.0261 | 9.03E-03 |
|         | Worker      | 0.1307   | 0.0823  | 1.1129  | 3.72E-03 | 0.3528 | 0.0958   |
|         | Total       | 0.1434   | 0.499   | 1.2229  | 4.72E-03 | 0.3789 | 0.1048   |
|         | TOTAL       | 1.6372   | 17.0575 | 11.4283 | 0.0418   | 0.9844 | 0.6618   |

|         |          |             |         |         |          |        |          |
|---------|----------|-------------|---------|---------|----------|--------|----------|
| Onsite  |          | 2020 Winter |         |         |          |        |          |
|         | Off-Road | 1.4938      | 16.5585 | 10.2054 | 3.71E-02 | 0.6055 | 0.557    |
|         | Total    | 1.4938      | 16.5585 | 10.2054 | 3.71E-02 | 0.6055 | 0.557    |
| Offsite |          |             |         |         |          |        |          |
|         | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|         | Vendor   | 1.33E-02    | 0.4166  | 0.1206  | 9.70E-04 | 0.0261 | 9.07E-03 |
|         | Worker   | 0.1477      | 0.0905  | 1.0286  | 3.52E-03 | 0.3528 | 0.0958   |
|         | Total    | 0.161       | 0.507   | 1.1492  | 4.49E-03 | 0.379  | 0.1049   |
| TOTAL   |          | 1.6548      | 17.0655 | 11.3546 | 0.0416   | 0.9845 | 0.6619   |

|         |          |        |         |         |         |        |         |
|---------|----------|--------|---------|---------|---------|--------|---------|
| Onsite  | 2020     |        |         |         |         |        |         |
|         | Off-Road | 1.4938 | 16.5585 | 10.2054 | 0.0371  | 0.6055 | 0.557   |
|         | Total    | 1.4938 | 16.5585 | 10.2054 | 0.0371  | 0.6055 | 0.557   |
| Offsite |          |        |         |         |         |        |         |
|         | Hauling  | 0      | 0       | 0       | 0       | 0      | 0       |
|         | Vendor   | 0.0133 | 0.4167  | 0.1206  | 0.001   | 0.0261 | 0.00907 |
|         | Worker   | 0.1477 | 0.0905  | 1.1129  | 0.00372 | 0.3528 | 0.0958  |
|         | Total    | 0.161  | 0.507   | 1.2229  | 0.00472 | 0.379  | 0.1049  |
| TOTAL   |          | 1.6548 | 17.0655 | 11.4283 | 0.0418  | 0.9845 | 0.6619  |

|                                                             |             |              |              |             |             |             |
|-------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <i>Fine Grading, Parking Structure, &amp; Wet Utilities</i> | <i>4.59</i> | <i>67.64</i> | <i>30.64</i> | <i>0.16</i> | <i>3.88</i> | <i>2.04</i> |
|-------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|

|                                              |             |              |              |             |             |             |
|----------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <i>Parking Structure &amp; Wet Utilities</i> | <i>3.95</i> | <i>59.36</i> | <i>28.08</i> | <i>0.15</i> | <i>3.32</i> | <i>1.76</i> |
|----------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|

|                            |
|----------------------------|
| <b>Multi-Use Structure</b> |
|----------------------------|

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.8952        | 19.1157        | 13.5663        | 2.97E-02        | 1.0279        | 0.9457        |
|              | Total              | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>2.97E-02</b> | <b>1.0279</b> | <b>0.9457</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.72E-01      | 8.8551         | 2.3372         | 2.12E-02        | 0.5544        | 1.92E-01      |
|              | Worker             | 0.4612        | 0.2905         | 3.9279         | 1.31E-02        | 1.2452        | 0.3381        |
|              | Total              | <b>0.7327</b> | <b>9.1456</b>  | <b>6.2651</b>  | <b>3.43E-02</b> | <b>1.7996</b> | <b>0.5301</b> |
| <b>TOTAL</b> |                    | <b>2.6279</b> | <b>28.2613</b> | <b>19.8314</b> | <b>0.0640</b>   | <b>2.8275</b> | <b>1.4758</b> |

|              |                    |               |                |                |                 |               |               |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.8952        | 19.1157        | 13.5663        | 2.97E-02        | 1.0279        | 0.9457        |
|              | Total              | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>2.97E-02</b> | <b>1.0279</b> | <b>0.9457</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.84E-01      | 8.8522         | 2.5618         | 2.07E-02        | 0.5552        | 1.93E-01      |
|              | Worker             | 0.5211        | 0.3193         | 3.6305         | 1.24E-02        | 1.2452        | 0.3381        |
|              | Total              | <b>0.8047</b> | <b>9.1714</b>  | <b>6.1922</b>  | <b>3.31E-02</b> | <b>1.8004</b> | <b>0.5308</b> |
| <b>TOTAL</b> |                    | <b>2.6999</b> | <b>28.2871</b> | <b>19.7585</b> | <b>0.0628</b>   | <b>2.8283</b> | <b>1.4765</b> |

|              |             |               |                |                |               |               |               |
|--------------|-------------|---------------|----------------|----------------|---------------|---------------|---------------|
| Onsite       | <b>2020</b> |               |                |                |               |               |               |
|              | Off-Road    | 1.8952        | 19.1157        | 13.5663        | 0.0297        | 1.0279        | 0.9457        |
|              | Total       | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>0.0297</b> | <b>1.0279</b> | <b>0.9457</b> |
| Offsite      |             |               |                |                |               |               |               |
|              | Hauling     | 0             | 0              | 0              | 0             | 0             | 0             |
|              | Vendor      | 0.2836        | 8.8551         | 2.5618         | 0.0212        | 0.5552        | 0.1927        |
|              | Worker      | 0.5211        | 0.3193         | 3.9279         | 0.0131        | 1.2452        | 0.3381        |
|              | Total       | <b>0.8047</b> | <b>9.1714</b>  | <b>6.2651</b>  | <b>0.0343</b> | <b>1.8004</b> | <b>0.5308</b> |
| <b>TOTAL</b> |             | <b>2.6999</b> | <b>28.2871</b> | <b>19.8314</b> | <b>0.0640</b> | <b>2.8283</b> | <b>1.4765</b> |

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2021 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.7486        | 17.6537        | 13.4017        | 2.97E-02        | 0.9192        | 0.8456        |
|              | Total              | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>2.97E-02</b> | <b>0.9192</b> | <b>0.8456</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.27E-01      | 7.9742         | 2.1626         | 2.10E-02        | 0.5247        | 1.64E-01      |
|              | Worker             | 0.4331        | 0.2621         | 3.6448         | 1.27E-02        | 1.2451        | 0.338         |
|              | Total              | <b>0.6599</b> | <b>8.2363</b>  | <b>5.8074</b>  | <b>3.36E-02</b> | <b>1.7698</b> | <b>0.5015</b> |
| <b>TOTAL</b> |                    | <b>2.4085</b> | <b>25.8900</b> | <b>19.2091</b> | <b>0.0633</b>   | <b>2.6890</b> | <b>1.3471</b> |

|              |                    |               |                |                |                 |               |               |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2021 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.7486        | 17.6537        | 13.4017        | 2.97E-02        | 0.9192        | 0.8456        |
|              | Total              | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>2.97E-02</b> | <b>0.9192</b> | <b>0.8456</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.38E-01      | 7.9554         | 2.3726         | 2.05E-02        | 0.5254        | 1.64E-01      |
|              | Worker             | 0.4904        | 0.288          | 3.3632         | 1.20E-02        | 1.2451        | 0.338         |
|              | Total              | <b>0.7285</b> | <b>8.2434</b>  | <b>5.7358</b>  | <b>3.24E-02</b> | <b>1.7704</b> | <b>0.5021</b> |
| <b>TOTAL</b> |                    | <b>2.4771</b> | <b>25.8971</b> | <b>19.1375</b> | <b>0.0621</b>   | <b>2.6896</b> | <b>1.3477</b> |

|              |          | 2021          |                |                |               |               |               |
|--------------|----------|---------------|----------------|----------------|---------------|---------------|---------------|
| Onsite       | Off-Road | 1.7486        | 17.6537        | 13.4017        | 0.0297        | 0.9192        | 0.8456        |
|              | Total    | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>0.0297</b> | <b>0.9192</b> | <b>0.8456</b> |
| Offsite      | Hauling  | 0             | 0              | 0              | 0             | 0             | 0             |
|              | Vendor   | 0.2381        | 7.9742         | 2.3726         | 0.021         | 0.5254        | 0.1642        |
|              | Worker   | 0.4904        | 0.288          | 3.6448         | 0.0127        | 1.2451        | 0.338         |
|              | Total    | <b>0.7285</b> | <b>8.2434</b>  | <b>5.8074</b>  | <b>0.0336</b> | <b>1.7704</b> | <b>0.5021</b> |
| <b>TOTAL</b> |          | <b>2.4771</b> | <b>25.8971</b> | <b>19.2091</b> | <b>0.0633</b> | <b>2.6896</b> | <b>1.3477</b> |

|         |             | ROG      | NOx     | CO      | SO2      | PM10 Total | PM2.5 Total |
|---------|-------------|----------|---------|---------|----------|------------|-------------|
| Onsite  | 2022 Summer |          |         |         |          |            |             |
|         | Off-Road    | 1.6052   | 16.2515 | 13.2378 | 2.97E-02 | 0.8099     | 0.7451      |
|         | Total       | 1.6052   | 16.2515 | 13.2378 | 2.97E-02 | 0.8099     | 0.7451      |
| Offsite | Hauling     | 0        | 0       | 0       | 0        | 0          | 0           |
|         | Vendor      | 2.13E-01 | 7.5442  | 2.0882  | 2.07E-02 | 0.5226     | 1.62E-01    |
|         | Worker      | 0.4093   | 0.2374  | 3.4017  | 1.22E-02 | 1.2449     | 0.3378      |
|         | Total       | 0.6226   | 7.7816  | 5.4899  | 3.29E-02 | 1.7675     | 0.4993      |
| TOTAL   |             | 2.2278   | 24.0331 | 18.7277 | 0.0626   | 2.5774     | 1.2444      |

|         |          |             |         |         |          |        |          |
|---------|----------|-------------|---------|---------|----------|--------|----------|
| Onsite  |          | 2022 Winter |         |         |          |        |          |
|         | Off-Road | 1.6052      | 16.2515 | 13.2378 | 2.97E-02 | 0.8099 | 0.7451   |
|         | Total    | 1.6052      | 16.2515 | 13.2378 | 2.97E-02 | 0.8099 | 0.7451   |
| Offsite |          |             |         |         |          |        |          |
|         | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|         | Vendor   | 2.24E-01    | 7.5212  | 2.2876  | 2.02E-02 | 0.5231 | 1.62E-01 |
|         | Worker   | 0.4646      | 0.2609  | 3.1342  | 1.15E-02 | 1.2449 | 0.3378   |
|         | Total    | 0.6885      | 7.7821  | 5.4218  | 3.18E-02 | 1.768  | 0.4998   |
| TOTAL   |          | 2.2937      | 24.0336 | 18.6596 | 0.0615   | 2.5779 | 1.2449   |

|         |          | 2022   |         |         |        |        |        |  |
|---------|----------|--------|---------|---------|--------|--------|--------|--|
| Onsite  | Off-Road | 1.6052 | 16.2515 | 13.2378 | 0.0297 | 0.8099 | 0.7451 |  |
|         | Total    | 1.6052 | 16.2515 | 13.2378 | 0.0297 | 0.8099 | 0.7451 |  |
| Offsite | Hauling  | 0      | 0       | 0       | 0      | 0      | 0      |  |
|         | Vendor   | 0.2239 | 7.5442  | 2.2876  | 0.0207 | 0.5231 | 0.162  |  |
|         | Worker   | 0.4646 | 0.2609  | 3.4017  | 0.0122 | 1.2449 | 0.3378 |  |
|         | Total    | 0.6885 | 7.7821  | 5.4899  | 0.0329 | 1.768  | 0.4998 |  |
|         | TOTAL    | 2.2937 | 24.0336 | 18.7277 | 0.0626 | 2.5779 | 1.2449 |  |

|         |             | ROG      | NOx     | CO      | SO2      | PM10 Total | PM2.5 Total |
|---------|-------------|----------|---------|---------|----------|------------|-------------|
| Onsite  | 2023 Summer |          |         |         |          |            |             |
|         | Off-Road    | 1.5206   | 14.9076 | 13.1767 | 2.97E-02 | 0.739      | 0.6799      |
|         | Total       | 1.5206   | 14.9076 | 13.1767 | 2.97E-02 | 0.739      | 0.6799      |
| Offsite | Hauling     | 0        | 0       | 0       | 0        | 0          | 0           |
|         | Vendor      | 1.62E-01 | 5.694   | 1.949   | 2.01E-02 | 0.515      | 1.54E-01    |
|         | Worker      | 0.3877   | 0.2156  | 3.1724  | 1.17E-02 | 1.2447     | 0.3377      |
|         | Total       | 0.55     | 5.9096  | 5.1214  | 3.18E-02 | 1.7598     | 0.4919      |
| TOTAL   |             | 2.0706   | 20.8172 | 18.2981 | 0.0615   | 2.4988     | 1.1718      |

|         |          |             |         |         |          |        |          |
|---------|----------|-------------|---------|---------|----------|--------|----------|
| Onsite  |          | 2023 Winter |         |         |          |        |          |
|         | Off-Road | 1.5206      | 14.9076 | 13.1767 | 2.97E-02 | 0.739  | 0.6799   |
|         | Total    | 1.5206      | 14.9076 | 13.1767 | 2.97E-02 | 0.739  | 0.6799   |
| Offsite |          |             |         |         |          |        |          |
|         | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|         | Vendor   | 1.71E-01    | 5.6614  | 2.1021  | 1.96E-02 | 0.5154 | 1.55E-01 |
|         | Worker   | 0.4413      | 0.2368  | 2.9183  | 1.11E-02 | 1.2447 | 0.3377   |
|         | Total    | 0.6118      | 5.8982  | 5.0204  | 3.07E-02 | 1.7602 | 0.4923   |
| TOTAL   |          | 2.1324      | 20.8058 | 18.1971 | 0.0604   | 2.4992 | 1.1722   |
|         |          |             |         |         |          |        |          |
| Onsite  |          | 2023        |         |         |          |        |          |
|         | Off-Road | 1.5206      | 14.9076 | 13.1767 | 0.0297   | 0.739  | 0.6799   |
|         | Total    | 1.5206      | 14.9076 | 13.1767 | 0.0297   | 0.739  | 0.6799   |
| Offsite |          |             |         |         |          |        |          |
|         | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|         | Vendor   | 0.1705      | 5.694   | 2.1021  | 0.0201   | 0.5154 | 0.1547   |
|         | Worker   | 0.4413      | 0.2368  | 3.1724  | 0.0117   | 1.2447 | 0.3377   |
|         | Total    | 0.6118      | 5.9096  | 5.1214  | 0.0318   | 1.7602 | 0.4923   |
| TOTAL   |          | 2.1324      | 20.8172 | 18.2981 | 0.0615   | 2.4992 | 1.1722   |

| Structural Concrete |          |             |         |         |          |            |             |
|---------------------|----------|-------------|---------|---------|----------|------------|-------------|
|                     |          | ROG         | NOx     | CO      | SO2      | PM10 Total | PM2.5 Total |
| Onsite              |          | 2020 Summer |         |         |          |            |             |
|                     | Off-Road | 1.1809      | 13.2563 | 11.3889 | 0.0193   | 0.6366     | 0.5868      |
|                     | Paving   | 4.76E-03    |         |         |          | 0          | 0           |
|                     | Total    | 1.1856      | 13.2563 | 11.3889 | 0.0193   | 0.6366     | 0.5868      |
| Offsite             |          |             |         |         |          |            |             |
|                     | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|                     | Vendor   | 0           | 0       | 0       | 0        | 0          | 0           |
|                     | Worker   | 0.1537      | 0.0968  | 1.3093  | 4.37E-03 | 0.4151     | 0.1127      |
|                     | Total    | 0.1537      | 0.0968  | 1.3093  | 4.37E-03 | 0.4151     | 0.1127      |
| TOTAL               |          | 1.3393      | 13.3531 | 12.6982 | 0.0237   | 1.0517     | 0.6995      |
| Onsite              |          | 2020 Winter |         |         |          |            |             |
|                     | Off-Road | 1.1809      | 13.2563 | 11.3889 | 0.0193   | 0.6366     | 0.5868      |
|                     | Paving   | 4.76E-03    |         |         |          | 0          | 0           |
|                     | Total    | 1.1856      | 13.2563 | 11.3889 | 0.0193   | 0.6366     | 0.5868      |
| Offsite             |          |             |         |         |          |            |             |
|                     | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|                     | Vendor   | 0           | 0       | 0       | 0        | 0          | 0           |
|                     | Worker   | 0.1737      | 0.1064  | 1.2102  | 4.14E-03 | 0.4151     | 0.1127      |
|                     | Total    | 0.1737      | 0.1064  | 1.2102  | 4.14E-03 | 0.4151     | 0.1127      |
| TOTAL               |          | 1.3593      | 13.3627 | 12.5991 | 0.0234   | 1.0517     | 0.6995      |

|              |          |             |               |                |                |                |               |
|--------------|----------|-------------|---------------|----------------|----------------|----------------|---------------|
| Onsite       |          | <b>2020</b> |               |                |                |                |               |
|              | Off-Road |             | 1.1809        | 13.2563        | 11.3889        | 0.0193         | 0.6366        |
|              | Paving   |             | 0.00476       | 0              | 0              | 0              | 0             |
|              | Total    |             | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b>  | <b>0.6366</b> |
| Offsite      |          |             |               |                |                |                |               |
|              | Hauling  |             | 0             | 0              | 0              | 0              | 0             |
|              | Vendor   |             | 0             | 0              | 0              | 0              | 0             |
|              | Worker   |             | 0.1737        | 0.1064         | 1.3093         | 0.00437        | 0.4151        |
|              | Total    |             | <b>0.1737</b> | <b>0.1064</b>  | <b>1.3093</b>  | <b>0.00437</b> | <b>0.4151</b> |
| <b>TOTAL</b> |          |             | <b>1.3593</b> | <b>13.3627</b> | <b>12.6982</b> | <b>0.0237</b>  | <b>1.0517</b> |

|                                                                      |             |              |              |             |             |             |
|----------------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Wet Utilities, Multi-Use Structure, &amp; Structural Concrete</b> | <b>5.71</b> | <b>58.72</b> | <b>43.96</b> | <b>0.13</b> | <b>4.86</b> | <b>2.84</b> |
| <b>Multi-Use Structure &amp; Structural Concrete</b>                 | <b>4.06</b> | <b>41.65</b> | <b>32.53</b> | <b>0.09</b> | <b>3.88</b> | <b>2.18</b> |

### Dry Utility Trenching

|              |          |                    |               |               |               |                 |               |               |
|--------------|----------|--------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
|              |          |                    | ROG           | NOx           | CO            | SO2             | PM10 Total    | PM2.5 Total   |
| Onsite       |          | <b>2020 Summer</b> |               |               |               |                 |               |               |
|              | Off-Road |                    | 0.5415        | 6.1106        | 4.3684        | 1.13E-02        | 0.2356        | 0.2168        |
|              | Total    |                    | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>1.13E-02</b> | <b>0.2356</b> | <b>0.2168</b> |
| Offsite      |          |                    |               |               |               |                 |               |               |
|              | Hauling  |                    | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Vendor   |                    | 6.39E-03      | 0.2084        | 0.055         | 5.00E-04        | 0.013         | 4.52E-03      |
|              | Worker   |                    | 0.0692        | 0.0436        | 0.5892        | 1.97E-03        | 0.1868        | 0.0507        |
|              | Total    |                    | <b>0.0756</b> | <b>0.2519</b> | <b>0.6442</b> | <b>2.47E-03</b> | <b>0.1998</b> | <b>0.0552</b> |
| <b>TOTAL</b> |          |                    | <b>0.6171</b> | <b>6.3625</b> | <b>5.0126</b> | <b>0.0138</b>   | <b>0.4354</b> | <b>0.2720</b> |

|              |          |                    |               |               |               |                 |               |               |
|--------------|----------|--------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Winter</b> |               |               |               |                 |               |               |
|              | Off-Road |                    | 0.5415        | 6.1106        | 4.3684        | 1.13E-02        | 0.2356        | 0.2168        |
|              | Total    |                    | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>1.13E-02</b> | <b>0.2356</b> | <b>0.2168</b> |
| Offsite      |          |                    |               |               |               |                 |               |               |
|              | Hauling  |                    | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Vendor   |                    | 6.67E-03      | 0.2083        | 0.0603        | 4.90E-04        | 0.0131        | 4.53E-03      |
|              | Worker   |                    | 0.0782        | 0.0479        | 0.5446        | 1.86E-03        | 0.1868        | 0.0507        |
|              | Total    |                    | <b>0.0848</b> | <b>0.2562</b> | <b>0.6049</b> | <b>2.35E-03</b> | <b>0.1999</b> | <b>0.0553</b> |
| <b>TOTAL</b> |          |                    | <b>0.6263</b> | <b>6.3668</b> | <b>4.9733</b> | <b>0.0137</b>   | <b>0.4355</b> | <b>0.2721</b> |

|              |          |             |               |               |               |                |               |               |
|--------------|----------|-------------|---------------|---------------|---------------|----------------|---------------|---------------|
| Onsite       |          | <b>2020</b> | 0.5415        | 6.1106        | 4.3684        | 0.0113         | 0.2356        | 0.2168        |
|              | Off-Road |             | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>0.0113</b>  | <b>0.2356</b> | <b>0.2168</b> |
| Offsite      |          |             |               |               |               |                |               |               |
|              | Hauling  |             | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Vendor   |             | 0.00667       | 0.2084        | 0.0603        | 0.0005         | 0.0131        | 0.00453       |
|              | Worker   |             | 0.0782        | 0.0479        | 0.5892        | 0.00197        | 0.1868        | 0.0507        |
|              | Total    |             | <b>0.0848</b> | <b>0.2562</b> | <b>0.6442</b> | <b>0.00247</b> | <b>0.1999</b> | <b>0.0553</b> |
| <b>TOTAL</b> |          |             | <b>0.6263</b> | <b>6.3668</b> | <b>5.0126</b> | <b>0.0138</b>  | <b>0.4355</b> | <b>0.2721</b> |

|                                                                                     |             |              |              |             |             |             |
|-------------------------------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Wet Utilities, Multi-Use Structure, Structural Concrete, &amp; Dry Utilities</b> | <b>6.34</b> | <b>65.08</b> | <b>48.97</b> | <b>0.14</b> | <b>5.30</b> | <b>3.11</b> |
| <b>Multi-Use Structure, Structural Concrete, &amp; Dry Utilities</b>                | <b>4.69</b> | <b>48.02</b> | <b>37.54</b> | <b>0.10</b> | <b>4.32</b> | <b>2.45</b> |

# Street Improvements - Balancing / Aggregate Base

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road           | 2.1938        | 25.9636        | 15.3699        | 0.0318          | 1.0758        | 0.9897        |
|              | Paving             | 0.1991        |                |                |                 | 0             | 0             |
|              | Total              | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b>   | <b>1.0758</b> | <b>0.9897</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 6.39E-03      | 0.2084         | 0.055          | 5.00E-04        | 0.013         | 4.52E-03      |
|              | Worker             | 0.0615        | 0.0387         | 0.5237         | 1.75E-03        | 0.166         | 0.0451        |
|              | Total              | <b>0.0679</b> | <b>0.2471</b>  | <b>0.5787</b>  | <b>2.25E-03</b> | <b>0.1791</b> | <b>0.0496</b> |
| <b>TOTAL</b> |                    | <b>2.4608</b> | <b>26.2107</b> | <b>15.9486</b> | <b>0.0341</b>   | <b>1.2549</b> | <b>1.0393</b> |

|              |                    |               |                |                |                 |               |               |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road           | 2.1938        | 25.9636        | 15.3699        | 0.0318          | 1.0758        | 0.9897        |
|              | Paving             | 0.1991        |                |                |                 | 0             | 0             |
|              | Total              | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b>   | <b>1.0758</b> | <b>0.9897</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 6.67E-03      | 0.2083         | 0.0603         | 4.90E-04        | 0.0131        | 4.53E-03      |
|              | Worker             | 0.0695        | 0.0426         | 0.4841         | 1.66E-03        | 0.166         | 0.0451        |
|              | Total              | <b>0.0762</b> | <b>0.2509</b>  | <b>0.5443</b>  | <b>2.15E-03</b> | <b>0.1791</b> | <b>0.0496</b> |
| <b>TOTAL</b> |                    | <b>2.4691</b> | <b>26.2145</b> | <b>15.9142</b> | <b>0.0340</b>   | <b>1.2549</b> | <b>1.0393</b> |

|              |             |               |                |                |                |               |               |
|--------------|-------------|---------------|----------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b> |               |                |                |                |               |               |
|              | Off-Road    | 2.1938        | 25.9636        | 15.3699        | 0.0318         | 1.0758        | 0.9897        |
|              | Paving      | 0.1991        | 0              | 0              | 0              | 0             | 0             |
|              | Total       | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b>  | <b>1.0758</b> | <b>0.9897</b> |
| Offsite      |             |               |                |                |                |               |               |
|              | Hauling     | 0             | 0              | 0              | 0              | 0             | 0             |
|              | Vendor      | 0.00667       | 0.2084         | 0.0603         | 0.0005         | 0.0131        | 0.00453       |
|              | Worker      | 0.0695        | 0.0426         | 0.5237         | 0.00175        | 0.166         | 0.0451        |
|              | Total       | <b>0.0762</b> | <b>0.2509</b>  | <b>0.5787</b>  | <b>0.00225</b> | <b>0.1791</b> | <b>0.0496</b> |
| <b>TOTAL</b> |             | <b>2.4691</b> | <b>26.2145</b> | <b>15.9486</b> | <b>0.0341</b>  | <b>1.2549</b> | <b>1.0393</b> |

## Multi-Use Structure, Structural Concrete, & Aggregate Base

|             |              |              |             |             |             |
|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>6.53</b> | <b>67.86</b> | <b>48.48</b> | <b>0.12</b> | <b>5.13</b> | <b>3.22</b> |
|-------------|--------------|--------------|-------------|-------------|-------------|

# Street Improvements - Curb & Gutter

|              |                    | ROG           | NOx           | CO            | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Summer</b> |               |               |               |                 |               |               |
|              | Off-Road           | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Paving             | 0.1991        |               |               |                 | 0             | 0             |
|              | Total              | <b>0.1991</b> | <b>0</b>      | <b>0</b>      | <b>0</b>        | <b>0</b>      | <b>0</b>      |
| Offsite      |                    |               |               |               |                 |               |               |
|              | Hauling            | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Worker             | 0.0692        | 0.0436        | 0.5892        | 1.97E-03        | 0.1868        | 0.0507        |
|              | Total              | <b>0.0692</b> | <b>0.0436</b> | <b>0.5892</b> | <b>1.97E-03</b> | <b>0.1868</b> | <b>0.0507</b> |
| <b>TOTAL</b> |                    | <b>0.2683</b> | <b>0.0436</b> | <b>0.5892</b> | <b>0.0020</b>   | <b>0.1868</b> | <b>0.0507</b> |

|                                                  |          |             |        |        |          |        |        |
|--------------------------------------------------|----------|-------------|--------|--------|----------|--------|--------|
| Onsite                                           |          | 2020 Winter |        |        |          |        |        |
|                                                  | Off-Road | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Paving   | 0.1991      |        |        |          | 0      | 0      |
|                                                  | Total    | 0.1991      | 0      | 0      | 0        | 0      | 0      |
| Offsite                                          |          |             |        |        |          |        |        |
|                                                  | Hauling  | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Vendor   | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Worker   | 0.0782      | 0.0479 | 0.5446 | 1.86E-03 | 0.1868 | 0.0507 |
|                                                  | Total    | 0.0782      | 0.0479 | 0.5446 | 1.86E-03 | 0.1868 | 0.0507 |
| TOTAL                                            |          | 0.2773      | 0.0479 | 0.5446 | 0.0019   | 0.1868 | 0.0507 |
|                                                  |          |             |        |        |          |        |        |
| Onsite                                           |          | 2020        |        |        |          |        |        |
|                                                  | Off-Road | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Paving   | 0.1991      | 0      | 0      | 0        | 0      | 0      |
|                                                  | Total    | 0.1991      | 0      | 0      | 0        | 0      | 0      |
| Offsite                                          |          |             |        |        |          |        |        |
|                                                  | Hauling  | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Vendor   | 0           | 0      | 0      | 0        | 0      | 0      |
|                                                  | Worker   | 0.0782      | 0.0479 | 0.5892 | 0.00197  | 0.1868 | 0.0507 |
|                                                  | Total    | 0.0782      | 0.0479 | 0.5892 | 0.00197  | 0.1868 | 0.0507 |
| TOTAL                                            |          | 0.2773      | 0.0479 | 0.5892 | 0.0020   | 0.1868 | 0.0507 |
|                                                  |          |             |        |        |          |        |        |
| Multi-Use Structure, Structural Concrete, & Curb |          | 4.34        | 41.70  | 33.12  | 0.09     | 4.07   | 2.23   |

| Asphalt Paving |          |             | ROG    | NOx     | CO     | SO2      | PM10 Total | PM2.5 Total |
|----------------|----------|-------------|--------|---------|--------|----------|------------|-------------|
| Onsite         |          | 2020 Summer |        |         |        |          |            |             |
|                | Off-Road |             | 1.2414 | 14.6521 | 8.7696 | 0.0183   | 0.6216     | 0.5719      |
|                | Paving   |             | 0.4978 |         |        |          | 0          | 0           |
|                | Total    |             | 1.7392 | 14.6521 | 8.7696 | 0.0183   | 0.6216     | 0.5719      |
| Offsite        |          |             |        |         |        |          |            |             |
|                | Hauling  |             | 0      | 0       | 0      | 0        | 0          | 0           |
|                | Vendor   |             | 0      | 0       | 0      | 0        | 0          | 0           |
|                | Worker   |             | 0.0461 | 0.0291  | 0.3928 | 1.31E-03 | 0.1245     | 0.0338      |
|                | Total    |             | 0.0461 | 0.0291  | 0.3928 | 1.31E-03 | 0.1245     | 0.0338      |
| TOTAL          |          |             | 1.7853 | 14.6812 | 9.1624 | 0.0196   | 0.7461     | 0.6057      |
| Onsite         |          | 2020 Winter |        |         |        |          |            |             |
|                | Off-Road |             | 1.2414 | 14.6521 | 8.7696 | 0.0183   | 0.6216     | 0.5719      |
|                | Paving   |             | 0.4978 |         |        |          | 0          | 0           |
|                | Total    |             | 1.7392 | 14.6521 | 8.7696 | 0.0183   | 0.6216     | 0.5719      |
| Offsite        |          |             |        |         |        |          |            |             |
|                | Hauling  |             | 0      | 0       | 0      | 0        | 0          | 0           |
|                | Vendor   |             | 0      | 0       | 0      | 0        | 0          | 0           |
|                | Worker   |             | 0.0521 | 0.0319  | 0.363  | 1.24E-03 | 0.1245     | 0.0338      |
|                | Total    |             | 0.0521 | 0.0319  | 0.363  | 1.24E-03 | 0.1245     | 0.0338      |
| TOTAL          |          |             | 1.7913 | 14.6840 | 9.1326 | 0.0195   | 0.7461     | 0.6057      |

|              |          |               |                |               |                |               |               |
|--------------|----------|---------------|----------------|---------------|----------------|---------------|---------------|
| Onsite       |          | <b>2020</b>   |                |               |                |               |               |
|              | Off-Road | 1.2414        | 14.6521        | 8.7696        | 0.0183         | 0.6216        | 0.5719        |
|              | Paving   | 0.4978        | 0              | 0             | 0              | 0             | 0             |
|              | Total    | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b>  | <b>0.6216</b> | <b>0.5719</b> |
| Offsite      |          |               |                |               |                |               |               |
|              | Hauling  | 0             | 0              | 0             | 0              | 0             | 0             |
|              | Vendor   | 0             | 0              | 0             | 0              | 0             | 0             |
|              | Worker   | 0.0521        | 0.0319         | 0.3928        | 0.00131        | 0.1245        | 0.0338        |
|              | Total    | <b>0.0521</b> | <b>0.0319</b>  | <b>0.3928</b> | <b>0.00131</b> | <b>0.1245</b> | <b>0.0338</b> |
| <b>TOTAL</b> |          | <b>1.7913</b> | <b>14.6840</b> | <b>9.1624</b> | <b>0.0196</b>  | <b>0.7461</b> | <b>0.6057</b> |

|                                                               |             |              |              |             |             |             |
|---------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Paving</b> | <b>5.85</b> | <b>56.33</b> | <b>41.69</b> | <b>0.11</b> | <b>4.63</b> | <b>2.78</b> |
|---------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|

#### Street Improvements - Concrete Flatwork

|              |                    | ROG           | NOx           | CO            | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Summer</b> |               |               |               |                 |               |               |
|              | Off-Road           | 0.2009        | 2.0183        | 2.1857        | 2.98E-03        | 0.1276        | 0.1174        |
|              | Paving             | 0.0905        |               |               |                 | 0             | 0             |
|              | Total              | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.98E-03</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |                    |               |               |               |                 |               |               |
|              | Hauling            | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Worker             | 0.0615        | 0.0387        | 0.5237        | 1.75E-03        | 0.166         | 0.0451        |
|              | Total              | <b>0.0615</b> | <b>0.0387</b> | <b>0.5237</b> | <b>1.75E-03</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |                    | <b>0.3529</b> | <b>2.0570</b> | <b>2.7094</b> | <b>0.0047</b>   | <b>0.2936</b> | <b>0.1625</b> |

|              |                    |               |               |               |                 |               |               |
|--------------|--------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       | <b>2020 Winter</b> |               |               |               |                 |               |               |
|              | Off-Road           | 0.2009        | 2.0183        | 2.1857        | 2.98E-03        | 0.1276        | 0.1174        |
|              | Paving             | 0.0905        |               |               |                 | 0             | 0             |
|              | Total              | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.98E-03</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |                    |               |               |               |                 |               |               |
|              | Hauling            | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0               | 0             | 0             |
|              | Worker             | 0.0695        | 0.0426        | 0.4841        | 1.66E-03        | 0.166         | 0.0451        |
|              | Total              | <b>0.0695</b> | <b>0.0426</b> | <b>0.4841</b> | <b>1.66E-03</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |                    | <b>0.3609</b> | <b>2.0609</b> | <b>2.6698</b> | <b>0.0046</b>   | <b>0.2936</b> | <b>0.1625</b> |

|              |             |               |               |               |                |               |               |
|--------------|-------------|---------------|---------------|---------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b> |               |               |               |                |               |               |
|              | Off-Road    | 0.2009        | 2.0183        | 2.1857        | 0.00298        | 0.1276        | 0.1174        |
|              | Paving      | 0.0905        | 0             | 0             | 0              | 0             | 0             |
|              | Total       | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>0.00298</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |             |               |               |               |                |               |               |
|              | Hauling     | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Vendor      | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Worker      | 0.0695        | 0.0426        | 0.5237        | 0.00175        | 0.166         | 0.0451        |
|              | Total       | <b>0.0695</b> | <b>0.0426</b> | <b>0.5237</b> | <b>0.00175</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |             | <b>0.3609</b> | <b>2.0609</b> | <b>2.7094</b> | <b>0.0047</b>  | <b>0.2936</b> | <b>0.1625</b> |

|                                                                 |             |              |              |             |             |             |
|-----------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Concrete</b> | <b>4.42</b> | <b>43.71</b> | <b>35.24</b> | <b>0.09</b> | <b>4.17</b> | <b>2.34</b> |
|-----------------------------------------------------------------|-------------|--------------|--------------|-------------|-------------|-------------|

| Architectural Coating                                    |                 |                |               |               |               |                        |
|----------------------------------------------------------|-----------------|----------------|---------------|---------------|---------------|------------------------|
|                                                          |                 | ROG            | NOx           | CO            | SO2           | PM10 Total PM2.5 Total |
| Onsite                                                   | 2022 Summer     |                |               |               |               |                        |
|                                                          | Archit. Coating | 34.3878        |               |               |               | 0 0                    |
|                                                          | Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.97E-03      | 0.0817 0.0817          |
|                                                          | Total           | 34.5923        | 1.4085        | 1.8136        | 2.97E-03      | 0.0817 0.0817          |
| Offsite                                                  |                 |                |               |               |               |                        |
|                                                          | Hauling         | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Vendor          | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Worker          | 0.0819         | 0.0475        | 0.6804        | 2.44E-03      | 0.249 0.0676           |
|                                                          | Total           | 0.0819         | 0.0475        | 0.6804        | 2.44E-03      | 0.249 0.0676           |
| <b>TOTAL</b>                                             |                 | <b>34.6742</b> | <b>1.4560</b> | <b>2.4940</b> | <b>0.0054</b> | <b>0.3307 0.1493</b>   |
| Onsite                                                   | 2022 Winter     |                |               |               |               |                        |
|                                                          | Archit. Coating | 34.3878        |               |               |               | 0 0                    |
|                                                          | Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.97E-03      | 0.0817 0.0817          |
|                                                          | Total           | 34.5923        | 1.4085        | 1.8136        | 2.97E-03      | 0.0817 0.0817          |
| Offsite                                                  |                 |                |               |               |               |                        |
|                                                          | Hauling         | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Vendor          | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Worker          | 0.0929         | 0.0522        | 0.6268        | 2.31E-03      | 0.249 0.0676           |
|                                                          | Total           | 0.0929         | 0.0522        | 0.6268        | 2.31E-03      | 0.249 0.0676           |
| <b>TOTAL</b>                                             |                 | <b>34.6852</b> | <b>1.4607</b> | <b>2.4404</b> | <b>0.0053</b> | <b>0.3307 0.1493</b>   |
| Onsite                                                   | 2022            |                |               |               |               |                        |
|                                                          | Archit. Coating | 34.3878        | 0             | 0             | 0             | 0 0                    |
|                                                          | Off-Road        | 0.2045         | 1.4085        | 1.8136        | 0.00297       | 0.0817 0.0817          |
|                                                          | Total           | 34.5923        | 1.4085        | 1.8136        | 0.00297       | 0.0817 0.0817          |
| Offsite                                                  |                 |                |               |               |               |                        |
|                                                          | Hauling         | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Vendor          | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Worker          | 0.0929         | 0.0522        | 0.6804        | 0.00244       | 0.249 0.0676           |
|                                                          | Total           | 0.0929         | 0.0522        | 0.6804        | 0.00244       | 0.249 0.0676           |
| <b>TOTAL</b>                                             |                 | <b>34.6852</b> | <b>1.4607</b> | <b>2.4940</b> | <b>0.0054</b> | <b>0.3307 0.1493</b>   |
| <b>Building Construction &amp; Architectural Coating</b> |                 | <b>36.98</b>   | <b>25.49</b>  | <b>21.22</b>  | <b>0.07</b>   | <b>2.91 1.39</b>       |
|                                                          |                 | ROG            | NOx           | CO            | SO2           | PM10 Total PM2.5 Total |
| Onsite                                                   | 2023 Summer     |                |               |               |               |                        |
|                                                          | Archit. Coating | 34.3878        |               |               |               | 0 0                    |
|                                                          | Off-Road        | 0.1917         | 1.303         | 1.8111        | 2.97E-03      | 0.0708 0.0708          |
|                                                          | Total           | 34.5795        | 1.303         | 1.8111        | 2.97E-03      | 0.0708 0.0708          |
| Offsite                                                  |                 |                |               |               |               |                        |
|                                                          | Hauling         | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Vendor          | 0              | 0             | 0             | 0             | 0 0                    |
|                                                          | Worker          | 0.0775         | 0.0431        | 0.6345        | 2.34E-03      | 0.249 0.0675           |
|                                                          | Total           | 0.0775         | 0.0431        | 0.6345        | 2.34E-03      | 0.249 0.0675           |
| <b>TOTAL</b>                                             |                 | <b>34.6570</b> | <b>1.3461</b> | <b>2.4456</b> | <b>0.0053</b> | <b>0.3198 0.1383</b>   |

|                                                          |                 |                    |                |               |               |                 |               |
|----------------------------------------------------------|-----------------|--------------------|----------------|---------------|---------------|-----------------|---------------|
| Onsite                                                   |                 | <b>2023 Winter</b> |                |               |               |                 |               |
|                                                          | Archit. Coating |                    | 34.3878        |               |               | 0               | 0             |
|                                                          | Off-Road        |                    | 0.1917         | 1.303         | 1.8111        | 2.97E-03        | 0.0708        |
|                                                          | Total           |                    | <b>34.5795</b> | <b>1.303</b>  | <b>1.8111</b> | <b>2.97E-03</b> | <b>0.0708</b> |
| Offsite                                                  |                 |                    |                |               |               |                 |               |
|                                                          | Hauling         |                    | 0              | 0             | 0             | 0               | 0             |
|                                                          | Vendor          |                    | 0              | 0             | 0             | 0               | 0             |
|                                                          | Worker          |                    | 0.0883         | 0.0474        | 0.5837        | 2.22E-03        | 0.249         |
|                                                          | Total           |                    | <b>0.0883</b>  | <b>0.0474</b> | <b>0.5837</b> | <b>2.22E-03</b> | <b>0.249</b>  |
| <b>TOTAL</b>                                             |                 |                    | <b>34.6678</b> | <b>1.3504</b> | <b>2.3948</b> | <b>0.0052</b>   | <b>0.3198</b> |
| Onsite                                                   |                 | <b>2023</b>        |                |               |               |                 |               |
|                                                          | Archit. Coating |                    | 34.3878        | 0             | 0             | 0               | 0             |
|                                                          | Off-Road        |                    | 0.1917         | 1.303         | 1.8111        | 0.00297         | 0.0708        |
|                                                          | Total           |                    | <b>34.5795</b> | <b>1.303</b>  | <b>1.8111</b> | <b>0.00297</b>  | <b>0.0708</b> |
| Offsite                                                  |                 |                    |                |               |               |                 |               |
|                                                          | Hauling         |                    | 0              | 0             | 0             | 0               | 0             |
|                                                          | Vendor          |                    | 0              | 0             | 0             | 0               | 0             |
|                                                          | Worker          |                    | 0.0883         | 0.0474        | 0.6345        | 0.00234         | 0.249         |
|                                                          | Total           |                    | <b>0.0883</b>  | <b>0.0474</b> | <b>0.6345</b> | <b>0.00234</b>  | <b>0.249</b>  |
| <b>TOTAL</b>                                             |                 |                    | <b>34.6678</b> | <b>1.3504</b> | <b>2.4456</b> | <b>0.0053</b>   | <b>0.3198</b> |
| <b>Building Construction &amp; Architectural Coating</b> |                 |                    | <b>36.80</b>   | <b>22.17</b>  | <b>20.74</b>  | <b>0.07</b>     | <b>2.82</b>   |
| <b>MAX DAILY</b>                                         |                 |                    | <b>36.98</b>   | <b>217.08</b> | <b>88.15</b>  | <b>0.49</b>     | <b>27.60</b>  |
| <b>Regional Thresholds</b>                               |                 |                    | <b>75</b>      | <b>100</b>    | <b>550</b>    | <b>150</b>      | <b>150</b>    |
| Exceeds Thresholds?                                      |                 |                    | No             | Yes           | No            | No              | No            |

## Regional Construction Emissions Worksheet - Mitigated

\*CalEEMod, Version 2016.3.2

### Building/Asphalt Demolition

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 0             | 0             |
|              | Off-Road           | 2.1168        | 41.1295        | 46.4014        | 8.64E-02        | 1.6032        | 1.6032        |
|              | Total              | <b>2.1168</b> | <b>41.1295</b> | <b>46.4014</b> | <b>8.64E-02</b> | <b>1.6032</b> | <b>1.6032</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.015         | 0.4539         | 0.12           | 1.00E-03        | 0.027         | 9.89E-03      |
|              | Worker             | 0.1649        | 1.08E-01       | 1.427          | 4.52E-03        | 0.4151        | 1.13E-01      |
|              | Total              | <b>0.1799</b> | <b>0.562</b>   | <b>1.547</b>   | <b>5.52E-03</b> | <b>0.4421</b> | <b>0.1226</b> |
| <b>TOTAL</b> |                    | <b>2.2967</b> | <b>41.6915</b> | <b>47.9484</b> | <b>0.0919</b>   | <b>2.0453</b> | <b>1.7258</b> |

|              |                    |               |                |                |                 |               |               |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2019 Winter</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 0             | 0             |
|              | Off-Road           | 2.1168        | 41.1295        | 46.4014        | 0.0864          | 1.6032        | 1.6032        |
|              | Total              | <b>2.1168</b> | <b>41.1295</b> | <b>46.4014</b> | <b>0.0864</b>   | <b>1.6032</b> | <b>1.6032</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.0156        | 0.4544         | 0.1317         | 9.80E-04        | 0.027         | 9.94E-03      |
|              | Worker             | 0.186         | 0.1188         | 1.3211         | 4.28E-03        | 0.4151        | 0.1127        |
|              | Total              | <b>0.2016</b> | <b>0.5732</b>  | <b>1.4529</b>  | <b>5.26E-03</b> | <b>0.4422</b> | <b>0.1227</b> |
| <b>TOTAL</b> |                    | <b>2.3184</b> | <b>41.7027</b> | <b>47.8543</b> | <b>0.0917</b>   | <b>2.0454</b> | <b>1.7259</b> |

|              |             |               |                |                |                |               |               |
|--------------|-------------|---------------|----------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2019</b> |               |                |                |                |               |               |
|              | Off-Road    | 2.1168        | 41.1295        | 46.4014        | 0.0864         | 1.6032        | 1.6032        |
|              | Total       | <b>2.1168</b> | <b>41.1295</b> | <b>46.4014</b> | <b>0.0864</b>  | <b>1.6032</b> | <b>1.6032</b> |
| Offsite      |             |               |                |                |                |               |               |
|              | Hauling     | 0             | 0              | 0              | 0              | 0             | 0             |
|              | Vendor      | 0.0156        | 0.4544         | 0.1317         | 0.001          | 0.027         | 0.00994       |
|              | Worker      | 0.186         | 0.1188         | 1.427          | 0.00452        | 0.4151        | 0.1127        |
|              | Total       | <b>0.2016</b> | <b>0.5732</b>  | <b>1.547</b>   | <b>0.00552</b> | <b>0.4422</b> | <b>0.1227</b> |
| <b>TOTAL</b> |             | <b>2.3184</b> | <b>41.7027</b> | <b>47.9484</b> | <b>0.0919</b>  | <b>2.0454</b> | <b>1.7259</b> |

### Building Demolition Debris Haul

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |                |                |                 |               |               |
|              | Fugitive Dust      |               |                |                |                 | 3.4929        | 0.5289        |
|              | Off-Road           | 0.2413        | 4.6646         | 5.2276         | 9.78E-03        | 0.1769        | 0.1769        |
|              | Total              | <b>0.2413</b> | <b>4.6646</b>  | <b>5.2276</b>  | <b>9.78E-03</b> | <b>3.6698</b> | <b>0.7058</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 1.1001        | 37.682         | 9.4613         | 0.1062          | 2.739         | 0.8552        |
|              | Vendor             | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Worker             | 0.0124        | 8.11E-03       | 0.107          | 3.40E-04        | 0.0311        | 8.46E-03      |
|              | Total              | <b>1.1125</b> | <b>37.6901</b> | <b>9.5683</b>  | <b>0.1065</b>   | <b>2.7701</b> | <b>0.8637</b> |
| <b>TOTAL</b> |                    | <b>1.3538</b> | <b>42.3547</b> | <b>14.7959</b> | <b>0.1163</b>   | <b>6.4399</b> | <b>1.5695</b> |

|                               |               |             |          |         |          |        |          |
|-------------------------------|---------------|-------------|----------|---------|----------|--------|----------|
| Onsite                        |               | 2019 Winter |          |         |          |        |          |
|                               | Fugitive Dust |             |          |         |          | 3.4929 | 0.5289   |
|                               | Off-Road      | 0.2413      | 4.6646   | 5.2276  | 9.78E-03 | 0.1769 | 0.1769   |
|                               | Total         | 0.2413      | 4.6646   | 5.2276  | 9.78E-03 | 3.6698 | 0.7058   |
| Offsite                       |               |             |          |         |          |        |          |
|                               | Hauling       | 1.1207      | 38.4141  | 9.8404  | 0.1051   | 2.7414 | 0.8575   |
|                               | Vendor        | 0           | 0        | 0       | 0        | 0      | 0        |
|                               | Worker        | 0.014       | 8.91E-03 | 0.0991  | 3.20E-04 | 0.0311 | 8.46E-03 |
|                               | Total         | 1.1346      | 38.423   | 9.9395  | 0.1054   | 2.7725 | 0.866    |
| TOTAL                         |               | 1.3759      | 43.0876  | 15.1671 | 0.1152   | 6.4423 | 1.5718   |
|                               |               |             |          |         |          |        |          |
| Onsite                        |               | 2019        |          |         |          |        |          |
|                               | Off-Road      | 0.2413      | 4.6646   | 5.2276  | 0.00978  | 0.1769 | 0.1769   |
|                               | Total         | 0.2413      | 4.6646   | 5.2276  | 0.00978  | 3.6698 | 0.7058   |
| Offsite                       |               |             |          |         |          |        |          |
|                               | Hauling       | 1.1207      | 38.4141  | 9.8404  | 0.1062   | 2.7414 | 0.8575   |
|                               | Vendor        | 0           | 0        | 0       | 0        | 0      | 0        |
|                               | Worker        | 0.014       | 0.00891  | 0.107   | 0.00034  | 0.0311 | 0.00846  |
|                               | Total         | 1.1346      | 38.423   | 9.9395  | 0.1065   | 2.7725 | 0.866    |
| TOTAL                         |               | 1.3759      | 43.0876  | 15.1671 | 0.1163   | 6.4423 | 1.5718   |
|                               |               |             |          |         |          |        |          |
| Demolition+Building Demo Haul |               | 3.69        | 84.79    | 63.12   | 0.21     | 8.49   | 3.30     |

|         |               | ROG         | NOx      | CO      | SO2      | PM10 Total | PM2.5 Total |
|---------|---------------|-------------|----------|---------|----------|------------|-------------|
| Onsite  |               | 2020 Summer |          |         |          |            |             |
|         | Fugitive Dust |             |          |         |          | 3.4929     | 0.5289      |
|         | Off-Road      | 0.2413      | 4.6646   | 5.2276  | 9.77E-03 | 0.1769     | 0.1769      |
|         | Total         | 0.2413      | 4.6646   | 5.2276  | 9.77E-03 | 3.6698     | 0.7058      |
| Offsite |               |             |          |         |          |            |             |
|         | Hauling       | 1.0032      | 34.7974  | 9.2904  | 0.1047   | 13.2871    | 3.4201      |
|         | Vendor        | 0           | 0        | 0       | 0        | 0          | 0           |
|         | Worker        | 0.0115      | 7.26E-03 | 0.0982  | 3.30E-04 | 0.0311     | 8.45E-03    |
|         | Total         | 1.0148      | 34.8046  | 9.3886  | 0.105    | 13.3182    | 3.4285      |
| TOTAL   |               | 1.2561      | 39.4692  | 14.6162 | 0.1148   | 16.9880    | 4.1343      |
| Onsite  |               | 2020 Winter |          |         |          |            |             |
|         | Fugitive Dust |             |          |         |          | 3.4929     | 0.5289      |
|         | Off-Road      | 0.2413      | 4.6646   | 5.2276  | 9.77E-03 | 0.1769     | 0.1769      |
|         | Total         | 0.2413      | 4.6646   | 5.2276  | 9.77E-03 | 3.6698     | 0.7058      |
| Offsite |               |             |          |         |          |            |             |
|         | Hauling       | 1.0209      | 35.4564  | 9.621   | 0.1036   | 13.2887    | 3.4216      |
|         | Vendor        | 0           | 0        | 0       | 0        | 0          | 0           |
|         | Worker        | 0.013       | 7.98E-03 | 0.0908  | 3.10E-04 | 0.0311     | 8.45E-03    |
|         | Total         | 1.034       | 35.4644  | 9.7117  | 0.1039   | 13.3198    | 3.43        |
| TOTAL   |               | 1.2753      | 40.1290  | 14.9393 | 0.1137   | 16.9896    | 4.1358      |
| Onsite  |               | 2020        |          |         |          |            |             |
|         | Off-Road      | 0.2413      | 4.6646   | 5.2276  | 0.00977  | 0.1769     | 0.1769      |
|         | Total         | 0.2413      | 4.6646   | 5.2276  | 0.00977  | 3.6698     | 0.7058      |
| Offsite |               |             |          |         |          |            |             |
|         | Hauling       | 1.0209      | 35.4564  | 9.621   | 0.1047   | 13.2887    | 3.4216      |
|         | Vendor        | 0           | 0        | 0       | 0        | 0          | 0           |
|         | Worker        | 0.013       | 0.00798  | 0.0982  | 0.00033  | 0.0311     | 0.00845     |
|         | Total         | 1.034       | 35.4644  | 9.7117  | 0.105    | 13.3198    | 3.43        |
| TOTAL   |               | 1.2753      | 40.1290  | 14.9393 | 0.1148   | 16.9896    | 4.1358      |

## Asphalt Demolition Workers

|              |                    | ROG           | NOx           | CO            | SO2           | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |               |               |               |               |               |
|              | Off-Road           | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Total              | 0             | 0             | 0             | 0             | 0             | 0             |
| Offsite      |                    |               |               |               |               |               |               |
|              | Hauling            | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0.00E+00      | 0             | 0.00E+00      |
|              | Worker             | 0.033         | 0.0216        | 0.2854        | 9.00E-04      | 0.083         | 0.0226        |
|              | Total              | 0.033         | 0.0216        | 0.2854        | 9.00E-04      | 0.083         | 0.0226        |
| <b>TOTAL</b> |                    | <b>0.0330</b> | <b>0.0216</b> | <b>0.2854</b> | <b>0.0009</b> | <b>0.0830</b> | <b>0.0226</b> |
| Onsite       | <b>2019 Winter</b> |               |               |               |               |               |               |
|              | Off-Road           | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Total              | 0             | 0             | 0             | 0             | 0             | 0             |
| Offsite      |                    |               |               |               |               |               |               |
|              | Hauling            | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0.00E+00      | 0             | 0.00E+00      |
|              | Worker             | 0.0372        | 0.0238        | 0.2642        | 8.60E-04      | 0.083         | 0.0226        |
|              | Total              | 0.0372        | 0.0238        | 0.2642        | 8.60E-04      | 0.083         | 0.0226        |
| <b>TOTAL</b> |                    | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>0.0009</b> | <b>0.0830</b> | <b>0.0226</b> |
| Onsite       | <b>2019</b>        |               |               |               |               |               |               |
|              | Off-Road           | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Total              | 0             | 0             | 0             | 0             | 0             | 0             |
| Offsite      |                    |               |               |               |               |               |               |
|              | Hauling            | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Vendor             | 0             | 0             | 0             | 0             | 0             | 0             |
|              | Worker             | 0.0372        | 0.0238        | 0.2854        | 0.0009        | 0.083         | 0.0226        |
|              | Total              | 0.0372        | 0.0238        | 0.2854        | 0.0009        | 0.083         | 0.0226        |
| <b>TOTAL</b> |                    | <b>0.0372</b> | <b>0.0238</b> | <b>0.2854</b> | <b>0.0009</b> | <b>0.0830</b> | <b>0.0226</b> |

## Asphalt Demolition Debris Haul

|              |                    | ROG           | NOx            | CO            | SO2           | PM10 Total     | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|---------------|---------------|----------------|---------------|
| Onsite       | <b>2019 Summer</b> |               |                |               |               |                |               |
|              | Fugitive Dust      |               |                |               |               | 12.1974        | 1.8468        |
|              | Off-Road           | 0.2413        | 4.6646         | 5.2276        | 9.78E-03      | 0.1769         | 0.1769        |
|              | Total              | 0.2413        | 4.6646         | 5.2276        | 9.78E-03      | 12.3744        | 2.0237        |
| Offsite      |                    |               |                |               |               |                |               |
|              | Hauling            | 0.1685        | 7.2809         | 1.394         | 0.0129        | 0.2117         | 0.0697        |
|              | Vendor             | 0             | 0              | 0             | 0             | 0              | 0             |
|              | Worker             | 0.0124        | 8.11E-03       | 0.107         | 3.40E-04      | 0.0311         | 8.46E-03      |
|              | Total              | 0.1809        | 7.289          | 1.5011        | 0.0132        | 0.2428         | 0.0781        |
| <b>TOTAL</b> |                    | <b>0.4222</b> | <b>11.9536</b> | <b>6.7287</b> | <b>0.0230</b> | <b>12.6172</b> | <b>2.1018</b> |
| Onsite       | <b>2019 Winter</b> |               |                |               |               |                |               |
|              | Fugitive Dust      |               |                |               |               | 12.1974        | 1.8468        |
|              | Off-Road           | 0.2413        | 4.6646         | 5.2276        | 9.78E-03      | 0.1769         | 0.1769        |
|              | Total              | 0.2413        | 4.6646         | 5.2276        | 9.78E-03      | 12.3744        | 2.0237        |
| Offsite      |                    |               |                |               |               |                |               |
|              | Hauling            | 0.1797        | 7.182          | 1.6203        | 0.0123        | 0.213          | 0.0709        |
|              | Vendor             | 0             | 0              | 0             | 0             | 0              | 0             |
|              | Worker             | 0.014         | 8.91E-03       | 0.0991        | 3.20E-04      | 0.0311         | 8.46E-03      |
|              | Total              | 0.1937        | 7.1909         | 1.7194        | 0.0126        | 0.2441         | 0.0794        |
| <b>TOTAL</b> |                    | <b>0.4350</b> | <b>11.8555</b> | <b>6.9470</b> | <b>0.0224</b> | <b>12.6185</b> | <b>2.1031</b> |

|                                                               |          |               |                |               |                |                |               |
|---------------------------------------------------------------|----------|---------------|----------------|---------------|----------------|----------------|---------------|
| Onsite                                                        |          | <b>2019</b>   |                |               |                |                |               |
|                                                               | Off-Road | 0.2413        | 4.6646         | 5.2276        | 0.00978        | 0.1769         | 0.1769        |
|                                                               | Total    | <b>0.2413</b> | <b>4.6646</b>  | <b>5.2276</b> | <b>0.00978</b> | <b>12.3744</b> | <b>2.0237</b> |
| Offsite                                                       |          |               |                |               |                |                |               |
|                                                               | Hauling  | 0.1797        | 7.2809         | 1.6203        | 0.0129         | 0.213          | 0.0709        |
|                                                               | Vendor   | 0             | 0              | 0             | 0              | 0              | 0             |
|                                                               | Worker   | 0.014         | 0.00891        | 0.107         | 0.00034        | 0.0311         | 0.00846       |
|                                                               | Total    | <b>0.1937</b> | <b>7.289</b>   | <b>1.7194</b> | <b>0.0132</b>  | <b>0.2441</b>  | <b>0.0794</b> |
| <b>TOTAL</b>                                                  |          | <b>0.4350</b> | <b>11.9536</b> | <b>6.9470</b> | <b>0.0230</b>  | <b>12.6185</b> | <b>2.1031</b> |
| <b>Demolition+Building Demo Haul &amp; Asphalt Demo +Haul</b> |          | <b>4.17</b>   | <b>96.77</b>   | <b>70.35</b>  | <b>0.23</b>    | <b>21.19</b>   | <b>5.42</b>   |

| Site Preparation |               |                    |                |                |                 |               |               |
|------------------|---------------|--------------------|----------------|----------------|-----------------|---------------|---------------|
|                  |               | ROG                | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
| Onsite           |               | <b>2019 Summer</b> |                |                |                 |               |               |
|                  | Fugitive Dust |                    |                |                |                 | 2.5744        | 1.4151        |
|                  | Off-Road      | 2.1723             | 23.7751        | 16.9274        | 0.0292          | 1.0051        | 0.9247        |
|                  | Total         | <b>2.1723</b>      | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b>   | <b>3.5796</b> | <b>2.3399</b> |
| Offsite          |               |                    |                |                |                 |               |               |
|                  | Hauling       | 0                  | 0              | 0              | 0               | 0             | 0             |
|                  | Vendor        | 7.50E-03           | 0.227          | 0.06           | 5.00E-04        | 0.0135        | 4.94E-03      |
|                  | Worker        | 0.0742             | 0.0486         | 0.6421         | 2.03E-03        | 0.1868        | 0.0507        |
|                  | Total         | <b>0.0817</b>      | <b>0.2756</b>  | <b>0.7021</b>  | <b>2.53E-03</b> | <b>0.2003</b> | <b>0.0557</b> |
| <b>TOTAL</b>     |               | <b>2.2540</b>      | <b>24.0507</b> | <b>17.6295</b> | <b>0.0317</b>   | <b>3.7799</b> | <b>2.3956</b> |
| Onsite           |               | <b>2019 Winter</b> |                |                |                 |               |               |
|                  | Fugitive Dust |                    |                |                |                 | 2.5744        | 1.4151        |
|                  | Off-Road      | 2.1723             | 23.7751        | 16.9274        | 0.0292          | 1.0051        | 0.9247        |
|                  | Total         | <b>2.1723</b>      | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b>   | <b>3.5796</b> | <b>2.3399</b> |
| Offsite          |               |                    |                |                |                 |               |               |
|                  | Hauling       | 0                  | 0              | 0              | 0               | 0             | 0             |
|                  | Vendor        | 7.82E-03           | 0.2272         | 0.0659         | 4.90E-04        | 0.0135        | 4.97E-03      |
|                  | Worker        | 0.0837             | 0.0535         | 0.5945         | 1.92E-03        | 0.1868        | 0.0507        |
|                  | Total         | <b>0.0915</b>      | <b>0.2807</b>  | <b>0.6604</b>  | <b>2.41E-03</b> | <b>0.2003</b> | <b>0.0557</b> |
| <b>TOTAL</b>     |               | <b>2.2638</b>      | <b>24.0558</b> | <b>17.5878</b> | <b>0.0316</b>   | <b>3.7799</b> | <b>2.3956</b> |
| Onsite           |               | <b>2019</b>        |                |                |                 |               |               |
|                  | Fugitive Dust | 0                  | 0              | 0              | 0               | 2.5744        | 1.4151        |
|                  | Off-Road      | 2.1723             | 23.7751        | 16.9274        | 0.0292          | 1.0051        | 0.9247        |
|                  | Total         | <b>2.1723</b>      | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b>   | <b>3.5796</b> | <b>2.3399</b> |
| Offsite          |               |                    |                |                |                 |               |               |
|                  | Hauling       | 0                  | 0              | 0              | 0               | 0             | 0             |
|                  | Vendor        | 0.00782            | 0.2272         | 0.0659         | 0.0005          | 0.0135        | 0.00497       |
|                  | Worker        | 0.0837             | 0.0535         | 0.6421         | 0.00203         | 0.1868        | 0.0507        |
|                  | Total         | <b>0.0915</b>      | <b>0.2807</b>  | <b>0.7021</b>  | <b>0.00253</b>  | <b>0.2003</b> | <b>0.0557</b> |
| <b>TOTAL</b>     |               | <b>2.2638</b>      | <b>24.0558</b> | <b>17.6295</b> | <b>0.0317</b>   | <b>3.7799</b> | <b>2.3956</b> |

| Rough Grading      |               |             |          |          |         |          |            |             |
|--------------------|---------------|-------------|----------|----------|---------|----------|------------|-------------|
|                    |               |             | ROG      | NOx      | CO      | SO2      | PM10 Total | PM2.5 Total |
| Onsite             |               | 2020 Summer |          |          |         |          |            |             |
|                    | Fugitive Dust |             |          |          |         |          | 3.2545     | 1.4886      |
|                    | Off-Road      |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 0.9631     | 0.9631      |
|                    | Total         |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 4.2176     | 2.4517      |
| Offsite            |               |             |          |          |         |          |            |             |
|                    | Hauling       |             | 0        | 0        | 0       | 0        | 0          | 0           |
|                    | Vendor        |             | 6.39E-03 | 0.2084   | 0.055   | 5.00E-04 | 0.013      | 4.52E-03    |
|                    | Worker        |             | 0.0615   | 0.0387   | 0.5237  | 1.75E-03 | 0.166      | 0.0451      |
|                    | Total         |             | 0.0679   | 0.2471   | 0.5787  | 2.25E-03 | 0.1791     | 0.0496      |
| TOTAL              |               |             | 1.3812   | 25.6382  | 29.0343 | 0.0559   | 4.3967     | 2.5013      |
|                    |               |             |          |          |         |          |            |             |
| Onsite             |               | 2020 Winter |          |          |         |          |            |             |
|                    | Fugitive Dust |             |          |          |         |          | 3.2545     | 1.4886      |
|                    | Off-Road      |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 0.9631     | 0.9631      |
|                    | Total         |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 4.2176     | 2.4517      |
| Offsite            |               |             |          |          |         |          |            |             |
|                    | Hauling       |             | 0        | 0        | 0       | 0        | 0          | 0           |
|                    | Vendor        |             | 6.67E-03 | 0.2083   | 0.0603  | 4.90E-04 | 0.0131     | 4.53E-03    |
|                    | Worker        |             | 0.0695   | 0.0426   | 0.4841  | 1.66E-03 | 0.166      | 0.0451      |
|                    | Total         |             | 0.0762   | 0.2509   | 0.5443  | 2.15E-03 | 0.1791     | 0.0496      |
| TOTAL              |               |             | 1.3895   | 25.6420  | 28.9999 | 0.0558   | 4.3967     | 2.5013      |
|                    |               |             |          |          |         |          |            |             |
| Onsite             |               | 2020        |          |          |         |          |            |             |
|                    | Fugitive Dust |             | 0        | 0        | 0       | 0        | 3.2545     | 1.4886      |
|                    | Off-Road      |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 0.9631     | 0.9631      |
|                    | Total         |             | 1.3133   | 25.3911  | 28.4556 | 0.0536   | 4.2176     | 2.4517      |
| Offsite            |               |             |          |          |         |          |            |             |
|                    | Hauling       |             | 0        | 0        | 0       | 0        | 0          | 0           |
|                    | Vendor        |             | 0.00667  | 0.2084   | 0.0603  | 0.0005   | 0.0131     | 0.00453     |
|                    | Worker        |             | 0.0695   | 0.0426   | 0.5237  | 0.00175  | 0.166      | 0.0451      |
|                    | Total         |             | 0.0762   | 0.2509   | 0.5787  | 0.00225  | 0.1791     | 0.0496      |
| TOTAL              |               |             | 1.3895   | 25.6420  | 29.0343 | 0.0559   | 4.3967     | 2.5013      |
|                    |               |             |          |          |         |          |            |             |
| Rough Grading Haul |               |             |          |          |         |          |            |             |
|                    |               |             | ROG      | NOx      | CO      | SO2      | PM10 Total | PM2.5 Total |
| Onsite             |               | 2020 Summer |          |          |         |          |            |             |
|                    | Fugitive Dust |             |          |          |         |          | 0.00E+00   | 0.00E+00    |
|                    | Off-Road      |             | 0.2413   | 4.6646   | 5.2276  | 9.77E-03 | 0.1769     | 0.1769      |
|                    | Total         |             | 0.2413   | 4.6646   | 5.2276  | 9.77E-03 | 1.77E-01   | 1.77E-01    |
| Offsite            |               |             |          |          |         |          |            |             |
|                    | Hauling       |             | 1.7411   | 63.4     | 16.0196 | 0.1765   | 3.9455     | 1.228       |
|                    | Vendor        |             | 0        | 0        | 0       | 0        | 0          | 0           |
|                    | Worker        |             | 0.0115   | 7.26E-03 | 0.0982  | 3.30E-04 | 0.0311     | 8.45E-03    |
|                    | Total         |             | 1.7526   | 63.4073  | 16.1178 | 0.1768   | 3.9767     | 1.2365      |
| TOTAL              |               |             | 1.9939   | 68.0719  | 21.3454 | 0.1866   | 4.1536     | 1.4134      |

|                                  |                    |               |                |                |                 |                 |
|----------------------------------|--------------------|---------------|----------------|----------------|-----------------|-----------------|
| Onsite                           | <b>2020 Winter</b> |               |                |                |                 |                 |
|                                  | Fugitive Dust      |               |                |                | 0.00E+00        | 0.00E+00        |
|                                  | Off-Road           | 0.2413        | 4.6646         | 5.2276         | 9.77E-03        | 0.1769          |
|                                  | Total              | <b>0.2413</b> | <b>4.6646</b>  | <b>5.2276</b>  | <b>9.77E-03</b> | <b>1.77E-01</b> |
| Offsite                          |                    |               |                |                |                 |                 |
|                                  | Hauling            | 1.7844        | 64.1982        | 16.8666        | 0.1738          | 3.9493          |
|                                  | Vendor             | 0             | 0              | 0              | 0               | 0               |
|                                  | Worker             | 0.013         | 7.98E-03       | 0.0908         | 3.10E-04        | 8.45E-03        |
|                                  | Total              | <b>1.7975</b> | <b>64.2062</b> | <b>16.9574</b> | <b>0.1741</b>   | <b>3.9805</b>   |
| <b>TOTAL</b>                     |                    | <b>2.0388</b> | <b>68.8708</b> | <b>22.1850</b> | <b>0.1839</b>   | <b>4.1574</b>   |
|                                  |                    |               |                |                |                 |                 |
| Onsite                           | <b>2020</b>        |               |                |                |                 |                 |
|                                  | Fugitive Dust      | 0             | 0              | 0              | 0               | 0               |
|                                  | Off-Road           | 0.2413        | 4.6646         | 5.2276         | 0.00977         | 0.1769          |
|                                  | Total              | <b>0.2413</b> | <b>4.6646</b>  | <b>5.2276</b>  | <b>0.00977</b>  | <b>0.1769</b>   |
| Offsite                          |                    |               |                |                |                 |                 |
|                                  | Hauling            | 1.7844        | 64.1982        | 16.8666        | 0.1765          | 3.9493          |
|                                  | Vendor             | 0             | 0              | 0              | 0               | 0               |
|                                  | Worker             | 0.013         | 0.00798        | 0.0982         | 0.00033         | 0.00845         |
|                                  | Total              | <b>1.7975</b> | <b>64.2062</b> | <b>16.9574</b> | <b>0.1768</b>   | <b>3.9805</b>   |
| <b>TOTAL</b>                     |                    | <b>2.0388</b> | <b>68.8708</b> | <b>22.1850</b> | <b>0.1866</b>   | <b>4.1574</b>   |
|                                  |                    |               |                |                |                 |                 |
| <b>Rough Grading+Haul (2020)</b> |                    | <b>3.43</b>   | <b>94.51</b>   | <b>51.22</b>   | <b>0.24</b>     | <b>8.55</b>     |
|                                  |                    |               |                |                |                 | <b>3.92</b>     |

|                     |                    |               |               |               |                 |               |
|---------------------|--------------------|---------------|---------------|---------------|-----------------|---------------|
| <b>Fine Grading</b> |                    |               |               |               |                 |               |
|                     |                    | ROG           | NOx           | CO            | SO2             | PM10 Total    |
|                     |                    |               |               |               |                 | PM2.5 Total   |
| Onsite              | <b>2020 Summer</b> |               |               |               |                 |               |
|                     | Fugitive Dust      |               |               |               |                 | 0.2267        |
|                     | Off-Road           | 0.6056        | 8.0507        | 2.3093        | 8.44E-03        | 0.2574        |
|                     | Total              | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.44E-03</b> | <b>0.4841</b> |
| Offsite             |                    |               |               |               |                 |               |
|                     | Hauling            | 0             | 0             | 0             | 0               | 0             |
|                     | Vendor             | 6.39E-03      | 0.2084        | 0.055         | 5.00E-04        | 0.013         |
|                     | Worker             | 0.0231        | 0.0145        | 0.1964        | 6.60E-04        | 0.0623        |
|                     | Total              | <b>0.0295</b> | <b>0.2229</b> | <b>0.2514</b> | <b>1.16E-03</b> | <b>0.0753</b> |
| <b>TOTAL</b>        |                    | <b>0.6351</b> | <b>8.2736</b> | <b>2.5607</b> | <b>0.0096</b>   | <b>0.5594</b> |
|                     |                    |               |               |               |                 |               |
| Onsite              | <b>2020 Winter</b> |               |               |               |                 |               |
|                     | Fugitive Dust      |               |               |               |                 | 0.2267        |
|                     | Off-Road           | 0.6056        | 8.0507        | 2.3093        | 8.44E-03        | 0.2574        |
|                     | Total              | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.44E-03</b> | <b>0.4841</b> |
| Offsite             |                    |               |               |               |                 |               |
|                     | Hauling            | 0             | 0             | 0             | 0               | 0             |
|                     | Vendor             | 6.67E-03      | 0.2083        | 0.0603        | 4.90E-04        | 0.0131        |
|                     | Worker             | 0.0261        | 0.016         | 0.1815        | 6.20E-04        | 0.0623        |
|                     | Total              | <b>0.0327</b> | <b>0.2243</b> | <b>0.2418</b> | <b>1.11E-03</b> | <b>0.0753</b> |
| <b>TOTAL</b>        |                    | <b>0.6383</b> | <b>8.2750</b> | <b>2.5511</b> | <b>0.0096</b>   | <b>0.5594</b> |

|              |               |               |               |               |                |               |               |
|--------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|
| Onsite       |               | <b>2020</b>   |               |               |                |               |               |
|              | Fugitive Dust | 0             | 0             | 0             | 0              | 0.2267        | 0.0245        |
|              | Off-Road      | 0.6056        | 8.0507        | 2.3093        | 0.00844        | 0.2574        | 0.2368        |
|              | Total         | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>0.00844</b> | <b>0.4841</b> | <b>0.2613</b> |
| Offsite      |               |               |               |               |                |               |               |
|              | Hauling       | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Vendor        | 0.00667       | 0.2084        | 0.0603        | 0.0005         | 0.0131        | 0.00453       |
|              | Worker        | 0.0261        | 0.016         | 0.1964        | 0.00066        | 0.0623        | 0.0169        |
|              | Total         | <b>0.0327</b> | <b>0.2243</b> | <b>0.2514</b> | <b>0.00116</b> | <b>0.0753</b> | <b>0.0214</b> |
| <b>TOTAL</b> |               | <b>0.6383</b> | <b>8.2750</b> | <b>2.5607</b> | <b>0.0096</b>  | <b>0.5594</b> | <b>0.2827</b> |

#### Parking Structure Excavation/Shoring/Hauling

|              |               | ROG                | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|---------------|--------------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       |               | <b>2020 Summer</b> |                |                |                 |               |               |
|              | Fugitive Dust |                    |                |                |                 | 0             | 0             |
|              | Off-Road      | 1.5283             | 17.6714        | 9.5863         | 0.0358          | 0.6156        | 0.5664        |
|              | Total         | <b>1.5283</b>      | <b>17.6714</b> | <b>9.5863</b>  | <b>0.0358</b>   | <b>0.6156</b> | <b>0.5664</b> |
| Offsite      |               |                    |                |                |                 |               |               |
|              | Hauling       | 0.6607             | 24.0598        | 6.0793         | 0.067           | 1.4973        | 0.466         |
|              | Vendor        | 6.39E-03           | 0.2084         | 0.055          | 5.00E-04        | 0.013         | 4.52E-03      |
|              | Worker        | 0.0769             | 0.0484         | 0.6547         | 2.19E-03        | 0.2075        | 0.0564        |
|              | Total         | <b>0.744</b>       | <b>24.3166</b> | <b>6.7889</b>  | <b>6.97E-02</b> | <b>1.7179</b> | <b>0.5269</b> |
| <b>TOTAL</b> |               | <b>2.2723</b>      | <b>41.9880</b> | <b>16.3752</b> | <b>0.1055</b>   | <b>2.3335</b> | <b>1.0933</b> |

|              |               |                    |                |                |                 |               |               |
|--------------|---------------|--------------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       |               | <b>2020 Winter</b> |                |                |                 |               |               |
|              | Fugitive Dust |                    |                |                |                 | 0             | 0             |
|              | Off-Road      | 1.5283             | 17.6714        | 9.5863         | 0.0358          | 0.6156        | 0.5664        |
|              | Total         | <b>1.5283</b>      | <b>17.6714</b> | <b>9.5863</b>  | <b>0.0358</b>   | <b>0.6156</b> | <b>0.5664</b> |
| Offsite      |               |                    |                |                |                 |               |               |
|              | Hauling       | 0.6772             | 24.3627        | 6.4007         | 0.066           | 1.4987        | 0.4674        |
|              | Vendor        | 6.67E-03           | 0.2083         | 0.0603         | 4.90E-04        | 0.0131        | 4.53E-03      |
|              | Worker        | 0.0869             | 0.0532         | 0.6051         | 2.07E-03        | 0.2075        | 0.0564        |
|              | Total         | <b>0.7707</b>      | <b>24.6242</b> | <b>7.0661</b>  | <b>6.85E-02</b> | <b>1.7193</b> | <b>0.5283</b> |
| <b>TOTAL</b> |               | <b>2.2990</b>      | <b>42.2956</b> | <b>16.6524</b> | <b>0.1043</b>   | <b>2.3349</b> | <b>1.0947</b> |

|              |               |               |                |                |               |               |               |
|--------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|
| Onsite       |               | <b>2020</b>   |                |                |               |               |               |
|              | Fugitive Dust | 0             | 0              | 0              | 0             | 0             | 0             |
|              | Off-Road      | 1.5283        | 17.6714        | 9.5863         | 0.0358        | 0.6156        | 0.5664        |
|              | Total         | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b>  | <b>0.0358</b> | <b>0.6156</b> | <b>0.5664</b> |
| Offsite      |               |               |                |                |               |               |               |
|              | Hauling       | 0.6772        | 24.3627        | 6.4007         | 0.067         | 1.4987        | 0.4674        |
|              | Vendor        | 0.00667       | 0.2084         | 0.0603         | 0.0005        | 0.0131        | 0.00453       |
|              | Worker        | 0.0869        | 0.0532         | 0.6547         | 0.00219       | 0.2075        | 0.0564        |
|              | Total         | <b>0.7707</b> | <b>24.6242</b> | <b>7.0661</b>  | <b>0.0697</b> | <b>1.7193</b> | <b>0.5283</b> |
| <b>TOTAL</b> |               | <b>2.2990</b> | <b>42.2956</b> | <b>16.6524</b> | <b>0.1055</b> | <b>2.3349</b> | <b>1.0947</b> |

|                                           |  |             |              |              |             |             |             |
|-------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Fine Grade &amp; Parking Structure</b> |  | <b>2.94</b> | <b>50.57</b> | <b>19.21</b> | <b>0.12</b> | <b>2.89</b> | <b>1.38</b> |
|-------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|

| Wet Utility Trenching                                       |             |               |                |                |               |                        |
|-------------------------------------------------------------|-------------|---------------|----------------|----------------|---------------|------------------------|
|                                                             |             | ROG           | NOx            | CO             | SO2           | PM10 Total PM2.5 Total |
| Onsite                                                      | 2020 Summer |               |                |                |               |                        |
|                                                             | Off-Road    | 1.4938        | 16.5585        | 10.2054        | 3.71E-02      | 0.6055 0.557           |
|                                                             | Total       | 1.4938        | 16.5585        | 10.2054        | 3.71E-02      | 0.6055 0.557           |
| Offsite                                                     |             |               |                |                |               |                        |
|                                                             | Hauling     | 0             | 0              | 0              | 0             | 0                      |
|                                                             | Vendor      | 1.28E-02      | 0.4167         | 0.11           | 1.00E-03      | 0.0261 9.03E-03        |
|                                                             | Worker      | 0.1307        | 0.0823         | 1.1129         | 3.72E-03      | 0.3528 0.0958          |
|                                                             | Total       | 0.1434        | 0.499          | 1.2229         | 4.72E-03      | 0.3789 0.1048          |
| <b>TOTAL</b>                                                |             | <b>1.6372</b> | <b>17.0575</b> | <b>11.4283</b> | <b>0.0418</b> | <b>0.9844 0.6618</b>   |
| Onsite                                                      | 2020 Winter |               |                |                |               |                        |
|                                                             | Off-Road    | 1.4938        | 16.5585        | 10.2054        | 3.71E-02      | 0.6055 0.557           |
|                                                             | Total       | 1.4938        | 16.5585        | 10.2054        | 3.71E-02      | 0.6055 0.557           |
| Offsite                                                     |             |               |                |                |               |                        |
|                                                             | Hauling     | 0             | 0              | 0              | 0             | 0                      |
|                                                             | Vendor      | 1.33E-02      | 0.4166         | 0.1206         | 9.70E-04      | 0.0261 9.07E-03        |
|                                                             | Worker      | 0.1477        | 0.0905         | 1.0286         | 3.52E-03      | 0.3528 0.0958          |
|                                                             | Total       | 0.161         | 0.507          | 1.1492         | 4.49E-03      | 0.379 0.1049           |
| <b>TOTAL</b>                                                |             | <b>1.6548</b> | <b>17.0655</b> | <b>11.3546</b> | <b>0.0416</b> | <b>0.9845 0.6619</b>   |
| Onsite                                                      | 2020        |               |                |                |               |                        |
|                                                             | Off-Road    | 1.4938        | 16.5585        | 10.2054        | 0.0371        | 0.6055 0.557           |
|                                                             | Total       | 1.4938        | 16.5585        | 10.2054        | 0.0371        | 0.6055 0.557           |
| Offsite                                                     |             |               |                |                |               |                        |
|                                                             | Hauling     | 0             | 0              | 0              | 0             | 0                      |
|                                                             | Vendor      | 0.0133        | 0.4167         | 0.1206         | 0.001         | 0.0261 0.00907         |
|                                                             | Worker      | 0.1477        | 0.0905         | 1.1129         | 0.00372       | 0.3528 0.0958          |
|                                                             | Total       | 0.161         | 0.507          | 1.2229         | 0.00472       | 0.379 0.1049           |
| <b>TOTAL</b>                                                |             | <b>1.6548</b> | <b>17.0655</b> | <b>11.4283</b> | <b>0.0418</b> | <b>0.9845 0.6619</b>   |
| <b>Fine Grading, Parking Structure, &amp; Wet Utilities</b> |             | <b>4.59</b>   | <b>67.64</b>   | <b>30.64</b>   | <b>0.16</b>   | <b>3.88 2.04</b>       |
| <b>Parking Structure &amp; Wet Utilities</b>                |             | <b>3.95</b>   | <b>59.36</b>   | <b>28.08</b>   | <b>0.15</b>   | <b>3.32 1.76</b>       |

| Multi-Use Structure |             |               |                |                |               |                        |
|---------------------|-------------|---------------|----------------|----------------|---------------|------------------------|
|                     |             | ROG           | NOx            | CO             | SO2           | PM10 Total PM2.5 Total |
| Onsite              | 2020 Summer |               |                |                |               |                        |
|                     | Off-Road    | 1.8952        | 19.1157        | 13.5663        | 2.97E-02      | 1.0279 0.9457          |
|                     | Total       | 1.8952        | 19.1157        | 13.5663        | 2.97E-02      | 1.0279 0.9457          |
| Offsite             |             |               |                |                |               |                        |
|                     | Hauling     | 0             | 0              | 0              | 0             | 0                      |
|                     | Vendor      | 2.72E-01      | 8.8551         | 2.3372         | 2.12E-02      | 0.5544 1.92E-01        |
|                     | Worker      | 0.4612        | 0.2905         | 3.9279         | 1.31E-02      | 1.2452 0.3381          |
|                     | Total       | 0.7327        | 9.1456         | 6.2651         | 3.43E-02      | 1.7996 0.5301          |
| <b>TOTAL</b>        |             | <b>2.6279</b> | <b>28.2613</b> | <b>19.8314</b> | <b>0.0640</b> | <b>2.8275 1.4758</b>   |

|         |          |             |         |         |          |            |             |
|---------|----------|-------------|---------|---------|----------|------------|-------------|
| Onsite  |          | 2020 Winter |         |         |          |            |             |
|         | Off-Road | 1.8952      | 19.1157 | 13.5663 | 2.97E-02 | 1.0279     | 0.9457      |
|         | Total    | 1.8952      | 19.1157 | 13.5663 | 2.97E-02 | 1.0279     | 0.9457      |
| Offsite |          |             |         |         |          |            |             |
|         | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|         | Vendor   | 2.84E-01    | 8.8522  | 2.5618  | 2.07E-02 | 0.5552     | 1.93E-01    |
|         | Worker   | 0.5211      | 0.3193  | 3.6305  | 1.24E-02 | 1.2452     | 0.3381      |
|         | Total    | 0.8047      | 9.1714  | 6.1922  | 3.31E-02 | 1.8004     | 0.5308      |
| TOTAL   |          | 2.6999      | 28.2871 | 19.7585 | 0.0628   | 2.8283     | 1.4765      |
|         |          |             |         |         |          |            |             |
| Onsite  |          | 2020        |         |         |          |            |             |
|         | Off-Road | 1.8952      | 19.1157 | 13.5663 | 0.0297   | 1.0279     | 0.9457      |
|         | Total    | 1.8952      | 19.1157 | 13.5663 | 0.0297   | 1.0279     | 0.9457      |
| Offsite |          |             |         |         |          |            |             |
|         | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|         | Vendor   | 0.2836      | 8.8551  | 2.5618  | 0.0212   | 0.5552     | 0.1927      |
|         | Worker   | 0.5211      | 0.3193  | 3.9279  | 0.0131   | 1.2452     | 0.3381      |
|         | Total    | 0.8047      | 9.1714  | 6.2651  | 0.0343   | 1.8004     | 0.5308      |
| TOTAL   |          | 2.6999      | 28.2871 | 19.8314 | 0.0640   | 2.8283     | 1.4765      |
|         |          |             |         |         |          |            |             |
|         |          | ROG         | NOx     | CO      | SO2      | PM10 Total | PM2.5 Total |
| Onsite  |          | 2021 Summer |         |         |          |            |             |
|         | Off-Road | 1.7486      | 17.6537 | 13.4017 | 2.97E-02 | 0.9192     | 0.8456      |
|         | Total    | 1.7486      | 17.6537 | 13.4017 | 2.97E-02 | 0.9192     | 0.8456      |
| Offsite |          |             |         |         |          |            |             |
|         | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|         | Vendor   | 2.27E-01    | 7.9742  | 2.1626  | 2.10E-02 | 0.5247     | 1.64E-01    |
|         | Worker   | 0.4331      | 0.2621  | 3.6448  | 1.27E-02 | 1.2451     | 0.338       |
|         | Total    | 0.6599      | 8.2363  | 5.8074  | 3.36E-02 | 1.7698     | 0.5015      |
| TOTAL   |          | 2.4085      | 25.8900 | 19.2091 | 0.0633   | 2.6890     | 1.3471      |
|         |          |             |         |         |          |            |             |
| Onsite  |          | 2021 Winter |         |         |          |            |             |
|         | Off-Road | 1.7486      | 17.6537 | 13.4017 | 2.97E-02 | 0.9192     | 0.8456      |
|         | Total    | 1.7486      | 17.6537 | 13.4017 | 2.97E-02 | 0.9192     | 0.8456      |
| Offsite |          |             |         |         |          |            |             |
|         | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|         | Vendor   | 2.38E-01    | 7.9554  | 2.3726  | 2.05E-02 | 0.5254     | 1.64E-01    |
|         | Worker   | 0.4904      | 0.288   | 3.3632  | 1.20E-02 | 1.2451     | 0.338       |
|         | Total    | 0.7285      | 8.2434  | 5.7358  | 3.24E-02 | 1.7704     | 0.5021      |
| TOTAL   |          | 2.4771      | 25.8971 | 19.1375 | 0.0621   | 2.6896     | 1.3477      |
|         |          |             |         |         |          |            |             |
| Onsite  |          | 2021        |         |         |          |            |             |
|         | Off-Road | 1.7486      | 17.6537 | 13.4017 | 0.0297   | 0.9192     | 0.8456      |
|         | Total    | 1.7486      | 17.6537 | 13.4017 | 0.0297   | 0.9192     | 0.8456      |
| Offsite |          |             |         |         |          |            |             |
|         | Hauling  | 0           | 0       | 0       | 0        | 0          | 0           |
|         | Vendor   | 0.2381      | 7.9742  | 2.3726  | 0.021    | 0.5254     | 0.1642      |
|         | Worker   | 0.4904      | 0.288   | 3.6448  | 0.0127   | 1.2451     | 0.338       |
|         | Total    | 0.7285      | 8.2434  | 5.8074  | 0.0336   | 1.7704     | 0.5021      |
| TOTAL   |          | 2.4771      | 25.8971 | 19.2091 | 0.0633   | 2.6896     | 1.3477      |

|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       | <b>2022 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.6052        | 16.2515        | 13.2378        | 2.97E-02        | 0.8099        | 0.7451        |
|              | Total              | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>2.97E-02</b> | <b>0.8099</b> | <b>0.7451</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.13E-01      | 7.5442         | 2.0882         | 2.07E-02        | 0.5226        | 1.62E-01      |
|              | Worker             | 0.4093        | 0.2374         | 3.4017         | 1.22E-02        | 1.2449        | 0.3378        |
|              | Total              | <b>0.6226</b> | <b>7.7816</b>  | <b>5.4899</b>  | <b>3.29E-02</b> | <b>1.7675</b> | <b>0.4993</b> |
| <b>TOTAL</b> |                    | <b>2.2278</b> | <b>24.0331</b> | <b>18.7277</b> | <b>0.0626</b>   | <b>2.5774</b> | <b>1.2444</b> |
| Onsite       | <b>2022 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.6052        | 16.2515        | 13.2378        | 2.97E-02        | 0.8099        | 0.7451        |
|              | Total              | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>2.97E-02</b> | <b>0.8099</b> | <b>0.7451</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 2.24E-01      | 7.5212         | 2.2876         | 2.02E-02        | 0.5231        | 1.62E-01      |
|              | Worker             | 0.4646        | 0.2609         | 3.1342         | 1.15E-02        | 1.2449        | 0.3378        |
|              | Total              | <b>0.6885</b> | <b>7.7821</b>  | <b>5.4218</b>  | <b>3.18E-02</b> | <b>1.768</b>  | <b>0.4998</b> |
| <b>TOTAL</b> |                    | <b>2.2937</b> | <b>24.0336</b> | <b>18.6596</b> | <b>0.0615</b>   | <b>2.5779</b> | <b>1.2449</b> |
| Onsite       | <b>2022</b>        |               |                |                |                 |               |               |
|              | Off-Road           | 1.6052        | 16.2515        | 13.2378        | 0.0297          | 0.8099        | 0.7451        |
|              | Total              | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>0.0297</b>   | <b>0.8099</b> | <b>0.7451</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 0.2239        | 7.5442         | 2.2876         | 0.0207          | 0.5231        | 0.162         |
|              | Worker             | 0.4646        | 0.2609         | 3.4017         | 0.0122          | 1.2449        | 0.3378        |
|              | Total              | <b>0.6885</b> | <b>7.7821</b>  | <b>5.4899</b>  | <b>0.0329</b>   | <b>1.768</b>  | <b>0.4998</b> |
| <b>TOTAL</b> |                    | <b>2.2937</b> | <b>24.0336</b> | <b>18.7277</b> | <b>0.0626</b>   | <b>2.5779</b> | <b>1.2449</b> |
|              |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
| Onsite       | <b>2023 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.5206        | 14.9076        | 13.1767        | 2.97E-02        | 0.739         | 0.6799        |
|              | Total              | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>2.97E-02</b> | <b>0.739</b>  | <b>0.6799</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 1.62E-01      | 5.694          | 1.949          | 2.01E-02        | 0.515         | 1.54E-01      |
|              | Worker             | 0.3877        | 0.2156         | 3.1724         | 1.17E-02        | 1.2447        | 0.3377        |
|              | Total              | <b>0.55</b>   | <b>5.9096</b>  | <b>5.1214</b>  | <b>3.18E-02</b> | <b>1.7598</b> | <b>0.4919</b> |
| <b>TOTAL</b> |                    | <b>2.0706</b> | <b>20.8172</b> | <b>18.2981</b> | <b>0.0615</b>   | <b>2.4988</b> | <b>1.1718</b> |
| Onsite       | <b>2023 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road           | 1.5206        | 14.9076        | 13.1767        | 2.97E-02        | 0.739         | 0.6799        |
|              | Total              | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>2.97E-02</b> | <b>0.739</b>  | <b>0.6799</b> |
| Offsite      |                    |               |                |                |                 |               |               |
|              | Hauling            | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor             | 1.71E-01      | 5.6614         | 2.1021         | 1.96E-02        | 0.5154        | 1.55E-01      |
|              | Worker             | 0.4413        | 0.2368         | 2.9183         | 1.11E-02        | 1.2447        | 0.3377        |
|              | Total              | <b>0.6118</b> | <b>5.8982</b>  | <b>5.0204</b>  | <b>3.07E-02</b> | <b>1.7602</b> | <b>0.4923</b> |
| <b>TOTAL</b> |                    | <b>2.1324</b> | <b>20.8058</b> | <b>18.1971</b> | <b>0.0604</b>   | <b>2.4992</b> | <b>1.1722</b> |

|         |          |        |         |         |        |        |        |  |
|---------|----------|--------|---------|---------|--------|--------|--------|--|
| Onsite  |          | 2023   |         |         |        |        |        |  |
|         | Off-Road | 1.5206 | 14.9076 | 13.1767 | 0.0297 | 0.739  | 0.6799 |  |
|         | Total    | 1.5206 | 14.9076 | 13.1767 | 0.0297 | 0.739  | 0.6799 |  |
| Offsite |          |        |         |         |        |        |        |  |
|         | Hauling  | 0      | 0       | 0       | 0      | 0      | 0      |  |
|         | Vendor   | 0.1705 | 5.694   | 2.1021  | 0.0201 | 0.5154 | 0.1547 |  |
|         | Worker   | 0.4413 | 0.2368  | 3.1724  | 0.0117 | 1.2447 | 0.3377 |  |
|         | Total    | 0.6118 | 5.9096  | 5.1214  | 0.0318 | 1.7602 | 0.4923 |  |
| TOTAL   |          | 2.1324 | 20.8172 | 18.2981 | 0.0615 | 2.4992 | 1.1722 |  |

### Structural Concrete

|              |          |                    | ROG           | NOx            | CO             | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|----------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Summer</b> |               |                |                |                 |               |               |
|              | Off-Road |                    | 1.1809        | 13.2563        | 11.3889        | 0.0193          | 0.6366        | 0.5868        |
|              | Paving   |                    | 4.76E-03      |                |                |                 | 0             | 0             |
|              | Total    |                    | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b>   | <b>0.6366</b> | <b>0.5868</b> |
| Offsite      |          |                    |               |                |                |                 |               |               |
|              | Hauling  |                    | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor   |                    | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Worker   |                    | 0.1537        | 0.0968         | 1.3093         | 4.37E-03        | 0.4151        | 0.1127        |
|              | Total    |                    | <b>0.1537</b> | <b>0.0968</b>  | <b>1.3093</b>  | <b>4.37E-03</b> | <b>0.4151</b> | <b>0.1127</b> |
| <b>TOTAL</b> |          |                    | <b>1.3393</b> | <b>13.3531</b> | <b>12.6982</b> | <b>0.0237</b>   | <b>1.0517</b> | <b>0.6995</b> |

|              |          |                    |               |                |                |                 |               |               |
|--------------|----------|--------------------|---------------|----------------|----------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Winter</b> |               |                |                |                 |               |               |
|              | Off-Road |                    | 1.1809        | 13.2563        | 11.3889        | 0.0193          | 0.6366        | 0.5868        |
|              | Paving   |                    | 4.76E-03      |                |                |                 | 0             | 0             |
|              | Total    |                    | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b>   | <b>0.6366</b> | <b>0.5868</b> |
| Offsite      |          |                    |               |                |                |                 |               |               |
|              | Hauling  |                    | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Vendor   |                    | 0             | 0              | 0              | 0               | 0             | 0             |
|              | Worker   |                    | 0.1737        | 0.1064         | 1.2102         | 4.14E-03        | 0.4151        | 0.1127        |
|              | Total    |                    | <b>0.1737</b> | <b>0.1064</b>  | <b>1.2102</b>  | <b>4.14E-03</b> | <b>0.4151</b> | <b>0.1127</b> |
| <b>TOTAL</b> |          |                    | <b>1.3593</b> | <b>13.3627</b> | <b>12.5991</b> | <b>0.0234</b>   | <b>1.0517</b> | <b>0.6995</b> |

|              |          |             |               |                |                |                |               |               |
|--------------|----------|-------------|---------------|----------------|----------------|----------------|---------------|---------------|
| Onsite       |          | <b>2020</b> |               |                |                |                |               |               |
|              | Off-Road |             | 1.1809        | 13.2563        | 11.3889        | 0.0193         | 0.6366        | 0.5868        |
|              | Paving   |             | 0.00476       | 0              | 0              | 0              | 0             | 0             |
|              | Total    |             | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b>  | <b>0.6366</b> | <b>0.5868</b> |
| Offsite      |          |             |               |                |                |                |               |               |
|              | Hauling  |             | 0             | 0              | 0              | 0              | 0             | 0             |
|              | Vendor   |             | 0             | 0              | 0              | 0              | 0             | 0             |
|              | Worker   |             | 0.1737        | 0.1064         | 1.3093         | 0.00437        | 0.4151        | 0.1127        |
|              | Total    |             | <b>0.1737</b> | <b>0.1064</b>  | <b>1.3093</b>  | <b>0.00437</b> | <b>0.4151</b> | <b>0.1127</b> |
| <b>TOTAL</b> |          |             | <b>1.3593</b> | <b>13.3627</b> | <b>12.6982</b> | <b>0.0237</b>  | <b>1.0517</b> | <b>0.6995</b> |

### Wet Utilities, Multi-Use Structure, & Structural Concrete

|             |              |              |             |             |             |
|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>5.71</b> | <b>58.72</b> | <b>43.96</b> | <b>0.13</b> | <b>4.86</b> | <b>2.84</b> |
| <b>4.06</b> | <b>41.65</b> | <b>32.53</b> | <b>0.09</b> | <b>3.88</b> | <b>2.18</b> |

### Multi-Use Structure & Structural Concrete

| Dry Utility Trenching                                                    |          |             |          |        |        |          |            |             |
|--------------------------------------------------------------------------|----------|-------------|----------|--------|--------|----------|------------|-------------|
|                                                                          |          |             | ROG      | NOx    | CO     | SO2      | PM10 Total | PM2.5 Total |
| Onsite                                                                   |          | 2020 Summer |          |        |        |          |            |             |
|                                                                          | Off-Road |             | 0.5415   | 6.1106 | 4.3684 | 1.13E-02 | 0.2356     | 0.2168      |
|                                                                          | Total    |             | 0.5415   | 6.1106 | 4.3684 | 1.13E-02 | 0.2356     | 0.2168      |
| Offsite                                                                  |          |             |          |        |        |          |            |             |
|                                                                          | Hauling  |             | 0        | 0      | 0      | 0        | 0          | 0           |
|                                                                          | Vendor   |             | 6.39E-03 | 0.2084 | 0.055  | 5.00E-04 | 0.013      | 4.52E-03    |
|                                                                          | Worker   |             | 0.0692   | 0.0436 | 0.5892 | 1.97E-03 | 0.1868     | 0.0507      |
|                                                                          | Total    |             | 0.0756   | 0.2519 | 0.6442 | 2.47E-03 | 0.1998     | 0.0552      |
| TOTAL                                                                    |          |             | 0.6171   | 6.3625 | 5.0126 | 0.0138   | 0.4354     | 0.2720      |
| Onsite                                                                   |          | 2020 Winter |          |        |        |          |            |             |
|                                                                          | Off-Road |             | 0.5415   | 6.1106 | 4.3684 | 1.13E-02 | 0.2356     | 0.2168      |
|                                                                          | Total    |             | 0.5415   | 6.1106 | 4.3684 | 1.13E-02 | 0.2356     | 0.2168      |
| Offsite                                                                  |          |             |          |        |        |          |            |             |
|                                                                          | Hauling  |             | 0        | 0      | 0      | 0        | 0          | 0           |
|                                                                          | Vendor   |             | 6.67E-03 | 0.2083 | 0.0603 | 4.90E-04 | 0.0131     | 4.53E-03    |
|                                                                          | Worker   |             | 0.0782   | 0.0479 | 0.5446 | 1.86E-03 | 0.1868     | 0.0507      |
|                                                                          | Total    |             | 0.0848   | 0.2562 | 0.6049 | 2.35E-03 | 0.1999     | 0.0553      |
| TOTAL                                                                    |          |             | 0.6263   | 6.3668 | 4.9733 | 0.0137   | 0.4355     | 0.2721      |
| Onsite                                                                   |          | 2020        | 0.5415   | 6.1106 | 4.3684 | 0.0113   | 0.2356     | 0.2168      |
|                                                                          | Off-Road |             | 0.5415   | 6.1106 | 4.3684 | 0.0113   | 0.2356     | 0.2168      |
| Offsite                                                                  |          |             | 0        | 0      | 0      | 0        | 0          | 0           |
|                                                                          | Hauling  |             | 0.00667  | 0.2084 | 0.0603 | 0.0005   | 0.0131     | 0.00453     |
|                                                                          | Vendor   |             | 0.0782   | 0.0479 | 0.5892 | 0.00197  | 0.1868     | 0.0507      |
|                                                                          | Worker   |             | 0.0848   | 0.2562 | 0.6442 | 0.00247  | 0.1999     | 0.0553      |
|                                                                          | Total    |             | 0.6263   | 6.3668 | 5.0126 | 0.0138   | 0.4355     | 0.2721      |
| TOTAL                                                                    |          |             | 0.6263   | 6.3668 | 5.0126 | 0.0138   | 0.4355     | 0.2721      |
| Wet Utilities, Multi-Use Structure, Structural Concrete, & Dry Utilities |          |             | 6.34     | 65.08  | 48.97  | 0.14     | 5.30       | 3.11        |
| Multi-Use Structure, Structural Concrete, & Dry Utilities                |          |             | 4.69     | 48.02  | 37.54  | 0.10     | 4.32       | 2.45        |

| Street Improvements - Balancing / Aggregate Base |          |             |          |         |         |          |            |             |
|--------------------------------------------------|----------|-------------|----------|---------|---------|----------|------------|-------------|
|                                                  |          |             | ROG      | NOx     | CO      | SO2      | PM10 Total | PM2.5 Total |
| Onsite                                           |          | 2020 Summer |          |         |         |          |            |             |
|                                                  | Off-Road |             | 2.1938   | 25.9636 | 15.3699 | 0.0318   | 1.0758     | 0.9897      |
|                                                  | Paving   |             | 0.1991   |         |         |          | 0          | 0           |
|                                                  | Total    |             | 2.3929   | 25.9636 | 15.3699 | 0.0318   | 1.0758     | 0.9897      |
| Offsite                                          |          |             |          |         |         |          |            |             |
|                                                  | Hauling  |             | 0        | 0       | 0       | 0        | 0          | 0           |
|                                                  | Vendor   |             | 6.39E-03 | 0.2084  | 0.055   | 5.00E-04 | 0.013      | 4.52E-03    |
|                                                  | Worker   |             | 0.0615   | 0.0387  | 0.5237  | 1.75E-03 | 0.166      | 0.0451      |
|                                                  | Total    |             | 0.0679   | 0.2471  | 0.5787  | 2.25E-03 | 0.1791     | 0.0496      |
| TOTAL                                            |          |             | 2.4608   | 26.2107 | 15.9486 | 0.0341   | 1.2549     | 1.0393      |

|                                                            |          |             |         |         |          |        |          |
|------------------------------------------------------------|----------|-------------|---------|---------|----------|--------|----------|
| Onsite                                                     |          | 2020 Winter |         |         |          |        |          |
|                                                            | Off-Road | 2.1938      | 25.9636 | 15.3699 | 0.0318   | 1.0758 | 0.9897   |
|                                                            | Paving   | 0.1991      |         |         |          | 0      | 0        |
|                                                            | Total    | 2.3929      | 25.9636 | 15.3699 | 0.0318   | 1.0758 | 0.9897   |
| Offsite                                                    |          |             |         |         |          |        |          |
|                                                            | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|                                                            | Vendor   | 6.67E-03    | 0.2083  | 0.0603  | 4.90E-04 | 0.0131 | 4.53E-03 |
|                                                            | Worker   | 0.0695      | 0.0426  | 0.4841  | 1.66E-03 | 0.166  | 0.0451   |
|                                                            | Total    | 0.0762      | 0.2509  | 0.5443  | 2.15E-03 | 0.1791 | 0.0496   |
| TOTAL                                                      |          | 2.4691      | 26.2145 | 15.9142 | 0.0340   | 1.2549 | 1.0393   |
| Onsite                                                     |          | 2020        |         |         |          |        |          |
|                                                            | Off-Road | 2.1938      | 25.9636 | 15.3699 | 0.0318   | 1.0758 | 0.9897   |
|                                                            | Paving   | 0.1991      | 0       | 0       | 0        | 0      | 0        |
|                                                            | Total    | 2.3929      | 25.9636 | 15.3699 | 0.0318   | 1.0758 | 0.9897   |
|                                                            |          |             |         |         |          |        |          |
| Offsite                                                    |          |             |         |         |          |        |          |
|                                                            | Hauling  | 0           | 0       | 0       | 0        | 0      | 0        |
|                                                            | Vendor   | 0.00667     | 0.2084  | 0.0603  | 0.0005   | 0.0131 | 0.00453  |
|                                                            | Worker   | 0.0695      | 0.0426  | 0.5237  | 0.00175  | 0.166  | 0.0451   |
|                                                            | Total    | 0.0762      | 0.2509  | 0.5787  | 0.00225  | 0.1791 | 0.0496   |
| TOTAL                                                      |          | 2.4691      | 26.2145 | 15.9486 | 0.0341   | 1.2549 | 1.0393   |
| Multi-Use Structure, Structural Concrete, & Aggregate Base |          | 6.53        | 67.86   | 48.48   | 0.12     | 5.13   | 3.22     |

| Street Improvements - Curb & Gutter |          |             |        |        |          |            |             |
|-------------------------------------|----------|-------------|--------|--------|----------|------------|-------------|
|                                     |          | ROG         | NOx    | CO     | SO2      | PM10 Total | PM2.5 Total |
| Onsite                              |          | 2020 Summer |        |        |          |            |             |
|                                     | Off-Road | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Paving   | 0.1991      |        |        |          | 0          | 0           |
|                                     | Total    | 0.1991      | 0      | 0      | 0        | 0          | 0           |
| Offsite                             |          |             |        |        |          |            |             |
|                                     | Hauling  | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Vendor   | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Worker   | 0.0692      | 0.0436 | 0.5892 | 1.97E-03 | 0.1868     | 0.0507      |
|                                     | Total    | 0.0692      | 0.0436 | 0.5892 | 1.97E-03 | 0.1868     | 0.0507      |
|                                     | TOTAL    | 0.2683      | 0.0436 | 0.5892 | 0.0020   | 0.1868     | 0.0507      |
| Onsite                              |          | 2020 Winter |        |        |          |            |             |
|                                     | Off-Road | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Paving   | 0.1991      |        |        |          | 0          | 0           |
|                                     | Total    | 0.1991      | 0      | 0      | 0        | 0          | 0           |
| Offsite                             |          |             |        |        |          |            |             |
|                                     | Hauling  | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Vendor   | 0           | 0      | 0      | 0        | 0          | 0           |
|                                     | Worker   | 0.0782      | 0.0479 | 0.5446 | 1.86E-03 | 0.1868     | 0.0507      |
|                                     | Total    | 0.0782      | 0.0479 | 0.5446 | 1.86E-03 | 0.1868     | 0.0507      |
|                                     | TOTAL    | 0.2773      | 0.0479 | 0.5446 | 0.0019   | 0.1868     | 0.0507      |

|                                                             |          |               |               |               |                |               |               |
|-------------------------------------------------------------|----------|---------------|---------------|---------------|----------------|---------------|---------------|
| Onsite                                                      |          | <b>2020</b>   |               |               |                |               |               |
|                                                             | Off-Road | 0             | 0             | 0             | 0              | 0             | 0             |
|                                                             | Paving   | 0.1991        | 0             | 0             | 0              | 0             | 0             |
|                                                             | Total    | <b>0.1991</b> | <b>0</b>      | <b>0</b>      | <b>0</b>       | <b>0</b>      | <b>0</b>      |
| Offsite                                                     |          |               |               |               |                |               |               |
|                                                             | Hauling  | 0             | 0             | 0             | 0              | 0             | 0             |
|                                                             | Vendor   | 0             | 0             | 0             | 0              | 0             | 0             |
|                                                             | Worker   | 0.0782        | 0.0479        | 0.5892        | 0.00197        | 0.1868        | 0.0507        |
|                                                             | Total    | <b>0.0782</b> | <b>0.0479</b> | <b>0.5892</b> | <b>0.00197</b> | <b>0.1868</b> | <b>0.0507</b> |
| <b>TOTAL</b>                                                |          | <b>0.2773</b> | <b>0.0479</b> | <b>0.5892</b> | <b>0.0020</b>  | <b>0.1868</b> | <b>0.0507</b> |
| <b>Multi-Use Structure, Structural Concrete, &amp; Curb</b> |          | <b>4.34</b>   | <b>41.70</b>  | <b>33.12</b>  | <b>0.09</b>    | <b>4.07</b>   | <b>2.23</b>   |

### Asphalt Paving

|              |          | ROG                | NOx            | CO            | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|----------|--------------------|----------------|---------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Summer</b> |                |               |                 |               |               |
|              | Off-Road | 1.2414             | 14.6521        | 8.7696        | 0.0183          | 0.6216        | 0.5719        |
|              | Paving   | 0.4978             |                |               |                 | 0             | 0             |
|              | Total    | <b>1.7392</b>      | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b>   | <b>0.6216</b> | <b>0.5719</b> |
| Offsite      |          |                    |                |               |                 |               |               |
|              | Hauling  | 0                  | 0              | 0             | 0               | 0             | 0             |
|              | Vendor   | 0                  | 0              | 0             | 0               | 0             | 0             |
|              | Worker   | 0.0461             | 0.0291         | 0.3928        | 1.31E-03        | 0.1245        | 0.0338        |
|              | Total    | <b>0.0461</b>      | <b>0.0291</b>  | <b>0.3928</b> | <b>1.31E-03</b> | <b>0.1245</b> | <b>0.0338</b> |
| <b>TOTAL</b> |          | <b>1.7853</b>      | <b>14.6812</b> | <b>9.1624</b> | <b>0.0196</b>   | <b>0.7461</b> | <b>0.6057</b> |

|              |          |                    |                |               |                 |               |               |
|--------------|----------|--------------------|----------------|---------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Winter</b> |                |               |                 |               |               |
|              | Off-Road | 1.2414             | 14.6521        | 8.7696        | 0.0183          | 0.6216        | 0.5719        |
|              | Paving   | 0.4978             |                |               |                 | 0             | 0             |
|              | Total    | <b>1.7392</b>      | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b>   | <b>0.6216</b> | <b>0.5719</b> |
| Offsite      |          |                    |                |               |                 |               |               |
|              | Hauling  | 0                  | 0              | 0             | 0               | 0             | 0             |
|              | Vendor   | 0                  | 0              | 0             | 0               | 0             | 0             |
|              | Worker   | 0.0521             | 0.0319         | 0.363         | 1.24E-03        | 0.1245        | 0.0338        |
|              | Total    | <b>0.0521</b>      | <b>0.0319</b>  | <b>0.363</b>  | <b>1.24E-03</b> | <b>0.1245</b> | <b>0.0338</b> |
| <b>TOTAL</b> |          | <b>1.7913</b>      | <b>14.6840</b> | <b>9.1326</b> | <b>0.0195</b>   | <b>0.7461</b> | <b>0.6057</b> |

|              |          |               |                |               |                |               |               |
|--------------|----------|---------------|----------------|---------------|----------------|---------------|---------------|
| Onsite       |          | <b>2020</b>   |                |               |                |               |               |
|              | Off-Road | 1.2414        | 14.6521        | 8.7696        | 0.0183         | 0.6216        | 0.5719        |
|              | Paving   | 0.4978        | 0              | 0             | 0              | 0             | 0             |
|              | Total    | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b>  | <b>0.6216</b> | <b>0.5719</b> |
| Offsite      |          |               |                |               |                |               |               |
|              | Hauling  | 0             | 0              | 0             | 0              | 0             | 0             |
|              | Vendor   | 0             | 0              | 0             | 0              | 0             | 0             |
|              | Worker   | 0.0521        | 0.0319         | 0.3928        | 0.00131        | 0.1245        | 0.0338        |
|              | Total    | <b>0.0521</b> | <b>0.0319</b>  | <b>0.3928</b> | <b>0.00131</b> | <b>0.1245</b> | <b>0.0338</b> |
| <b>TOTAL</b> |          | <b>1.7913</b> | <b>14.6840</b> | <b>9.1624</b> | <b>0.0196</b>  | <b>0.7461</b> | <b>0.6057</b> |

|                                                               |  |             |              |              |             |             |             |
|---------------------------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Paving</b> |  | <b>5.85</b> | <b>56.33</b> | <b>41.69</b> | <b>0.11</b> | <b>4.63</b> | <b>2.78</b> |
|---------------------------------------------------------------|--|-------------|--------------|--------------|-------------|-------------|-------------|

## Street Improvements - Concrete Flatwork

|              |          | ROG                | NOx           | CO            | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|----------|--------------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Summer</b> |               |               |                 |               |               |
|              | Off-Road | 0.2009             | 2.0183        | 2.1857        | 2.98E-03        | 0.1276        | 0.1174        |
|              | Paving   | 0.0905             |               |               |                 | 0             | 0             |
|              | Total    | <b>0.2914</b>      | <b>2.0183</b> | <b>2.1857</b> | <b>2.98E-03</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |          |                    |               |               |                 |               |               |
|              | Hauling  | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Vendor   | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Worker   | 0.0615             | 0.0387        | 0.5237        | 1.75E-03        | 0.166         | 0.0451        |
|              | Total    | <b>0.0615</b>      | <b>0.0387</b> | <b>0.5237</b> | <b>1.75E-03</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |          | <b>0.3529</b>      | <b>2.0570</b> | <b>2.7094</b> | <b>0.0047</b>   | <b>0.2936</b> | <b>0.1625</b> |

|              |          |                    |               |               |                 |               |               |
|--------------|----------|--------------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       |          | <b>2020 Winter</b> |               |               |                 |               |               |
|              | Off-Road | 0.2009             | 2.0183        | 2.1857        | 2.98E-03        | 0.1276        | 0.1174        |
|              | Paving   | 0.0905             |               |               |                 | 0             | 0             |
|              | Total    | <b>0.2914</b>      | <b>2.0183</b> | <b>2.1857</b> | <b>2.98E-03</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |          |                    |               |               |                 |               |               |
|              | Hauling  | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Vendor   | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Worker   | 0.0695             | 0.0426        | 0.4841        | 1.66E-03        | 0.166         | 0.0451        |
|              | Total    | <b>0.0695</b>      | <b>0.0426</b> | <b>0.4841</b> | <b>1.66E-03</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |          | <b>0.3609</b>      | <b>2.0609</b> | <b>2.6698</b> | <b>0.0046</b>   | <b>0.2936</b> | <b>0.1625</b> |

|              |          |               |               |               |                |               |               |
|--------------|----------|---------------|---------------|---------------|----------------|---------------|---------------|
| Onsite       |          | <b>2020</b>   |               |               |                |               |               |
|              | Off-Road | 0.2009        | 2.0183        | 2.1857        | 0.00298        | 0.1276        | 0.1174        |
|              | Paving   | 0.0905        | 0             | 0             | 0              | 0             | 0             |
|              | Total    | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>0.00298</b> | <b>0.1276</b> | <b>0.1174</b> |
| Offsite      |          |               |               |               |                |               |               |
|              | Hauling  | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Vendor   | 0             | 0             | 0             | 0              | 0             | 0             |
|              | Worker   | 0.0695        | 0.0426        | 0.5237        | 0.00175        | 0.166         | 0.0451        |
|              | Total    | <b>0.0695</b> | <b>0.0426</b> | <b>0.5237</b> | <b>0.00175</b> | <b>0.166</b>  | <b>0.0451</b> |
| <b>TOTAL</b> |          | <b>0.3609</b> | <b>2.0609</b> | <b>2.7094</b> | <b>0.0047</b>  | <b>0.2936</b> | <b>0.1625</b> |

## Multi-Use Structure, Structural Concrete, & Concrete

**4.42      43.71      35.24      0.09      4.17      2.34**

## Architectural Coating

|              |                 | ROG                | NOx           | CO            | SO2             | PM10 Total    | PM2.5 Total   |
|--------------|-----------------|--------------------|---------------|---------------|-----------------|---------------|---------------|
| Onsite       |                 | <b>2022 Summer</b> |               |               |                 |               |               |
|              | Archit. Coating | 34.3878            |               |               |                 | 0             | 0             |
|              | Off-Road        | 0.2045             | 1.4085        | 1.8136        | 2.97E-03        | 0.0817        | 0.0817        |
|              | Total           | <b>34.5923</b>     | <b>1.4085</b> | <b>1.8136</b> | <b>2.97E-03</b> | <b>0.0817</b> | <b>0.0817</b> |
| Offsite      |                 |                    |               |               |                 |               |               |
|              | Hauling         | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Vendor          | 0                  | 0             | 0             | 0               | 0             | 0             |
|              | Worker          | 0.0819             | 0.0475        | 0.6804        | 2.44E-03        | 0.249         | 0.0676        |
|              | Total           | <b>0.0819</b>      | <b>0.0475</b> | <b>0.6804</b> | <b>2.44E-03</b> | <b>0.249</b>  | <b>0.0676</b> |
| <b>TOTAL</b> |                 | <b>34.6742</b>     | <b>1.4560</b> | <b>2.4940</b> | <b>0.0054</b>   | <b>0.3307</b> | <b>0.1493</b> |

|              |                 |                |               |               |               |               |
|--------------|-----------------|----------------|---------------|---------------|---------------|---------------|
| Onsite       | 2022 Winter     |                |               |               |               |               |
|              | Archit. Coating | 34.3878        |               |               | 0             | 0             |
|              | Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.97E-03      | 0.0817        |
|              | Total           | 34.5923        | 1.4085        | 1.8136        | 2.97E-03      | 0.0817        |
| Offsite      | Hauling         | 0              | 0             | 0             | 0             | 0             |
|              | Vendor          | 0              | 0             | 0             | 0             | 0             |
|              | Worker          | 0.0929         | 0.0522        | 0.6268        | 2.31E-03      | 0.249         |
|              | Total           | 0.0929         | 0.0522        | 0.6268        | 2.31E-03      | 0.249         |
| <b>TOTAL</b> |                 | <b>34.6852</b> | <b>1.4607</b> | <b>2.4404</b> | <b>0.0053</b> | <b>0.3307</b> |

|              |                 |                |               |               |               |               |
|--------------|-----------------|----------------|---------------|---------------|---------------|---------------|
| Onsite       | 2022            |                |               |               |               |               |
|              | Archit. Coating | 34.3878        | 0             | 0             | 0             | 0             |
|              | Off-Road        | 0.2045         | 1.4085        | 1.8136        | 0.00297       | 0.0817        |
|              | Total           | 34.5923        | 1.4085        | 1.8136        | 0.00297       | 0.0817        |
| Offsite      | Hauling         | 0              | 0             | 0             | 0             | 0             |
|              | Vendor          | 0              | 0             | 0             | 0             | 0             |
|              | Worker          | 0.0929         | 0.0522        | 0.6804        | 0.00244       | 0.249         |
|              | Total           | 0.0929         | 0.0522        | 0.6804        | 0.00244       | 0.249         |
| <b>TOTAL</b> |                 | <b>34.6852</b> | <b>1.4607</b> | <b>2.4940</b> | <b>0.0054</b> | <b>0.3307</b> |

|                                                          |  |              |              |              |             |             |             |
|----------------------------------------------------------|--|--------------|--------------|--------------|-------------|-------------|-------------|
| <b>Building Construction &amp; Architectural Coating</b> |  | <b>36.98</b> | <b>25.49</b> | <b>21.22</b> | <b>0.07</b> | <b>2.91</b> | <b>1.39</b> |
|----------------------------------------------------------|--|--------------|--------------|--------------|-------------|-------------|-------------|

|              |                 |                |               |               |               |               |
|--------------|-----------------|----------------|---------------|---------------|---------------|---------------|
| Onsite       | 2023 Summer     |                |               |               |               |               |
|              | Archit. Coating | 34.3878        |               |               | 0             | 0             |
|              | Off-Road        | 0.1917         | 1.303         | 1.8111        | 2.97E-03      | 0.0708        |
|              | Total           | 34.5795        | 1.303         | 1.8111        | 2.97E-03      | 0.0708        |
| Offsite      | Hauling         | 0              | 0             | 0             | 0             | 0             |
|              | Vendor          | 0              | 0             | 0             | 0             | 0             |
|              | Worker          | 0.0775         | 0.0431        | 0.6345        | 2.34E-03      | 0.249         |
|              | Total           | 0.0775         | 0.0431        | 0.6345        | 2.34E-03      | 0.249         |
| <b>TOTAL</b> |                 | <b>34.6570</b> | <b>1.3461</b> | <b>2.4456</b> | <b>0.0053</b> | <b>0.3198</b> |

|              |                 |                |               |               |               |               |
|--------------|-----------------|----------------|---------------|---------------|---------------|---------------|
| Onsite       | 2023 Winter     |                |               |               |               |               |
|              | Archit. Coating | 34.3878        |               |               | 0             | 0             |
|              | Off-Road        | 0.1917         | 1.303         | 1.8111        | 2.97E-03      | 0.0708        |
|              | Total           | 34.5795        | 1.303         | 1.8111        | 2.97E-03      | 0.0708        |
| Offsite      | Hauling         | 0              | 0             | 0             | 0             | 0             |
|              | Vendor          | 0              | 0             | 0             | 0             | 0             |
|              | Worker          | 0.0883         | 0.0474        | 0.5837        | 2.22E-03      | 0.249         |
|              | Total           | 0.0883         | 0.0474        | 0.5837        | 2.22E-03      | 0.249         |
| <b>TOTAL</b> |                 | <b>34.6678</b> | <b>1.3504</b> | <b>2.3948</b> | <b>0.0052</b> | <b>0.3198</b> |

|                                                                 |                 |                |               |               |                |               |               |
|-----------------------------------------------------------------|-----------------|----------------|---------------|---------------|----------------|---------------|---------------|
| Onsite                                                          |                 | <b>2023</b>    |               |               |                |               |               |
|                                                                 | Archit. Coating | 34.3878        | 0             | 0             | 0              | 0             | 0             |
|                                                                 | Off-Road        | 0.1917         | 1.303         | 1.8111        | 0.00297        | 0.0708        | 0.0708        |
|                                                                 | Total           | <b>34.5795</b> | <b>1.303</b>  | <b>1.8111</b> | <b>0.00297</b> | <b>0.0708</b> | <b>0.0708</b> |
| Offsite                                                         |                 |                |               |               |                |               |               |
|                                                                 | Hauling         | 0              | 0             | 0             | 0              | 0             | 0             |
|                                                                 | Vendor          | 0              | 0             | 0             | 0              | 0             | 0             |
|                                                                 | Worker          | 0.0883         | 0.0474        | 0.6345        | 0.00234        | 0.249         | 0.0675        |
|                                                                 | Total           | <b>0.0883</b>  | <b>0.0474</b> | <b>0.6345</b> | <b>0.00234</b> | <b>0.249</b>  | <b>0.0675</b> |
| <b>TOTAL</b>                                                    |                 | <b>34.6678</b> | <b>1.3504</b> | <b>2.4456</b> | <b>0.0053</b>  | <b>0.3198</b> | <b>0.1383</b> |
| <b><i>Building Construction &amp; Architectural Coating</i></b> |                 | <b>36.80</b>   | <b>22.17</b>  | <b>20.74</b>  | <b>0.07</b>    | <b>2.82</b>   | <b>1.31</b>   |
| <b>MAX DAILY</b>                                                |                 | <b>36.98</b>   | <b>96.77</b>  | <b>70.35</b>  | <b>0.24</b>    | <b>21.19</b>  | <b>5.42</b>   |
| <b>Regional Thresholds</b>                                      |                 | <b>75</b>      | <b>100</b>    | <b>550</b>    | <b>150</b>     | <b>150</b>    | <b>55</b>     |
| Exceeds Thresholds?                                             |                 | No             | No            | No            | No             | No            | No            |

## Localized Construction Emissions Worksheet

\*CalEEMod, Version 2016.3.2

### Building/Asphalt Demolition

|                      |               | NOx            | CO             | PM10 Total    | PM2.5 Total   |
|----------------------|---------------|----------------|----------------|---------------|---------------|
| Onsite               | 2019          |                |                |               |               |
|                      | Fugitive Dust |                |                | 0             | 0             |
|                      | Off-Road      | 67.449         | 49.6748        | 2.8698        | 2.6402        |
|                      | Total         | 67.449         | 49.6748        | 2.8698        | 2.6402        |
| <b>TOTAL</b>         |               | <b>67.4490</b> | <b>49.6748</b> | <b>2.8698</b> | <b>2.6402</b> |
| Onsite               | 2019          |                |                |               |               |
|                      | Fugitive Dust |                |                | 0             | 0             |
|                      | Off-Road      | 67.449         | 49.6748        | 2.8698        | 2.6402        |
|                      | Total         | 67.449         | 49.6748        | 2.8698        | 2.6402        |
| <b>TOTAL</b>         |               | <b>67.4490</b> | <b>49.6748</b> | <b>2.8698</b> | <b>2.6402</b> |
| Onsite               | 2019          |                |                |               |               |
|                      | Off-Road      | 67.449         | 49.6748        | 2.8698        | 2.6402        |
|                      | Total         | 67.449         | 49.6748        | 2.8698        | 2.6402        |
|                      | <b>TOTAL</b>  | <b>67.4490</b> | <b>49.6748</b> | <b>2.8698</b> | <b>2.6402</b> |
| <b>3.0-Acre LSTs</b> |               | <b>153</b>     | <b>1,212</b>   | <b>238</b>    | <b>152</b>    |
| <b>Exceeds LSTs?</b> |               | <b>No</b>      | <b>No</b>      | <b>No</b>     | <b>No</b>     |

### Building Demolition Debris Haul

|                                      |               | NOx           | CO            | PM10 Total    | PM2.5 Total   |
|--------------------------------------|---------------|---------------|---------------|---------------|---------------|
| Onsite                               | 2019          |               |               |               |               |
|                                      | Fugitive Dust |               |               | 4.5202        | 0.6844        |
|                                      | Off-Road      | 3.5786        | 2.2388        | 0.1162        | 0.1069        |
|                                      | Total         | 3.5786        | 2.2388        | 4.6364        | 0.7913        |
| <b>TOTAL</b>                         |               | <b>3.5786</b> | <b>2.2388</b> | <b>4.6364</b> | <b>0.7913</b> |
| Onsite                               | 2019          |               |               |               |               |
|                                      | Fugitive Dust |               |               | 4.5202        | 0.6844        |
|                                      | Off-Road      | 3.5786        | 2.2388        | 0.1162        | 0.1069        |
|                                      | Total         | 3.5786        | 2.2388        | 4.6364        | 0.7913        |
| <b>TOTAL</b>                         |               | <b>3.5786</b> | <b>2.2388</b> | <b>4.6364</b> | <b>0.7913</b> |
| Onsite                               | 2019          |               |               |               |               |
|                                      | Off-Road      | 3.5786        | 2.2388        | 0.1162        | 0.1069        |
|                                      | Total         | 3.5786        | 2.2388        | 4.6364        | 0.7913        |
|                                      | <b>TOTAL</b>  | <b>3.5786</b> | <b>2.2388</b> | <b>4.6364</b> | <b>0.7913</b> |
| <b>Demolition+Building Demo Haul</b> |               | <b>71.03</b>  | <b>51.91</b>  | <b>7.51</b>   | <b>3.43</b>   |
| <b>3.0-Acre LSTs</b>                 |               | <b>153</b>    | <b>1,212</b>  | <b>238</b>    | <b>152</b>    |
| <b>Exceeds LSTs?</b>                 |               | <b>No</b>     | <b>No</b>     | <b>No</b>     | <b>No</b>     |

| Asphalt Demolition Workers                                    |               |               |               |                        |
|---------------------------------------------------------------|---------------|---------------|---------------|------------------------|
|                                                               |               | NOx           | CO            | PM10 Total PM2.5 Total |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Fugitive Dust |               |               |                        |
|                                                               | Off-Road      | 0             | 0             | 0                      |
|                                                               | Total         | 0             | 0             | 0                      |
| <b>TOTAL</b>                                                  |               | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000 0.0000</b>   |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Fugitive Dust |               |               |                        |
|                                                               | Off-Road      | 0             | 0             | 0                      |
|                                                               | Total         | 0             | 0             | 0                      |
| <b>TOTAL</b>                                                  |               | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000 0.0000</b>   |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Off-Road      | 0             | 0             | 0                      |
|                                                               | Total         | 0             | 0             | 0                      |
| <b>TOTAL</b>                                                  |               | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000 0.0000</b>   |
| <b>TOTAL</b>                                                  |               | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000 0.0000</b>   |
| Asphalt Demolition Debris Haul                                |               |               |               |                        |
|                                                               |               | NOx           | CO            | PM10 Total PM2.5 Total |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Fugitive Dust |               |               | 12.1974 1.8468         |
|                                                               | Off-Road      | 3.5786        | 2.2388        | 0.1162 0.1069          |
|                                                               | Total         | 3.5786        | 2.2388        | 12.3136 1.9537         |
| <b>TOTAL</b>                                                  |               | <b>3.5786</b> | <b>2.2388</b> | <b>12.3136 1.9537</b>  |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Fugitive Dust |               |               | 12.1974 1.8468         |
|                                                               | Off-Road      | 3.5786        | 2.2388        | 0.1162 0.1069          |
|                                                               | Total         | 3.5786        | 2.2388        | 12.3136 1.9537         |
| <b>TOTAL</b>                                                  |               | <b>3.5786</b> | <b>2.2388</b> | <b>12.3136 1.9537</b>  |
| Onsite                                                        | 2019          |               |               |                        |
|                                                               | Off-Road      | 3.5786        | 2.2388        | 0.1162 0.1069          |
|                                                               | Total         | 3.5786        | 2.2388        | 12.3136 1.9537         |
| <b>TOTAL</b>                                                  |               | <b>3.5786</b> | <b>2.2388</b> | <b>12.3136 1.9537</b>  |
| <b>Demolition+Building Demo Haul &amp; Asphalt Demo +Haul</b> |               | <b>74.61</b>  | <b>54.15</b>  | <b>19.82 5.39</b>      |
| <b>3.0-Acre LSTs</b>                                          |               | <b>153</b>    | <b>1,212</b>  | <b>238 152</b>         |
| <b>Exceeds LSTs?</b>                                          |               | <b>No</b>     | <b>No</b>     | <b>No No</b>           |

## Site Preparation

|              |               | NOx            | CO             | PM10 Total    | PM2.5 Total   |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust |                |                | 2.5744        | 1.4151        |
|              | Off-Road      | 23.7751        | 16.9274        | 1.0051        | 0.9247        |
|              | Total         | 23.7751        | 16.9274        | 3.5796        | 2.3399        |
| <b>TOTAL</b> |               | <b>23.7751</b> | <b>16.9274</b> | <b>3.5796</b> | <b>2.3399</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust |                |                | 2.5744        | 1.4151        |
|              | Off-Road      | 23.7751        | 16.9274        | 1.0051        | 0.9247        |
|              | Total         | 23.7751        | 16.9274        | 3.5796        | 2.3399        |
| <b>TOTAL</b> |               | <b>23.7751</b> | <b>16.9274</b> | <b>3.5796</b> | <b>2.3399</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust | 0              | 0              | 2.5744        | 1.4151        |
|              | Off-Road      | 23.7751        | 16.9274        | 1.0051        | 0.9247        |
|              | Total         | 23.7751        | 16.9274        | 3.5796        | 2.3399        |
| <b>TOTAL</b> |               | <b>23.7751</b> | <b>16.9274</b> | <b>3.5796</b> | <b>2.3399</b> |

|                                                                          |              |              |              |             |
|--------------------------------------------------------------------------|--------------|--------------|--------------|-------------|
| <b>Demolition+Building Demo Haul, Asphalt Demo+Haul, &amp; Site Prep</b> | <b>98.38</b> | <b>71.08</b> | <b>23.40</b> | <b>7.73</b> |
|--------------------------------------------------------------------------|--------------|--------------|--------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>4.5-Acre LSTs</b> | <b>186</b> | <b>1,586</b> | <b>249</b> | <b>166</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

## Rough Grading

|              |               | NOx            | CO             | PM10 Total    | PM2.5 Total   |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust |                |                | 3.2545        | 1.4886        |
|              | Off-Road      | 58.1082        | 30.1801        | 2.2074        | 2.0308        |
|              | Total         | 58.1082        | 30.1801        | 5.4619        | 3.5194        |
| <b>TOTAL</b> |               | <b>58.1082</b> | <b>30.1801</b> | <b>5.4619</b> | <b>3.5194</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust |                |                | 3.2545        | 1.4886        |
|              | Off-Road      | 58.1082        | 30.1801        | 2.2074        | 2.0308        |
|              | Total         | 58.1082        | 30.1801        | 5.4619        | 3.5194        |
| <b>TOTAL</b> |               | <b>58.1082</b> | <b>30.1801</b> | <b>5.4619</b> | <b>3.5194</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | 2019          |                |                |               |               |
|              | Fugitive Dust | 0              | 0              | 3.2545        | 1.4886        |
|              | Off-Road      | 58.1082        | 30.1801        | 2.2074        | 2.0308        |
|              | Total         | 58.1082        | 30.1801        | 5.4619        | 3.5194        |
| <b>TOTAL</b> |               | <b>58.1082</b> | <b>30.1801</b> | <b>5.4619</b> | <b>3.5194</b> |

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>2.5-Acre LSTs</b> | <b>142</b> | <b>1,087</b> | <b>234</b> | <b>147</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

|              |               | NOx            | CO             | PM10 Total    | PM2.5 Total   |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b>   |                |                |               |               |
|              | Fugitive Dust |                |                | 3.2545        | 1.4886        |
|              | Off-Road      | 55.5857        | 28.8917        | 2.1004        | 1.9324        |
|              | Total         | 55.5857        | 28.8917        | 5.3549        | 3.4209        |
| <b>TOTAL</b> |               | <b>55.5857</b> | <b>28.8917</b> | <b>5.3549</b> | <b>3.4209</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b>   |                |                |               |               |
|              | Fugitive Dust |                |                | 3.2545        | 1.4886        |
|              | Off-Road      | 55.5857        | 28.8917        | 2.1004        | 1.9324        |
|              | Total         | 55.5857        | 28.8917        | 5.3549        | 3.4209        |
| <b>TOTAL</b> |               | <b>55.5857</b> | <b>28.8917</b> | <b>5.3549</b> | <b>3.4209</b> |

|              |               |                |                |               |               |
|--------------|---------------|----------------|----------------|---------------|---------------|
| Onsite       | <b>2020</b>   |                |                |               |               |
|              | Fugitive Dust | 0              | 0              | 3.2545        | 1.4886        |
|              | Off-Road      | 55.5857        | 28.8917        | 2.1004        | 1.9324        |
|              | Total         | 55.5857        | 28.8917        | 5.3549        | 3.4209        |
| <b>TOTAL</b> |               | <b>55.5857</b> | <b>28.8917</b> | <b>5.3549</b> | <b>3.4209</b> |

### Rough Grading Haul

|              |                  | NOx           | CO            | PM10 Total    | PM2.5 Total   |
|--------------|------------------|---------------|---------------|---------------|---------------|
| Onsite       | <b>2019/2020</b> |               |               |               |               |
|              | Fugitive Dust    |               |               | 0.00E+00      | 0.00E+00      |
|              | Off-Road         | 3.1607        | 2.2149        | 0.1041        | 0.0958        |
|              | Total            | 3.1607        | 2.2149        | 1.04E-01      | 9.58E-02      |
| <b>TOTAL</b> |                  | <b>3.1607</b> | <b>2.2149</b> | <b>0.1041</b> | <b>0.0958</b> |

|              |                  |               |               |               |               |
|--------------|------------------|---------------|---------------|---------------|---------------|
| Onsite       | <b>2019/2020</b> |               |               |               |               |
|              | Fugitive Dust    |               |               | 0.00E+00      | 0.00E+00      |
|              | Off-Road         | 3.1607        | 2.2149        | 0.1041        | 0.0958        |
|              | Total            | 3.1607        | 2.2149        | 1.04E-01      | 9.58E-02      |
| <b>TOTAL</b> |                  | <b>3.1607</b> | <b>2.2149</b> | <b>0.1041</b> | <b>0.0958</b> |

|              |                  |               |               |               |               |
|--------------|------------------|---------------|---------------|---------------|---------------|
| Onsite       | <b>2019/2020</b> |               |               |               |               |
|              | Fugitive Dust    | 0             | 0             | 0             | 0             |
|              | Off-Road         | 3.1607        | 2.2149        | 0.1041        | 0.0958        |
|              | Total            | 3.1607        | 2.2149        | 0.1041        | 0.0958        |
| <b>TOTAL</b> |                  | <b>3.1607</b> | <b>2.2149</b> | <b>0.1041</b> | <b>0.0958</b> |

|                                  |  |              |              |             |             |
|----------------------------------|--|--------------|--------------|-------------|-------------|
| <b>Rough Grading+Haul (2019)</b> |  | <b>61.27</b> | <b>32.40</b> | <b>5.57</b> | <b>3.62</b> |
|----------------------------------|--|--------------|--------------|-------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>2.5-Acre LSTs</b> | <b>142</b> | <b>1,087</b> | <b>234</b> | <b>147</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

|                                  |  |              |              |             |             |
|----------------------------------|--|--------------|--------------|-------------|-------------|
| <b>Rough Grading+Haul (2020)</b> |  | <b>58.75</b> | <b>31.11</b> | <b>5.46</b> | <b>3.52</b> |
|----------------------------------|--|--------------|--------------|-------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>2.5-Acre LSTs</b> | <b>142</b> | <b>1,087</b> | <b>234</b> | <b>147</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

| Fine Grading                                                 |               |               |               |                        |
|--------------------------------------------------------------|---------------|---------------|---------------|------------------------|
|                                                              |               | NOx           | CO            | PM10 Total PM2.5 Total |
| Onsite                                                       |               | 2020          |               |                        |
|                                                              | Fugitive Dust |               |               | 0.2267 0.0245          |
|                                                              | Off-Road      | 8.0507        | 2.3093        | 0.2574 0.2368          |
|                                                              | Total         | 8.0507        | 2.3093        | 0.4841 0.2613          |
| <b>TOTAL</b>                                                 |               | <b>8.0507</b> | <b>2.3093</b> | <b>0.4841 0.2613</b>   |
| Onsite                                                       |               | 2020          |               |                        |
|                                                              | Fugitive Dust |               |               | 0.2267 0.0245          |
|                                                              | Off-Road      | 8.0507        | 2.3093        | 0.2574 0.2368          |
|                                                              | Total         | 8.0507        | 2.3093        | 0.4841 0.2613          |
| <b>TOTAL</b>                                                 |               | <b>8.0507</b> | <b>2.3093</b> | <b>0.4841 0.2613</b>   |
| Onsite                                                       |               | 2020          |               |                        |
|                                                              | Fugitive Dust | 0             | 0             | 0.2267 0.0245          |
|                                                              | Off-Road      | 8.0507        | 2.3093        | 0.2574 0.2368          |
|                                                              | Total         | 8.0507        | 2.3093        | 0.4841 0.2613          |
| <b>TOTAL</b>                                                 |               | <b>8.0507</b> | <b>2.3093</b> | <b>0.4841 0.2613</b>   |
|                                                              | <1-Acre LSTs  | 92            | 647           | 220 133                |
|                                                              | Exceeds LSTs? | No            | No            | No No                  |
| <b>Rough Grading, Rough Grading Haul, &amp; Fine Grading</b> |               |               |               |                        |
|                                                              |               | 66.80         | 33.42         | 5.94 3.78              |
|                                                              | 3.0-Acre LSTs | 153           | 1,212         | 238 152                |
|                                                              | Exceeds LSTs? | No            | No            | No No                  |
| <b>Rough Grading Haul &amp; Fine Grading</b>                 |               |               |               |                        |
|                                                              |               | 11.21         | 4.52          | 0.59 0.36              |
|                                                              | <1-Acre LSTs  | 92            | 647           | 220 133                |
|                                                              | Exceeds LSTs? | No            | No            | No No                  |

| Parking Structure Excavation/Shoring/Hauling |               |                |               |                        |
|----------------------------------------------|---------------|----------------|---------------|------------------------|
|                                              |               | NOx            | CO            | PM10 Total PM2.5 Total |
| Onsite                                       |               | 2020           |               |                        |
|                                              | Fugitive Dust |                |               | 0 0                    |
|                                              | Off-Road      | 17.6714        | 9.5863        | 0.6156 0.5664          |
|                                              | Total         | 17.6714        | 9.5863        | 0.6156 0.5664          |
| <b>TOTAL</b>                                 |               | <b>17.6714</b> | <b>9.5863</b> | <b>0.6156 0.5664</b>   |
| Onsite                                       |               | 2020           |               |                        |
|                                              | Fugitive Dust |                |               | 0 0                    |
|                                              | Off-Road      | 17.6714        | 9.5863        | 0.6156 0.5664          |
|                                              | Total         | 17.6714        | 9.5863        | 0.6156 0.5664          |
| <b>TOTAL</b>                                 |               | <b>17.6714</b> | <b>9.5863</b> | <b>0.6156 0.5664</b>   |

|              |               |      |                |               |               |               |
|--------------|---------------|------|----------------|---------------|---------------|---------------|
| Onsite       |               | 2020 |                |               |               |               |
|              | Fugitive Dust |      | 0              | 0             | 0             | 0             |
|              | Off-Road      |      | 17.6714        | 9.5863        | 0.6156        | 0.5664        |
|              | Total         |      | <b>17.6714</b> | <b>9.5863</b> | <b>0.6156</b> | <b>0.5664</b> |
| <b>TOTAL</b> |               |      | <b>17.6714</b> | <b>9.5863</b> | <b>0.6156</b> | <b>0.5664</b> |

|                                           |              |              |             |             |
|-------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Fine Grade &amp; Parking Structure</b> | <b>25.72</b> | <b>11.90</b> | <b>1.10</b> | <b>0.83</b> |
|-------------------------------------------|--------------|--------------|-------------|-------------|

|                      |           |            |            |            |
|----------------------|-----------|------------|------------|------------|
| <b>1.0-Acre LSTs</b> | <b>92</b> | <b>647</b> | <b>220</b> | <b>133</b> |
| <b>Exceeds LSTs?</b> | <b>No</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  |

#### Wet Utility Trenching

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
|              |          |      | NOx            | CO             | PM10 Total    | PM2.5 Total   |
| Onsite       |          | 2020 |                |                |               |               |
|              | Off-Road |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
|              | Total    |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
| <b>TOTAL</b> |          |      | <b>16.5585</b> | <b>10.2054</b> | <b>0.6055</b> | <b>0.5570</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2020 |                |                |               |               |
|              | Off-Road |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
|              | Total    |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
| <b>TOTAL</b> |          |      | <b>16.5585</b> | <b>10.2054</b> | <b>0.6055</b> | <b>0.5570</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2020 |                |                |               |               |
|              | Off-Road |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
|              | Total    |      | 16.5585        | 10.2054        | 0.6055        | 0.557         |
| <b>TOTAL</b> |          |      | <b>16.5585</b> | <b>10.2054</b> | <b>0.6055</b> | <b>0.5570</b> |

|                      |            |            |            |            |
|----------------------|------------|------------|------------|------------|
| <b>1.5-Acre LSTs</b> | <b>112</b> | <b>804</b> | <b>225</b> | <b>138</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  | <b>No</b>  |

|                                                             |              |              |             |             |
|-------------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Fine Grading, Parking Structure, &amp; Wet Utilities</b> | <b>42.28</b> | <b>22.10</b> | <b>1.71</b> | <b>1.38</b> |
|-------------------------------------------------------------|--------------|--------------|-------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>2.5-Acre LSTs</b> | <b>142</b> | <b>1,087</b> | <b>234</b> | <b>147</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

|                                              |              |              |             |             |
|----------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Parking Structure &amp; Wet Utilities</b> | <b>34.23</b> | <b>19.79</b> | <b>1.22</b> | <b>1.12</b> |
|----------------------------------------------|--------------|--------------|-------------|-------------|

|                      |            |            |            |            |
|----------------------|------------|------------|------------|------------|
| <b>2.0-Acre LSTs</b> | <b>131</b> | <b>962</b> | <b>230</b> | <b>143</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  | <b>No</b>  |

| Multi-Use Structure |          |      |         |         |            |             |
|---------------------|----------|------|---------|---------|------------|-------------|
|                     |          |      | NOx     | CO      | PM10 Total | PM2.5 Total |
| Onsite              |          | 2020 |         |         |            |             |
|                     | Off-Road |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
|                     | Total    |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| TOTAL               |          |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| Onsite              |          | 2020 |         |         |            |             |
|                     | Off-Road |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
|                     | Total    |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| TOTAL               |          |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| Onsite              |          | 2020 |         |         |            |             |
|                     | Off-Road |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
|                     | Total    |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| TOTAL               |          |      | 19.1157 | 13.5663 | 1.0279     | 0.9457      |
| 1-Acre or Less LSTs |          |      | 92      | 647     | 220        | 133         |
| Exceeds LSTs?       |          |      | No      | No      | No         | No          |
|                     |          |      | NOx     | CO      | PM10 Total | PM2.5 Total |
| Onsite              |          | 2021 |         |         |            |             |
|                     | Off-Road |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
|                     | Total    |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| TOTAL               |          |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| Onsite              |          | 2021 |         |         |            |             |
|                     | Off-Road |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
|                     | Total    |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| TOTAL               |          |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| Onsite              |          | 2021 |         |         |            |             |
|                     | Off-Road |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
|                     | Total    |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| TOTAL               |          |      | 17.6537 | 13.4017 | 0.9192     | 0.8456      |
| 1-Acre or Less LSTs |          |      | 92      | 647     | 220        | 133         |
| Exceeds LSTs?       |          |      | No      | No      | No         | No          |
|                     |          |      | NOx     | CO      | PM10 Total | PM2.5 Total |
| Onsite              |          | 2022 |         |         |            |             |
|                     | Off-Road |      | 16.2515 | 13.2378 | 0.8099     | 0.7451      |
|                     | Total    |      | 16.2515 | 13.2378 | 0.8099     | 0.7451      |
| TOTAL               |          |      | 16.2515 | 13.2378 | 0.8099     | 0.7451      |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2022 |                |                |               |               |
|              | Off-Road |      | 16.2515        | 13.2378        | 0.8099        | 0.7451        |
|              | Total    |      | 16.2515        | 13.2378        | 0.8099        | 0.7451        |
| <b>TOTAL</b> |          |      | <b>16.2515</b> | <b>13.2378</b> | <b>0.8099</b> | <b>0.7451</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2022 |                |                |               |               |
|              | Off-Road |      | 16.2515        | 13.2378        | 0.8099        | 0.7451        |
|              | Total    |      | 16.2515        | 13.2378        | 0.8099        | 0.7451        |
| <b>TOTAL</b> |          |      | <b>16.2515</b> | <b>13.2378</b> | <b>0.8099</b> | <b>0.7451</b> |

|                            |           |            |            |            |
|----------------------------|-----------|------------|------------|------------|
| <b>1-Acre or Less LSTs</b> | <b>92</b> | <b>647</b> | <b>220</b> | <b>133</b> |
| <b>Exceeds LSTs?</b>       | <b>No</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
|              |          |      | NOx            | CO             | PM10 Total    | PM2.5 Total   |
| Onsite       |          | 2023 |                |                |               |               |
|              | Off-Road |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
|              | Total    |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
| <b>TOTAL</b> |          |      | <b>14.9076</b> | <b>13.1767</b> | <b>0.7390</b> | <b>0.6799</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2023 |                |                |               |               |
|              | Off-Road |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
|              | Total    |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
| <b>TOTAL</b> |          |      | <b>14.9076</b> | <b>13.1767</b> | <b>0.7390</b> | <b>0.6799</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2023 |                |                |               |               |
|              | Off-Road |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
|              | Total    |      | 14.9076        | 13.1767        | 0.739         | 0.6799        |
| <b>TOTAL</b> |          |      | <b>14.9076</b> | <b>13.1767</b> | <b>0.7390</b> | <b>0.6799</b> |

#### Structural Concrete

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
|              |          |      | NOx            | CO             | PM10 Total    | PM2.5 Total   |
| Onsite       |          | 2020 |                |                |               |               |
|              | Off-Road |      | 13.2563        | 11.3889        | 0.6366        | 0.5868        |
|              | Paving   |      |                |                | 0             | 0             |
|              | Total    |      | 13.2563        | 11.3889        | 0.6366        | 0.5868        |
| <b>TOTAL</b> |          |      | <b>13.2563</b> | <b>11.3889</b> | <b>0.6366</b> | <b>0.5868</b> |

|              |          |      |                |                |               |               |
|--------------|----------|------|----------------|----------------|---------------|---------------|
| Onsite       |          | 2020 |                |                |               |               |
|              | Off-Road |      | 13.2563        | 11.3889        | 0.6366        | 0.5868        |
|              | Paving   |      |                |                | 0             | 0             |
|              | Total    |      | 13.2563        | 11.3889        | 0.6366        | 0.5868        |
| <b>TOTAL</b> |          |      | <b>13.2563</b> | <b>11.3889</b> | <b>0.6366</b> | <b>0.5868</b> |

|              |          |      |         |         |        |        |
|--------------|----------|------|---------|---------|--------|--------|
| Onsite       |          | 2020 |         |         |        |        |
|              | Off-Road |      | 13.2563 | 11.3889 | 0.6366 | 0.5868 |
|              | Paving   |      | 0       | 0       | 0      | 0      |
|              | Total    |      | 13.2563 | 11.3889 | 0.6366 | 0.5868 |
| <b>TOTAL</b> |          |      | 13.2563 | 11.3889 | 0.6366 | 0.5868 |

|                                                                      |  |  |              |              |             |             |
|----------------------------------------------------------------------|--|--|--------------|--------------|-------------|-------------|
| <b>Wet Utilities, Multi-Use Structure, &amp; Structural Concrete</b> |  |  | <b>48.93</b> | <b>35.16</b> | <b>2.27</b> | <b>2.09</b> |
|----------------------------------------------------------------------|--|--|--------------|--------------|-------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>2.5-Acre LSTs</b> | <b>142</b> | <b>1,087</b> | <b>234</b> | <b>147</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

|                                                      |              |              |             |             |
|------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Multi-Use Structure &amp; Structural Concrete</b> | <b>32.37</b> | <b>24.96</b> | <b>1.66</b> | <b>1.53</b> |
|------------------------------------------------------|--------------|--------------|-------------|-------------|

|                            |           |            |            |            |
|----------------------------|-----------|------------|------------|------------|
| <b>1-Acre or Less LSTs</b> | <b>92</b> | <b>647</b> | <b>220</b> | <b>133</b> |
| <b>Exceeds LSTs?</b>       | <b>No</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  |

### Dry Utility Trenching

|              |          |      |               |               |               |               |
|--------------|----------|------|---------------|---------------|---------------|---------------|
|              |          |      | NOx           | CO            | PM10 Total    | PM2.5 Total   |
| Onsite       |          | 2020 |               |               |               |               |
|              | Off-Road |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
|              | Total    |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
| <b>TOTAL</b> |          |      | <b>6.1106</b> | <b>4.3684</b> | <b>0.2356</b> | <b>0.2168</b> |

|              |          |      |               |               |               |               |
|--------------|----------|------|---------------|---------------|---------------|---------------|
| Onsite       |          | 2020 |               |               |               |               |
|              | Off-Road |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
|              | Total    |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
| <b>TOTAL</b> |          |      | <b>6.1106</b> | <b>4.3684</b> | <b>0.2356</b> | <b>0.2168</b> |

|              |          |      |               |               |               |               |
|--------------|----------|------|---------------|---------------|---------------|---------------|
| Onsite       |          | 2020 | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
|              | Off-Road |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
|              | Total    |      | 6.1106        | 4.3684        | 0.2356        | 0.2168        |
| <b>TOTAL</b> |          |      | <b>6.1106</b> | <b>4.3684</b> | <b>0.2356</b> | <b>0.2168</b> |

|                                                                                     |  |  |              |              |             |             |
|-------------------------------------------------------------------------------------|--|--|--------------|--------------|-------------|-------------|
| <b>Wet Utilities, Multi-Use Structure, Structural Concrete, &amp; Dry Utilities</b> |  |  | <b>55.04</b> | <b>39.53</b> | <b>2.51</b> | <b>2.31</b> |
|-------------------------------------------------------------------------------------|--|--|--------------|--------------|-------------|-------------|

|                      |            |              |            |            |
|----------------------|------------|--------------|------------|------------|
| <b>3.5-Acre LSTs</b> | <b>164</b> | <b>1,336</b> | <b>242</b> | <b>157</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>    | <b>No</b>  | <b>No</b>  |

|                                                                      |              |              |             |             |
|----------------------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Dry Utilities</b> | <b>38.48</b> | <b>29.32</b> | <b>1.90</b> | <b>1.75</b> |
|----------------------------------------------------------------------|--------------|--------------|-------------|-------------|

|                      |            |            |            |            |
|----------------------|------------|------------|------------|------------|
| <b>2.0-Acre LSTs</b> | <b>131</b> | <b>962</b> | <b>230</b> | <b>143</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  | <b>No</b>  |

### Street Improvements - Balancing / Aggregate Base

|              |          | NOx            | CO             | PM10 Total    | PM2.5 Total   |
|--------------|----------|----------------|----------------|---------------|---------------|
| Onsite       | 2020     |                |                |               |               |
|              | Off-Road | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
|              | Paving   |                |                | 0             | 0             |
|              | Total    | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
| <b>TOTAL</b> |          | <b>25.9636</b> | <b>15.3699</b> | <b>1.0758</b> | <b>0.9897</b> |

|              |          |                |                |               |               |
|--------------|----------|----------------|----------------|---------------|---------------|
| Onsite       | 2020     |                |                |               |               |
|              | Off-Road | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
|              | Paving   |                |                | 0             | 0             |
|              | Total    | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
| <b>TOTAL</b> |          | <b>25.9636</b> | <b>15.3699</b> | <b>1.0758</b> | <b>0.9897</b> |

|              |          |                |                |               |               |
|--------------|----------|----------------|----------------|---------------|---------------|
| Onsite       | 2020     |                |                |               |               |
|              | Off-Road | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
|              | Paving   | 0              | 0              | 0             | 0             |
|              | Total    | 25.9636        | 15.3699        | 1.0758        | 0.9897        |
| <b>TOTAL</b> |          | <b>25.9636</b> | <b>15.3699</b> | <b>1.0758</b> | <b>0.9897</b> |

### Multi-Use Structure, Structural Concrete, & Aggregate Base

58.34 40.33 2.74 2.52

3.0-Acre LSTs Exceeds LSTs? 153 No 1,212 No 238 No 152 No

### Street Improvements - Curb & Gutter

|              |          | NOx           | CO            | PM10 Total    | PM2.5 Total   |
|--------------|----------|---------------|---------------|---------------|---------------|
| Onsite       | 2020     |               |               |               |               |
|              | Off-Road | 0             | 0             | 0             | 0             |
|              | Paving   |               |               | 0             | 0             |
|              | Total    | 0             | 0             | 0             | 0             |
| <b>TOTAL</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

|              |          |               |               |               |               |
|--------------|----------|---------------|---------------|---------------|---------------|
| Onsite       | 2020     |               |               |               |               |
|              | Off-Road | 0             | 0             | 0             | 0             |
|              | Paving   |               |               | 0             | 0             |
|              | Total    | 0             | 0             | 0             | 0             |
| <b>TOTAL</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |
|              | Hauling  | 0             | 0             | 0             | 0             |
|              | Vendor   | 0             | 0             | 0             | 0             |
|              | Worker   | 0             | 0             | 0             | 0             |
|              | Total    | 0             | 0             | 0             | 0             |
| <b>TOTAL</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

|                                                             |              |              |             |             |
|-------------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Curb</b> | <b>32.37</b> | <b>24.96</b> | <b>1.66</b> | <b>1.53</b> |
|-------------------------------------------------------------|--------------|--------------|-------------|-------------|

|                            |           |            |            |            |
|----------------------------|-----------|------------|------------|------------|
| <b>1-Acre or Less LSTs</b> | <b>92</b> | <b>647</b> | <b>220</b> | <b>133</b> |
| <b>Exceeds LSTs?</b>       | <b>No</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  |

### Asphalt Paving

|              |          | 2020 | NOx            | CO            | PM10 Total    | PM2.5 Total   |
|--------------|----------|------|----------------|---------------|---------------|---------------|
| Onsite       |          |      |                |               |               |               |
|              | Off-Road |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
|              | Paving   |      |                |               | 0             | 0             |
|              | Total    |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
| <b>TOTAL</b> |          |      | <b>14.6521</b> | <b>8.7696</b> | <b>0.6216</b> | <b>0.5719</b> |

|              |          |      |                |               |               |               |
|--------------|----------|------|----------------|---------------|---------------|---------------|
| Onsite       |          | 2020 |                |               |               |               |
|              | Off-Road |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
|              | Paving   |      |                |               | 0             | 0             |
|              | Total    |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
| <b>TOTAL</b> |          |      | <b>14.6521</b> | <b>8.7696</b> | <b>0.6216</b> | <b>0.5719</b> |

|              |          |      |                |               |               |               |
|--------------|----------|------|----------------|---------------|---------------|---------------|
| Onsite       |          | 2020 |                |               |               |               |
|              | Off-Road |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
|              | Paving   |      | 0              | 0             | 0             | 0             |
|              | Total    |      | 14.6521        | 8.7696        | 0.6216        | 0.5719        |
| <b>TOTAL</b> |          |      | <b>14.6521</b> | <b>8.7696</b> | <b>0.6216</b> | <b>0.5719</b> |

|                                                               |              |              |             |             |
|---------------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Paving</b> | <b>47.02</b> | <b>33.72</b> | <b>2.29</b> | <b>2.10</b> |
|---------------------------------------------------------------|--------------|--------------|-------------|-------------|

|                      |            |            |            |            |
|----------------------|------------|------------|------------|------------|
| <b>1.5-Acre LSTs</b> | <b>112</b> | <b>804</b> | <b>225</b> | <b>138</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  | <b>No</b>  |

### Street Improvements - Concrete Flatwork

|              |          | 2020 | NOx           | CO            | PM10 Total    | PM2.5 Total   |
|--------------|----------|------|---------------|---------------|---------------|---------------|
| Onsite       |          |      |               |               |               |               |
|              | Off-Road |      | 2.0183        | 2.1857        | 0.1276        | 0.1174        |
|              | Paving   |      |               |               | 0             | 0             |
|              | Total    |      | 2.0183        | 2.1857        | 0.1276        | 0.1174        |
| <b>TOTAL</b> |          |      | <b>2.0183</b> | <b>2.1857</b> | <b>0.1276</b> | <b>0.1174</b> |

|              |          |      |               |               |               |               |
|--------------|----------|------|---------------|---------------|---------------|---------------|
| Onsite       |          | 2020 |               |               |               |               |
|              | Off-Road |      | 2.0183        | 2.1857        | 0.1276        | 0.1174        |
|              | Paving   |      |               |               | 0             | 0             |
|              | Total    |      | 2.0183        | 2.1857        | 0.1276        | 0.1174        |
| <b>TOTAL</b> |          |      | <b>2.0183</b> | <b>2.1857</b> | <b>0.1276</b> | <b>0.1174</b> |

|              |          |             |               |               |               |               |
|--------------|----------|-------------|---------------|---------------|---------------|---------------|
| Onsite       |          | <b>2020</b> |               |               |               |               |
|              | Off-Road |             | 2.0183        | 2.1857        | 0.1276        | 0.1174        |
|              | Paving   |             | 0             | 0             | 0             | 0             |
|              | Total    |             | <b>2.0183</b> | <b>2.1857</b> | <b>0.1276</b> | <b>0.1174</b> |
| <b>TOTAL</b> |          |             | <b>2.0183</b> | <b>2.1857</b> | <b>0.1276</b> | <b>0.1174</b> |

|                                                                 |              |              |             |             |
|-----------------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Multi-Use Structure, Structural Concrete, &amp; Concrete</b> | <b>34.39</b> | <b>27.14</b> | <b>1.79</b> | <b>1.65</b> |
|-----------------------------------------------------------------|--------------|--------------|-------------|-------------|

|                      |            |            |            |            |
|----------------------|------------|------------|------------|------------|
| <b>1.5-Acre LSTs</b> | <b>112</b> | <b>804</b> | <b>225</b> | <b>138</b> |
| <b>Exceeds LSTs?</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  | <b>No</b>  |

#### Architectural Coating

|              |                 |             |               |               |               |               |
|--------------|-----------------|-------------|---------------|---------------|---------------|---------------|
|              |                 |             | NOx           | CO            | PM10 Total    | PM2.5 Total   |
| Onsite       |                 | <b>2022</b> |               |               |               |               |
|              | Archit. Coating |             |               |               | 0             | 0             |
|              | Off-Road        |             | 1.4085        | 1.8136        | 0.0817        | 0.0817        |
|              | Total           |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |
| <b>TOTAL</b> |                 |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |

|              |                 |             |               |               |               |               |
|--------------|-----------------|-------------|---------------|---------------|---------------|---------------|
| Onsite       |                 | <b>2022</b> |               |               |               |               |
|              | Archit. Coating |             |               |               | 0             | 0             |
|              | Off-Road        |             | 1.4085        | 1.8136        | 0.0817        | 0.0817        |
|              | Total           |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |
| <b>TOTAL</b> |                 |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |

|              |                 |             |               |               |               |               |
|--------------|-----------------|-------------|---------------|---------------|---------------|---------------|
| Onsite       |                 | <b>2022</b> |               |               |               |               |
|              | Archit. Coating |             | 0             | 0             | 0             | 0             |
|              | Off-Road        |             | 1.4085        | 1.8136        | 0.0817        | 0.0817        |
|              | Total           |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |
| <b>TOTAL</b> |                 |             | <b>1.4085</b> | <b>1.8136</b> | <b>0.0817</b> | <b>0.0817</b> |

|                                                          |              |              |             |             |
|----------------------------------------------------------|--------------|--------------|-------------|-------------|
| <b>Building Construction &amp; Architectural Coating</b> | <b>17.66</b> | <b>15.05</b> | <b>0.89</b> | <b>0.83</b> |
|----------------------------------------------------------|--------------|--------------|-------------|-------------|

|                            |           |            |            |            |
|----------------------------|-----------|------------|------------|------------|
| <b>1-Acre or Less LSTs</b> | <b>92</b> | <b>647</b> | <b>220</b> | <b>133</b> |
| <b>Exceeds LSTs?</b>       | <b>No</b> | <b>No</b>  | <b>No</b>  | <b>No</b>  |

|              |                 |             |               |               |               |               |
|--------------|-----------------|-------------|---------------|---------------|---------------|---------------|
|              |                 |             | NOx           | CO            | PM10 Total    | PM2.5 Total   |
| Onsite       |                 | <b>2023</b> |               |               |               |               |
|              | Archit. Coating |             |               |               | 0             | 0             |
|              | Off-Road        |             | 1.303         | 1.8111        | 0.0708        | 0.0708        |
|              | Total           |             | <b>1.303</b>  | <b>1.8111</b> | <b>0.0708</b> | <b>0.0708</b> |
| <b>TOTAL</b> |                 |             | <b>1.3030</b> | <b>1.8111</b> | <b>0.0708</b> | <b>0.0708</b> |

|              |                 |               |               |               |               |  |
|--------------|-----------------|---------------|---------------|---------------|---------------|--|
| Onsite       |                 | <b>2023</b>   |               |               |               |  |
|              | Archit. Coating |               |               | 0             | 0             |  |
|              | Off-Road        | 1.303         | 1.8111        | 0.0708        | 0.0708        |  |
|              | Total           | 1.303         | 1.8111        | 0.0708        | 0.0708        |  |
| <b>TOTAL</b> |                 | <b>1.3030</b> | <b>1.8111</b> | <b>0.0708</b> | <b>0.0708</b> |  |

|              |                 |               |               |               |               |  |
|--------------|-----------------|---------------|---------------|---------------|---------------|--|
| Onsite       |                 | <b>2023</b>   |               |               |               |  |
|              | Archit. Coating | 0             | 0             | 0             | 0             |  |
|              | Off-Road        | 1.303         | 1.8111        | 0.0708        | 0.0708        |  |
|              | Total           | 1.303         | 1.8111        | 0.0708        | 0.0708        |  |
| <b>TOTAL</b> |                 | <b>1.3030</b> | <b>1.8111</b> | <b>0.0708</b> | <b>0.0708</b> |  |

|                                                          |                            |              |              |             |             |  |
|----------------------------------------------------------|----------------------------|--------------|--------------|-------------|-------------|--|
| <b>Building Construction &amp; Architectural Coating</b> |                            | <b>16.21</b> | <b>14.99</b> | <b>0.81</b> | <b>0.75</b> |  |
|                                                          | <b>1-Acre or Less LSTs</b> | <b>92</b>    | <b>647</b>   | <b>220</b>  | <b>133</b>  |  |
|                                                          | <b>Exceeds LSTs?</b>       | <b>No</b>    | <b>No</b>    | <b>No</b>   | <b>No</b>   |  |

## Existing (2017) Emissions Worksheet\*

\*CalEEMod, Version 2016.3.2

### Criteria Air Pollutants (pounds per day)

#### Summer

|              | ROG           | NOx           | CO             | SO2           | PM10 Total    | PM2.5 Total   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|
| Area         | 0.5095        | 4.70E-04      | 0.0501         | 0             | 1.80E-04      | 1.80E-04      |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.81E-03      | 0.0609        | 0.0609        |
| Mobile       | 2.4131        | 7.5692        | 23.2533        | 0.06          | 4.6435        | 1.2931        |
| <b>Total</b> | <b>3.0107</b> | <b>8.3713</b> | <b>23.9768</b> | <b>0.0648</b> | <b>4.7046</b> | <b>1.3542</b> |

#### Winter

|              | ROG           | NOx           | CO             | SO2           | PM10 Total    | PM2.5 Total  |
|--------------|---------------|---------------|----------------|---------------|---------------|--------------|
| Area         | 0.5095        | 4.70E-04      | 0.0501         | 0             | 1.80E-04      | 1.80E-04     |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.81E-03      | 0.0609        | 0.0609       |
| Mobile       | 2.4031        | 7.7561        | 23.181         | 0.0573        | 4.6444        | 1.2939       |
| <b>Total</b> | <b>3.0007</b> | <b>8.5583</b> | <b>23.9045</b> | <b>0.0621</b> | <b>4.7055</b> | <b>1.355</b> |

#### Max Daily

|              | ROG          | NOx          | CO            | SO2          | PM10 Total   | PM2.5 Total  |
|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Area         | 0.510        | 0.000        | 0.050         | 0.000        | 0.000        | 0.000        |
| Energy       | 0.088        | 0.802        | 0.673         | 0.005        | 0.061        | 0.061        |
| Mobile       | 2.413        | 7.756        | 23.253        | 0.060        | 4.644        | 1.294        |
| <b>Total</b> | <b>3.011</b> | <b>8.558</b> | <b>23.977</b> | <b>0.065</b> | <b>4.706</b> | <b>1.355</b> |

### Greenhouse Gas

#### Sector

|              |               |                               |
|--------------|---------------|-------------------------------|
| Area         | <b>0.0128</b> | MTCO <sub>2</sub> e/Year*     |
| Energy       | <b>388</b>    | MTCO <sub>2</sub> e/Year      |
| Mobile       | <b>846</b>    | MTCO <sub>2</sub> e/Year      |
| Solid Waste  | <b>11</b>     | MTCO <sub>2</sub> e/Year      |
| Water        | <b>2</b>      | MTCO <sub>2</sub> e/Year      |
| <b>Total</b> | <b>1,246</b>  | <b>MTCO<sub>2</sub>e/Year</b> |

\*metric tons of carbon dioxide equivalent per year.

## Regional Operation Emissions Worksheet\*

\*CalEEMod, Version 2016.3.2

### Existing-2019

#### Summer

|              | ROG           | NOx          | CO             | SO2           | PM10 Total    | PM2.5 Total   |
|--------------|---------------|--------------|----------------|---------------|---------------|---------------|
| Area         | 0.5092        | 4.50E-04     | 0.0492         | 0             | 1.80E-04      | 1.80E-04      |
| Energy       | 0.0882        | 0.8017       | 0.6734         | 4.81E-03      | 0.0609        | 0.0609        |
| Mobile       | 1.6121        | 5.6298       | 15.211         | 0.0524        | 4.6082        | 1.2586        |
| <b>Total</b> | <b>2.2095</b> | <b>6.432</b> | <b>15.9336</b> | <b>0.0573</b> | <b>4.6693</b> | <b>1.3197</b> |

#### Winter

|              | ROG           | NOx           | CO             | SO2           | PM10 Total    | PM2.5 Total |
|--------------|---------------|---------------|----------------|---------------|---------------|-------------|
| Area         | 0.5092        | 4.50E-04      | 0.0492         | 0             | 1.80E-04      | 1.80E-04    |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.81E-03      | 0.0609        | 0.0609      |
| Mobile       | 1.5857        | 5.7092        | 15.0516        | 0.0501        | 4.6085        | 1.2589      |
| <b>Total</b> | <b>2.1831</b> | <b>6.5114</b> | <b>15.7743</b> | <b>0.0549</b> | <b>4.6696</b> | <b>1.32</b> |

#### Max Daily

|              | ROG          | NOx          | CO            | SO2          | PM10 Total   | PM2.5 Total  |
|--------------|--------------|--------------|---------------|--------------|--------------|--------------|
| Area         | 0.509        | 0.000        | 0.049         | 0.000        | 0.000        | 0.000        |
| Energy       | 0.088        | 0.802        | 0.673         | 0.005        | 0.061        | 0.061        |
| Mobile       | 1.612        | 5.709        | 15.211        | 0.052        | 4.609        | 1.259        |
| <b>Total</b> | <b>2.210</b> | <b>6.511</b> | <b>15.934</b> | <b>0.057</b> | <b>4.670</b> | <b>1.320</b> |

### Proposed Project

#### Summer

|              | ROG            | NOx            | CO             | SO2           | PM10 Total     | PM2.5 Total   |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|
| Area         | 11.1587        | 6.14E+00       | 31.4067        | 0.0386        | 6.29E-01       | 6.29E-01      |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.30E-03      | 0.0925         | 0.0925        |
| Mobile       | 3.1099         | 5.5817         | 40.8252        | 0.1424        | 15.3312        | 4.1387        |
| <b>Total</b> | <b>14.4024</b> | <b>12.8733</b> | <b>72.7811</b> | <b>0.1882</b> | <b>16.0529</b> | <b>4.8604</b> |

#### Winter

|              | ROG            | NOx            | CO             | SO2          | PM10 Total     | PM2.5 Total   |
|--------------|----------------|----------------|----------------|--------------|----------------|---------------|
| Area         | 11.1587        | 6.14E+00       | 31.4067        | 0.0386       | 6.29E-01       | 6.29E-01      |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.30E-03     | 0.0925         | 0.0925        |
| Mobile       | 3.0446         | 5.852          | 38.8424        | 0.1351       | 15.3314        | 4.1388        |
| <b>Total</b> | <b>14.3371</b> | <b>13.1437</b> | <b>70.7982</b> | <b>0.181</b> | <b>16.0531</b> | <b>4.8605</b> |

#### Max Daily

|              | ROG           | NOx           | CO            | SO2          | PM10 Total    | PM2.5 Total  |
|--------------|---------------|---------------|---------------|--------------|---------------|--------------|
| Area         | 11.159        | 6.140         | 31.407        | 0.039        | 0.629         | 0.629        |
| Energy       | 0.134         | 1.152         | 0.549         | 0.007        | 0.093         | 0.093        |
| Mobile       | 3.110         | 5.852         | 40.825        | 0.142        | 15.331        | 4.139        |
| <b>Total</b> | <b>14.402</b> | <b>13.144</b> | <b>72.781</b> | <b>0.188</b> | <b>16.053</b> | <b>4.861</b> |

**Net Change****Summer**

|              | <b>ROG</b>     | <b>NOx</b>    | <b>CO</b>      | <b>SO2</b>    | <b>PM10 Total</b> | <b>PM2.5 Total</b> |
|--------------|----------------|---------------|----------------|---------------|-------------------|--------------------|
| Area         | 10.6495        | 6.14E+00      | 31.3575        | 0.0386        | 6.29E-01          | 6.29E-01           |
| Energy       | 4.56E-02       | 0.3504        | -0.1242        | 2.49E-03      | 3.16E-02          | 3.16E-02           |
| Mobile       | 1.4978         | -0.0481       | 25.6142        | 0.09          | 10.723            | 2.8801             |
| <b>Total</b> | <b>12.1929</b> | <b>6.4413</b> | <b>56.8475</b> | <b>0.1309</b> | <b>11.3836</b>    | <b>3.5407</b>      |

**Winter**

|              | <b>ROG</b>    | <b>NOx</b>    | <b>CO</b>      | <b>SO2</b>    | <b>PM10 Total</b> | <b>PM2.5 Total</b> |
|--------------|---------------|---------------|----------------|---------------|-------------------|--------------------|
| Area         | 10.6495       | 6.14E+00      | 31.3575        | 0.0386        | 6.29E-01          | 6.29E-01           |
| Energy       | 4.56E-02      | 0.3504        | -0.1242        | 2.49E-03      | 3.16E-02          | 3.16E-02           |
| Mobile       | 1.4589        | 0.1428        | 23.7908        | 0.085         | 10.7229           | 2.8799             |
| <b>Total</b> | <b>12.154</b> | <b>6.6323</b> | <b>55.0239</b> | <b>0.1261</b> | <b>11.3835</b>    | <b>3.5405</b>      |

**Max Daily**

|              | <b>ROG</b>    | <b>NOx</b>   | <b>CO</b>     | <b>SO2</b>   | <b>PM10 Total</b> | <b>PM2.5 Total</b> |
|--------------|---------------|--------------|---------------|--------------|-------------------|--------------------|
| Area         | 10.650        | 6.139        | 31.358        | 0.039        | 0.629             | 0.629              |
| Energy       | 0.046         | 0.350        | -0.124        | 0.002        | 0.032             | 0.032              |
| Mobile       | 1.498         | 0.143        | 25.614        | 0.090        | 10.723            | 2.880              |
| <b>Total</b> | <b>12.193</b> | <b>6.632</b> | <b>56.848</b> | <b>0.131</b> | <b>11.384</b>     | <b>3.541</b>       |

**Regional Thresholds**

|                            |           |           |            |            |            |            |
|----------------------------|-----------|-----------|------------|------------|------------|------------|
| <b>Exceeds Thresholds?</b> | <b>55</b> | <b>55</b> | <b>550</b> | <b>150</b> | <b>150</b> | <b>550</b> |
|                            | No        | No        | No         | No         | No         | No         |

## GHG Emissions Inventory

### Construction

|                           | <b>MTCO<sub>2</sub>e Total*</b> |
|---------------------------|---------------------------------|
| 2019                      | 218                             |
| 2020                      | 1,095                           |
| 2021                      | 755                             |
| 2022                      | 755                             |
| 2023                      | 61                              |
| <b>Total Construction</b> | <b>2,884</b>                    |

\*CalEEMod, Version 2016.3.2.

### Operation\*

| <b>Existing Uses - 2017</b>            |               |                               |
|----------------------------------------|---------------|-------------------------------|
| Area                                   | <b>0.0127</b> | MTCO <sub>2</sub> e/Year**    |
| Energy                                 | <b>388</b>    | MTCO <sub>2</sub> e/Year      |
| Mobile                                 | <b>744</b>    | MTCO <sub>2</sub> e/Year      |
| Solid Waste                            | <b>11</b>     | MTCO <sub>2</sub> e/Year      |
| Water                                  | <b>2</b>      | MTCO <sub>2</sub> e/Year      |
| <b>Total</b>                           | <b>1,144</b>  | <b>MTCO<sub>2</sub>e/Year</b> |
| <b>Proposed Uses</b>                   |               |                               |
| Area                                   | <b>91</b>     | MTCO <sub>2</sub> e/Year**    |
| Energy                                 | <b>1,253</b>  | MTCO <sub>2</sub> e/Year      |
| Mobile                                 | <b>2,145</b>  | MTCO <sub>2</sub> e/Year      |
| Solid Waste                            | <b>96</b>     | MTCO <sub>2</sub> e/Year      |
| Water                                  | <b>156</b>    | MTCO <sub>2</sub> e/Year      |
| Amortized Construction Emissions***    | 96            | MTCO <sub>2</sub> e/Year      |
| <b>Total</b>                           | <b>3,837</b>  | <b>MTCO<sub>2</sub>e/Year</b> |
| <b>Net Change</b>                      |               |                               |
| Area                                   | <b>91</b>     | MTCO <sub>2</sub> e/Year**    |
| Energy                                 | <b>866</b>    | MTCO <sub>2</sub> e/Year      |
| Mobile                                 | <b>1,401</b>  | MTCO <sub>2</sub> e/Year      |
| Solid Waste                            | <b>85</b>     | MTCO <sub>2</sub> e/Year      |
| Water                                  | <b>154</b>    | MTCO <sub>2</sub> e/Year      |
| Amortized Construction Emissions***    | 96            | MTCO <sub>2</sub> e/Year      |
| <b>Total</b>                           | <b>2,693</b>  | <b>MTCO<sub>2</sub>e/Year</b> |
| SCAQMD Bright-Line Screening Threshold | 3,000         | MTCO <sub>2</sub> e/Year      |
| <b>Exceed Threshold?</b>               | <b>No</b>     |                               |

\*CalEEMod, Version 2016.3.2.

\*\* MTCO<sub>2</sub>e=metric tons of carbon dioxide equivalent.

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

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### 2020 Scoping Plan Emissions Inventory

Source: CARB 1990 Inventory. California Air Resources Board. 2007, November. California Greenhouse Gas Inventory (millions of metric tonnes of CO<sub>2</sub> equivalent) — Summary by Economic Sector. <https://www.arb.ca.gov/cc/inventory/1990level/1990data.htm>

| 1990 End Use Sector   | MTCO <sub>2</sub> e | MMTCO <sub>2</sub> e | Notes                         |
|-----------------------|---------------------|----------------------|-------------------------------|
| Electricity           | 94,754,207          | 94.8                 | Removed Industrial            |
| Transportation        | 137,901,182         | 137.9                | On-Road Only                  |
| Landfills             | 7,447,544           | 7.4                  | Landfill                      |
| Wastewater            | 3,183,648           | 3.2                  | Domestic Wastewater Treatment |
| Commercial            | 13,848,597          | 13.8                 | Removed National Security     |
| Residential           | 29,740,487          | 29.7                 | Includes all                  |
| <b>TOTAL LAND USE</b> | <b>286,875,666</b>  | <b>286.9</b>         |                               |

### 2017 Scoping Plan Emissions Inventory

Source: Pathways Main Outputs Final (Dec 2017). California Air Resources Board. 2017, December. The 2017 Climate Change Scoping Plan Update: The Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. [https://www.arb.ca.gov/cc/scopingplan/2030sp\\_pp\\_final.pdf](https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf).

| End Use Sector 2030                         | MMTCO <sub>2</sub> e |                       |        |                | Sector Definition                                                                                                                                                         |
|---------------------------------------------|----------------------|-----------------------|--------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | Reference Scenario   | Scoping Plan Scenario | Change | Percent Change |                                                                                                                                                                           |
| Residential                                 | 46.5                 | 41.4                  | -5.1   | -11.0%         | Residential final energy consumption                                                                                                                                      |
| Commercial                                  | 36.00                | 30.1                  | -5.90  | -16.4%         | Commercial final energy consumption                                                                                                                                       |
| Transportation                              | 123.1                | 105.1                 | -18    | -14.6%         | Transportation energy consumption                                                                                                                                         |
| Industrial*                                 | 33.8                 | 30.7                  | -3.1   | -9.2%          | Industrial manufacturing final energy consumption,                                                                                                                        |
| Oil & Gas Extraction*                       | 19.5                 | 19.4                  | -0.1   | -0.5%          | Energy used in the extraction of oil and gas                                                                                                                              |
| Petroleum Refining*                         | 32.6                 | 32.5                  | -0.1   | -0.3%          | Energy used in petroleum Refining                                                                                                                                         |
| Agriculture                                 | 7.7                  | 6.8                   | -0.9   | -11.7%         | Energy use of physical infrastructure of agriculture, like buildings and pumps                                                                                            |
| Transportation Communications and Utilities | 5.5                  | 5                     | -0.5   | -9.1%          | Transportation Communications and Utilities (TCU) energy supports public infrastructure, like street lighting and waste treatment facilities                              |
| Non-Energy GHGs*                            | 84.3                 | 49.4                  | -34.9  | -41.40%        | Examples of non-energy GHG emissions include methane and N <sub>2</sub> O emissions from agriculture and waste, refrigerant F-gases, and emissions from cement production |
| Solid Waste Non-Energy GHGs                 | 10.7                 | 9.1                   | -1.6   | -14.95%        | Isolated the Solid Waste Subsector                                                                                                                                        |
| Unspecified                                 | 0                    | 0                     | 0      | n/a            |                                                                                                                                                                           |
|                                             | 389                  | 320.4                 | -68.6  | -17.63%        |                                                                                                                                                                           |
| Target                                      | 260                  | 260                   |        |                |                                                                                                                                                                           |
| Gap                                         | -129                 | -60.4                 |        |                |                                                                                                                                                                           |

CARB 2017 Scoping Plan Assumes GAP from the Scoping Plan Scenario is closed by the Cap-and-Trade

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### STATEWIDE SERVICE POPULATION CALCULATIONS

| Population |      |            |
|------------|------|------------|
|            | 2020 | 40,639,392 |
|            | 2021 | 40,980,939 |
|            | 2022 | 41,321,565 |
|            | 2023 | 41,659,526 |
|            | 2024 | 41,994,283 |
|            | 2025 | 42,326,397 |
|            | 2026 | 42,655,695 |
|            | 2027 | 42,981,484 |
|            | 2028 | 43,304,691 |
|            | 2029 | 43,624,393 |
|            | 2030 | 43,939,250 |
|            | 2031 | 44,250,503 |
|            | 2032 | 44,556,617 |
|            | 2033 | 44,856,079 |
|            | 2034 | 45,150,800 |
|            | 2035 | 45,440,735 |
|            | 2036 | 45,726,459 |
|            | 2037 | 46,006,009 |
|            | 2038 | 46,277,743 |
|            | 2039 | 46,544,307 |
|            | 2040 | 46,804,202 |
|            | 2050 | 49,077,801 |

California Department of Finance. 2018, March 8. Report P-1 (County): State and County Total Population Projections, 2010-2060 (1 -year increments). <http://www.dof.ca.gov/Forecasting/Demographics/Projections/>

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### CALIFORNIA SERVICE POPULATION (ESTIMATE)

#### Employment

|      | Total<br>Employment | Farm<br>Employment | Natural<br>Resources and<br>Mining<br>Employment | Manufacturing +<br>Durable<br>Manufacturing<br>Employment | Employment<br>w/o Industrial<br>and<br>Agricultural<br>Sectors |
|------|---------------------|--------------------|--------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| 2020 | 17,630,930          | 418,171            | 22,268                                           | 2,177,747                                                 | 15,012,744                                                     |
| 2021 | 17,787,640          | 417,961            | 22,388                                           | 2,184,418                                                 | 15,162,873                                                     |
| 2022 | 17,939,780          | 418,291            | 22,578                                           | 2,190,008                                                 | 15,308,902                                                     |
| 2023 | 18,083,910          | 418,582            | 22,538                                           | 2,192,829                                                 | 15,449,961                                                     |
| 2024 | 18,224,870          | 418,862            | 22,398                                           | 2,195,081                                                 | 15,588,529                                                     |
| 2025 | 18,370,230          | 419,122            | 22,188                                           | 2,204,979                                                 | 15,723,941                                                     |
| 2026 | 18,511,920          | 419,372            | 22,198                                           | 2,215,447                                                 | 15,854,903                                                     |
| 2027 | 18,648,200          | 419,612            | 22,408                                           | 2,224,416                                                 | 15,981,764                                                     |
| 2028 | 18,808,150          | 419,872            | 22,438                                           | 2,229,397                                                 | 16,136,443                                                     |
| 2029 | 18,971,340          | 420,142            | 22,478                                           | 2,234,398                                                 | 16,294,322                                                     |
| 2030 | 19,137,080          | 420,402            | 22,508                                           | 2,239,408                                                 | 16,454,761                                                     |
| 2031 | 19,299,670          | 420,673            | 22,538                                           | 2,244,399                                                 | 16,612,060                                                     |
| 2032 | 19,458,160          | 420,933            | 22,578                                           | 2,249,420                                                 | 16,765,229                                                     |
| 2033 | 19,615,470          | 421,203            | 22,608                                           | 2,254,441                                                 | 16,917,218                                                     |
| 2034 | 19,770,890          | 421,463            | 22,648                                           | 2,259,502                                                 | 17,067,277                                                     |
| 2035 | 19,924,140          | 421,733            | 22,678                                           | 2,264,562                                                 | 17,215,166                                                     |
| 2036 | 20,078,780          | 421,993            | 22,718                                           | 2,269,643                                                 | 17,364,425                                                     |
| 2037 | 20,235,200          | 422,263            | 22,748                                           | 2,274,724                                                 | 17,515,465                                                     |
| 2038 | 20,395,030          | 422,523            | 22,788                                           | 2,279,835                                                 | 17,669,884                                                     |
| 2039 | 20,551,830          | 422,794            | 22,818                                           | 2,284,955                                                 | 17,821,263                                                     |
| 2040 | 20,709,630          | 423,054            | 22,859                                           | 2,290,086                                                 | 17,973,632                                                     |
| 2050 | 22,371,010          | 425,715            | 23,209                                           | 2,342,246                                                 | 19,579,840                                                     |

California Department of Transportation. 2017. Long-Term Socio-Economic Forecasts by County.

[http://www.dot.ca.gov/hq/tpp/offices/eab/socio\\_economic.html](http://www.dot.ca.gov/hq/tpp/offices/eab/socio_economic.html)

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### Service Population (SP)

|      | Total<br>Employment | Employment<br>w/o Industrial<br>and<br>Agricultural<br>Sectors |
|------|---------------------|----------------------------------------------------------------|
| 2020 | 58,270,322          | 55,652,136                                                     |
| 2021 | 58,768,579          | 56,143,812                                                     |
| 2022 | 59,261,345          | 56,630,467                                                     |
| 2023 | 59,743,436          | 57,109,487                                                     |
| 2024 | 60,219,153          | 57,582,812                                                     |
| 2025 | 60,696,627          | 58,050,338                                                     |
| 2026 | 61,167,615          | 58,510,598                                                     |
| 2027 | 61,629,684          | 58,963,248                                                     |
| 2028 | 62,112,841          | 59,441,134                                                     |
| 2029 | 62,595,733          | 59,918,715                                                     |
| 2030 | 63,076,330          | 60,394,011                                                     |
| 2031 | 63,550,173          | 60,862,563                                                     |
| 2032 | 64,014,777          | 61,321,846                                                     |
| 2033 | 64,471,549          | 61,773,297                                                     |
| 2034 | 64,921,690          | 62,218,077                                                     |
| 2035 | 65,364,875          | 62,655,901                                                     |
| 2036 | 65,805,239          | 63,090,884                                                     |
| 2037 | 66,241,209          | 63,521,474                                                     |
| 2038 | 66,672,773          | 63,947,627                                                     |
| 2039 | 67,096,137          | 64,365,570                                                     |
| 2040 | 67,513,832          | 64,777,834                                                     |
| 2050 | 71,448,811          | 68,657,641                                                     |

### Project Horizon Year Estimate

|                                       | 2022       |
|---------------------------------------|------------|
| 2022 population                       | 41,321,565 |
| 2022 employment (w/o industrial & Ag) | 15,308,902 |
| 2022 SP                               | 56,630,467 |

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### 2030 Scoping Plan - Efficiency Metric

#### Year 2020 Plan-Level

|                                                 |                        |      |
|-------------------------------------------------|------------------------|------|
| 2020 Target (Plan-Level)                        | MMTCO <sub>2</sub> e   | 431  |
| 2020 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 10.6 |
| 2020 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 7.7  |

#### Year 2020 Project-Level

|                                                    |                        |       |
|----------------------------------------------------|------------------------|-------|
| 2020 Target (Project-Level)                        | MMTCO <sub>2</sub> e   | 286.9 |
| 2020 Per Capita Target                             | MTCO <sub>2</sub> e/pc | 7.1   |
| 2020 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 5.2   |

#### Year 2030 Plan-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2030 Target (Plan-Level)                        | MMTCO <sub>2</sub> e   | 260 |
| 2030 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 5.9 |
| 2030 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 4.3 |

#### Year 2030 Project-Level

|                                                    |                        |       |
|----------------------------------------------------|------------------------|-------|
| Land Use Inventory (Project-Level)                 | MMTCO <sub>2</sub> e   | 190.7 |
| 2030 Per Capita Target                             | MTCO <sub>2</sub> e/pc | 4.3   |
| 2030 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 3.2   |

#### Year 2050 Plan-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2050 Target estimated (Plan-Level)              | MMTCO <sub>2</sub> e   | 86  |
| 2050 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 1.8 |
| 2050 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 1.3 |

#### Year 2050 Project-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2050 Target estimated (Plan-Level)              | MMTCO <sub>2</sub> e   | 57  |
| 2050 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 1.2 |
| 2050 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 0.8 |

#### Project Horizon Year Estimate

2022

|                                                    |                        |       |     |
|----------------------------------------------------|------------------------|-------|-----|
| Land Use Inventory (Plan-Level)                    | MMTCO <sub>2</sub> e   | 267.6 | -7% |
| 2023 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 4.73  |     |

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### 2020 Scoping Plan Emissions Inventory

Source: CARB 1990 Inventory. California Air Resources Board. 2007, November. California Greenhouse Gas Inventory (millions of metric tonnes of CO2 equivalent) — Summary by Economic Sector. <https://www.arb.ca.gov/cc/inventory/1990level/1990data.htm>

| 1990 End Use Sector   | MTCO2e             | MMTCO2e      | Notes                         |
|-----------------------|--------------------|--------------|-------------------------------|
| Electricity           | 94,754,207         | 94.8         | Removed Industrial            |
| Transportation        | 137,901,182        | 137.9        | On-Road Only                  |
| Landfills             | 7,447,544          | 7.4          | Landfill                      |
| Wastewater            | 3,183,648          | 3.2          | Domestic Wastewater Treatment |
| Commercial            | 13,848,597         | 13.8         | Removed National Security     |
| Residential           | 29,740,487         | 29.7         | Includes all                  |
| <b>TOTAL LAND USE</b> | <b>286,875,666</b> | <b>286.9</b> |                               |

### 2017 Scoping Plan Emissions Inventory

Source: Pathways Main Outputs Final (Dec 2017). California Air Resources Board. 2017, December. The 2017 Climate Change Scoping Plan Update: The Proposed Strategy for Achieving California's 2030 Greenhouse Gas Target. [https://www.arb.ca.gov/cc/scopingplan/2030sp\\_pp\\_final.pdf](https://www.arb.ca.gov/cc/scopingplan/2030sp_pp_final.pdf).

| End Use Sector 2030                         | MMTCO2e            |                       |        |                | Sector Definition                                                                                                                                            |
|---------------------------------------------|--------------------|-----------------------|--------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | Reference Scenario | Scoping Plan Scenario | Change | Percent Change |                                                                                                                                                              |
| Residential                                 | 46.5               | 41.4                  | -5.1   | -11.0%         | Residential final energy consumption                                                                                                                         |
| Commercial                                  | 36.00              | 30.1                  | -5.90  | -16.4%         | Commercial final energy consumption                                                                                                                          |
| Transportation                              | 123.1              | 105.1                 | -18    | -14.6%         | Transportation energy consumption                                                                                                                            |
| Industrial*                                 | 33.8               | 30.7                  | -3.1   | -9.2%          | Industrial manufacturing final energy consumption,                                                                                                           |
| Oil & Gas Extraction*                       | 19.5               | 19.4                  | -0.1   | -0.5%          | Energy used in the extraction of oil and gas                                                                                                                 |
| Petroleum Refining*                         | 32.6               | 32.5                  | -0.1   | -0.3%          | Energy used in petroleum Refining                                                                                                                            |
| Agriculture                                 | 7.7                | 6.8                   | -0.9   | -11.7%         | Energy use of physical infrastructure of agriculture, like buildings and pumps                                                                               |
| Transportation Communications and Utilities | 5.5                | 5                     | -0.5   | -9.1%          | Transportation Communications and Utilities (TCU) energy supports public infrastructure, like street lighting and waste treatment facilities                 |
| Non-Energy GHGs*                            | 84.3               | 49.4                  | -34.9  | -41.40%        | Examples of non-energy GHG emissions include methane and N2O emissions from agriculture and waste, refrigerant F-gases, and emissions from cement production |
| Solid Waste Non-Energy GHGs                 | 10.7               | 9.1                   | -1.6   | -14.95%        | Isolated the Solid Waste Subsector                                                                                                                           |
| Unspecified                                 | 0                  | 0                     | 0      | n/a            |                                                                                                                                                              |
|                                             | 389                | 320.4                 | -68.6  | -17.63%        |                                                                                                                                                              |
| Target                                      | 260                | 260                   |        |                |                                                                                                                                                              |
| Gap                                         | -129               | -60.4                 |        |                |                                                                                                                                                              |

CARB 2017 Scoping Plan Assumes GAP from the Scoping Plan Scenario is closed by the Cap-and-Trade

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### STATEWIDE SERVICE POPULATION CALCULATIONS

| Population |      |            |
|------------|------|------------|
|            | 2020 | 40,639,392 |
|            | 2021 | 40,980,939 |
|            | 2022 | 41,321,565 |
|            | 2023 | 41,659,526 |
|            | 2024 | 41,994,283 |
|            | 2025 | 42,326,397 |
|            | 2026 | 42,655,695 |
|            | 2027 | 42,981,484 |
|            | 2028 | 43,304,691 |
|            | 2029 | 43,624,393 |
|            | 2030 | 43,939,250 |
|            | 2031 | 44,250,503 |
|            | 2032 | 44,556,617 |
|            | 2033 | 44,856,079 |
|            | 2034 | 45,150,800 |
|            | 2035 | 45,440,735 |
|            | 2036 | 45,726,459 |
|            | 2037 | 46,006,009 |
|            | 2038 | 46,277,743 |
|            | 2039 | 46,544,307 |
|            | 2040 | 46,804,202 |
|            | 2050 | 49,077,801 |

California Department of Finance. 2018, March 8. Report P-1 (County): State and County Total Population Projections, 2010-2060 (1 -year increments). <http://www.dof.ca.gov/Forecasting/Demographics/Projections/>

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### CALIFORNIA SERVICE POPULATION (ESTIMATE)

#### Employment

|      | Total<br>Employment | Farm<br>Employment | Natural<br>Resources and<br>Mining<br>Employment | Manufacturing +<br>Durable<br>Manufacturing<br>Employment | Employment<br>w/o Industrial<br>and<br>Agricultural<br>Sectors |
|------|---------------------|--------------------|--------------------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------|
| 2020 | 17,630,930          | 418,171            | 22,268                                           | 2,177,747                                                 | 15,012,744                                                     |
| 2021 | 17,787,640          | 417,961            | 22,388                                           | 2,184,418                                                 | 15,162,873                                                     |
| 2022 | 17,939,780          | 418,291            | 22,578                                           | 2,190,008                                                 | 15,308,902                                                     |
| 2023 | 18,083,910          | 418,582            | 22,538                                           | 2,192,829                                                 | 15,449,961                                                     |
| 2024 | 18,224,870          | 418,862            | 22,398                                           | 2,195,081                                                 | 15,588,529                                                     |
| 2025 | 18,370,230          | 419,122            | 22,188                                           | 2,204,979                                                 | 15,723,941                                                     |
| 2026 | 18,511,920          | 419,372            | 22,198                                           | 2,215,447                                                 | 15,854,903                                                     |
| 2027 | 18,648,200          | 419,612            | 22,408                                           | 2,224,416                                                 | 15,981,764                                                     |
| 2028 | 18,808,150          | 419,872            | 22,438                                           | 2,229,397                                                 | 16,136,443                                                     |
| 2029 | 18,971,340          | 420,142            | 22,478                                           | 2,234,398                                                 | 16,294,322                                                     |
| 2030 | 19,137,080          | 420,402            | 22,508                                           | 2,239,408                                                 | 16,454,761                                                     |
| 2031 | 19,299,670          | 420,673            | 22,538                                           | 2,244,399                                                 | 16,612,060                                                     |
| 2032 | 19,458,160          | 420,933            | 22,578                                           | 2,249,420                                                 | 16,765,229                                                     |
| 2033 | 19,615,470          | 421,203            | 22,608                                           | 2,254,441                                                 | 16,917,218                                                     |
| 2034 | 19,770,890          | 421,463            | 22,648                                           | 2,259,502                                                 | 17,067,277                                                     |
| 2035 | 19,924,140          | 421,733            | 22,678                                           | 2,264,562                                                 | 17,215,166                                                     |
| 2036 | 20,078,780          | 421,993            | 22,718                                           | 2,269,643                                                 | 17,364,425                                                     |
| 2037 | 20,235,200          | 422,263            | 22,748                                           | 2,274,724                                                 | 17,515,465                                                     |
| 2038 | 20,395,030          | 422,523            | 22,788                                           | 2,279,835                                                 | 17,669,884                                                     |
| 2039 | 20,551,830          | 422,794            | 22,818                                           | 2,284,955                                                 | 17,821,263                                                     |
| 2040 | 20,709,630          | 423,054            | 22,859                                           | 2,290,086                                                 | 17,973,632                                                     |
| 2050 | 22,371,010          | 425,715            | 23,209                                           | 2,342,246                                                 | 19,579,840                                                     |

California Department of Transportation. 2017. Long-Term Socio-Economic Forecasts by County.

[http://www.dot.ca.gov/hq/tpp/offices/eab/socio\\_economic.html](http://www.dot.ca.gov/hq/tpp/offices/eab/socio_economic.html)

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### Service Population (SP)

|      | Total<br>Employment | Employment<br>w/o Industrial<br>and<br>Agricultural<br>Sectors |
|------|---------------------|----------------------------------------------------------------|
| 2020 | 58,270,322          | 55,652,136                                                     |
| 2021 | 58,768,579          | 56,143,812                                                     |
| 2022 | 59,261,345          | 56,630,467                                                     |
| 2023 | 59,743,436          | 57,109,487                                                     |
| 2024 | 60,219,153          | 57,582,812                                                     |
| 2025 | 60,696,627          | 58,050,338                                                     |
| 2026 | 61,167,615          | 58,510,598                                                     |
| 2027 | 61,629,684          | 58,963,248                                                     |
| 2028 | 62,112,841          | 59,441,134                                                     |
| 2029 | 62,595,733          | 59,918,715                                                     |
| 2030 | 63,076,330          | 60,394,011                                                     |
| 2031 | 63,550,173          | 60,862,563                                                     |
| 2032 | 64,014,777          | 61,321,846                                                     |
| 2033 | 64,471,549          | 61,773,297                                                     |
| 2034 | 64,921,690          | 62,218,077                                                     |
| 2035 | 65,364,875          | 62,655,901                                                     |
| 2036 | 65,805,239          | 63,090,884                                                     |
| 2037 | 66,241,209          | 63,521,474                                                     |
| 2038 | 66,672,773          | 63,947,627                                                     |
| 2039 | 67,096,137          | 64,365,570                                                     |
| 2040 | 67,513,832          | 64,777,834                                                     |
| 2050 | 71,448,811          | 68,657,641                                                     |

### Project Horizon Year Estimate

|                                       | 2030       |
|---------------------------------------|------------|
| 2030 population                       | 43,939,250 |
| 2030 employment (w/o industrial & Ag) | 16,454,761 |
| 2030 GP                               | 60,394,011 |

## GHG Emissions Target Setting - Forecasting the 2030 Efficiency Target

### 2030 Scoping Plan - Efficiency Metric

#### Year 2020 Plan-Level

|                                                 |                        |      |
|-------------------------------------------------|------------------------|------|
| 2020 Target (Plan-Level)                        | MMTCO <sub>2</sub> e   | 431  |
| 2020 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 10.6 |
| 2020 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 7.7  |

#### Year 2020 Project-Level

|                                                    |                        |       |
|----------------------------------------------------|------------------------|-------|
| 2020 Target (Project-Level)                        | MMTCO <sub>2</sub> e   | 286.9 |
| 2020 Per Capita Target                             | MTCO <sub>2</sub> e/pc | 7.1   |
| 2020 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 5.2   |

#### Year 2030 Plan-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2030 Target (Plan-Level)                        | MMTCO <sub>2</sub> e   | 260 |
| 2030 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 5.9 |
| 2030 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 4.3 |

#### Year 2030 Project-Level

|                                                    |                        |       |
|----------------------------------------------------|------------------------|-------|
| Land Use Inventory (Project-Level)                 | MMTCO <sub>2</sub> e   | 190.7 |
| 2030 Per Capita Target                             | MTCO <sub>2</sub> e/pc | 4.3   |
| 2030 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 3.2   |

#### Year 2050 Plan-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2050 Target estimated (Plan-Level)              | MMTCO <sub>2</sub> e   | 86  |
| 2050 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 1.8 |
| 2050 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 1.3 |

#### Year 2050 Project-Level

|                                                 |                        |     |
|-------------------------------------------------|------------------------|-----|
| 2050 Target estimated (Plan-Level)              | MMTCO <sub>2</sub> e   | 57  |
| 2050 Per Capita Target                          | MTCO <sub>2</sub> e/pc | 1.2 |
| 2050 Per Service Population Target (Plan-Level) | MTCO <sub>2</sub> e/sp | 0.8 |

#### Project Horizon Year Estimate

2030

|                                                    |                        |       |      |
|----------------------------------------------------|------------------------|-------|------|
| Land Use Inventory (Plan-Level)                    | MMTCO <sub>2</sub> e   | 190.7 | -34% |
| 2040 Per Service Population Target (Project-Level) | MTCO <sub>2</sub> e/sp | 3.16  |      |

Operation\_Existing2017 - Orange County, Annual

## Operation\_Existing2017

### Orange County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2017  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                               | Default Value | New Value |
|-----------------|-------------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                             | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                                | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate                  | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate                  | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate                  | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                     | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                     | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                     | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                     | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                     | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                     | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                     | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                     | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                     | 44.32         | 37.75     |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 485,653.94   | 34,532.00  |
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |                    |                   |
| Area         | 0.0927        | 6.0000e-005   | 6.2600e-003   | 0.0000        |               | 2.0000e-005   | 2.0000e-005   |                | 2.0000e-005   | 2.0000e-005   | 0.0000        | 0.0119            | 0.0119            | 3.0000e-005   | 0.0000             | 0.0128            |
| Energy       | 0.0161        | 0.1463        | 0.1229        | 8.8000e-004   |               | 0.0111        | 0.0111        |                | 0.0111        | 0.0111        | 0.0000        | 385.7567          | 385.7567          | 0.0124        | 4.8500e-003        | 387.5135          |
| Mobile       | 0.3671        | 1.2549        | 3.7011        | 9.2100e-003   | 0.7121        | 0.0121        | 0.7242        | 0.1907         | 0.0114        | 0.2021        | 0.0000        | 844.8910          | 844.8910          | 0.0469        | 0.0000             | 846.0634          |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.2628        | 0.0000            | 4.2628            | 0.2519        | 0.0000             | 10.5609           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.1406        | 1.6482            | 1.7888            | 5.5000e-004   | 3.2000e-004        | 1.8979            |
| <b>Total</b> | <b>0.4759</b> | <b>1.4013</b> | <b>3.8302</b> | <b>0.0101</b> | <b>0.7121</b> | <b>0.0233</b> | <b>0.7354</b> | <b>0.1907</b>  | <b>0.0226</b> | <b>0.2133</b> | <b>4.4034</b> | <b>1,232.3079</b> | <b>1,236.7113</b> | <b>0.3118</b> | <b>5.1700e-003</b> | <b>1,246.0484</b> |

## Mitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |                    |                   |
| Area         | 0.0927        | 6.0000e-005   | 6.2600e-003   | 0.0000        |               | 2.0000e-005   | 2.0000e-005   |                | 2.0000e-005   | 2.0000e-005   | 0.0000        | 0.0119            | 0.0119            | 3.0000e-005   | 0.0000             | 0.0128            |
| Energy       | 0.0161        | 0.1463        | 0.1229        | 8.8000e-004   |               | 0.0111        | 0.0111        |                | 0.0111        | 0.0111        | 0.0000        | 385.7567          | 385.7567          | 0.0124        | 4.8500e-003        | 387.5135          |
| Mobile       | 0.3671        | 1.2549        | 3.7011        | 9.2100e-003   | 0.7121        | 0.0121        | 0.7242        | 0.1907         | 0.0114        | 0.2021        | 0.0000        | 844.8910          | 844.8910          | 0.0469        | 0.0000             | 846.0634          |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.2628        | 0.0000            | 4.2628            | 0.2519        | 0.0000             | 10.5609           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.1406        | 1.6482            | 1.7888            | 5.5000e-004   | 3.2000e-004        | 1.8979            |
| <b>Total</b> | <b>0.4759</b> | <b>1.4013</b> | <b>3.8302</b> | <b>0.0101</b> | <b>0.7121</b> | <b>0.0233</b> | <b>0.7354</b> | <b>0.1907</b>  | <b>0.0226</b> | <b>0.2133</b> | <b>4.4034</b> | <b>1,232.3079</b> | <b>1,236.7113</b> | <b>0.3118</b> | <b>5.1700e-003</b> | <b>1,246.0484</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio-CO2    | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 0.3671  | 1.2549 | 3.7011 | 9.2100e-003 | 0.7121        | 0.0121       | 0.7242     | 0.1907         | 0.0114        | 0.2021      | 0.0000   | 844.8910  | 844.8910  | 0.0469 | 0.0000 | 846.0634 |
| Unmitigated | 0.3671  | 1.2549 | 3.7011 | 9.2100e-003 | 0.7121        | 0.0121       | 0.7242     | 0.1907         | 0.0114        | 0.2021      | 0.0000   | 844.8910  | 844.8910  | 0.0469 | 0.0000 | 846.0634 |

### 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

### 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

#### 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Other Asphalt Surfaces              | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Parking Lot                         | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Quality Restaurant                  | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Strip Mall                          | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |

#### 5.0 Energy Detail

Historical Energy Use: Y

#### 5.1 Mitigation Measures Energy

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 226.4777  | 226.4777  | 9.3500e-003 | 1.9300e-003 | 227.2879 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 226.4777  | 226.4777  | 9.3500e-003 | 1.9300e-003 | 227.2879 |
| NaturalGas Mitigated    | 0.0161  | 0.1463 | 0.1229 | 8.8000e-004 |               | 0.0111       | 0.0111     |                | 0.0111        | 0.0111      | 0.0000   | 159.2791  | 159.2791  | 3.0500e-003 | 2.9200e-003 | 160.2256 |
| NaturalGas Unmitigated  | 0.0161  | 0.1463 | 0.1229 | 8.8000e-004 |               | 0.0111       | 0.0111     |                | 0.0111        | 0.0111      | 0.0000   | 159.2791  | 159.2791  | 3.0500e-003 | 2.9200e-003 | 160.2256 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 422078         | 2.2800e-003   | 0.0207        | 0.0174        | 1.2000e-004        |               | 1.5700e-003   | 1.5700e-003   |                | 1.5700e-003   | 1.5700e-003   | 0.0000        | 22.5237         | 22.5237         | 4.3000e-004        | 4.1000e-004        | 22.6576         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Quality Restaurant                  | 2.54807e+006   | 0.0137        | 0.1249        | 0.1049        | 7.5000e-004        |               | 9.4900e-003   | 9.4900e-003   |                | 9.4900e-003   | 9.4900e-003   | 0.0000        | 135.9748        | 135.9748        | 2.6100e-003        | 2.4900e-003        | 136.7829        |
| Strip Mall                          | 14626.5        | 8.0000e-005   | 7.2000e-004   | 6.0000e-004   | 0.0000             |               | 5.0000e-005   | 5.0000e-005   |                | 5.0000e-005   | 5.0000e-005   | 0.0000        | 0.7805          | 0.7805          | 1.0000e-005        | 1.0000e-005        | 0.7852          |
| <b>Total</b>                        |                | <b>0.0161</b> | <b>0.1463</b> | <b>0.1229</b> | <b>8.7000e-004</b> |               | <b>0.0111</b> | <b>0.0111</b> |                | <b>0.0111</b> | <b>0.0111</b> | <b>0.0000</b> | <b>159.2791</b> | <b>159.2791</b> | <b>3.0500e-003</b> | <b>2.9100e-003</b> | <b>160.2256</b> |

### Mitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 422078         | 2.2800e-003   | 0.0207        | 0.0174        | 1.2000e-004        |               | 1.5700e-003   | 1.5700e-003   |                | 1.5700e-003   | 1.5700e-003   | 0.0000        | 22.5237         | 22.5237         | 4.3000e-004        | 4.1000e-004        | 22.6576         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Quality Restaurant                  | 2.54807e+006   | 0.0137        | 0.1249        | 0.1049        | 7.5000e-004        |               | 9.4900e-003   | 9.4900e-003   |                | 9.4900e-003   | 9.4900e-003   | 0.0000        | 135.9748        | 135.9748        | 2.6100e-003        | 2.4900e-003        | 136.7829        |
| Strip Mall                          | 14626.5        | 8.0000e-005   | 7.2000e-004   | 6.0000e-004   | 0.0000             |               | 5.0000e-005   | 5.0000e-005   |                | 5.0000e-005   | 5.0000e-005   | 0.0000        | 0.7805          | 0.7805          | 1.0000e-005        | 1.0000e-005        | 0.7852          |
| <b>Total</b>                        |                | <b>0.0161</b> | <b>0.1463</b> | <b>0.1229</b> | <b>8.7000e-004</b> |               | <b>0.0111</b> | <b>0.0111</b> |                | <b>0.0111</b> | <b>0.0111</b> | <b>0.0000</b> | <b>159.2791</b> | <b>159.2791</b> | <b>3.0500e-003</b> | <b>2.9100e-003</b> | <b>160.2256</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                                     | Electricity Use | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kWh/yr          | MT/yr           |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 64765.7         | 20.6357         | 8.5000e-004        | 1.8000e-004        | 20.7096         |
| Other Asphalt Surfaces              | 0               | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 161885          | 51.5800         | 2.1300e-003        | 4.4000e-004        | 51.7645         |
| Quality Restaurant                  | 390988          | 124.5773        | 5.1400e-003        | 1.0600e-003        | 125.0229        |
| Strip Mall                          | 93166.1         | 29.6847         | 1.2300e-003        | 2.5000e-004        | 29.7909         |
| <b>Total</b>                        |                 | <b>226.4777</b> | <b>9.3500e-003</b> | <b>1.9300e-003</b> | <b>227.2879</b> |

#### Mitigated

|                                     | Electricity Use | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kWh/yr          | MT/yr           |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 64765.7         | 20.6357         | 8.5000e-004        | 1.8000e-004        | 20.7096         |
| Other Asphalt Surfaces              | 0               | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 161885          | 51.5800         | 2.1300e-003        | 4.4000e-004        | 51.7645         |
| Quality Restaurant                  | 390988          | 124.5773        | 5.1400e-003        | 1.0600e-003        | 125.0229        |
| Strip Mall                          | 93166.1         | 29.6847         | 1.2300e-003        | 2.5000e-004        | 29.7909         |
| <b>Total</b>                        |                 | <b>226.4777</b> | <b>9.3500e-003</b> | <b>1.9300e-003</b> | <b>227.2879</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr |             |             |        |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 0.0927  | 6.0000e-005 | 6.2600e-003 | 0.0000 |               | 2.0000e-005  | 2.0000e-005 |                | 2.0000e-005   | 2.0000e-005 | 0.0000   | 0.0119    | 0.0119    | 3.0000e-005 | 0.0000 | 0.0128 |
| Unmitigated | 0.0927  | 6.0000e-005 | 6.2600e-003 | 0.0000 |               | 2.0000e-005  | 2.0000e-005 |                | 2.0000e-005   | 2.0000e-005 | 0.0000   | 0.0119    | 0.0119    | 3.0000e-005 | 0.0000 | 0.0128 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.0116        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.0805        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 6.0000e-004   | 6.0000e-005        | 6.2600e-003        | 0.0000        |               | 2.0000e-005        | 2.0000e-005        |                | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0119        | 0.0119        | 3.0000e-005        | 0.0000        | 0.0128        |
| <b>Total</b>          | <b>0.0927</b> | <b>6.0000e-005</b> | <b>6.2600e-003</b> | <b>0.0000</b> |               | <b>2.0000e-005</b> | <b>2.0000e-005</b> |                | <b>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0119</b> | <b>0.0119</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0128</b> |

## Mitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.0116        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.0805        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 6.0000e-004   | 6.0000e-005        | 6.2600e-003        | 0.0000        |               | 2.0000e-005        | 2.0000e-005        |                | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0119        | 0.0119        | 3.0000e-005        | 0.0000        | 0.0128        |
| <b>Total</b>          | <b>0.0927</b> | <b>6.0000e-005</b> | <b>6.2600e-003</b> | <b>0.0000</b> |               | <b>2.0000e-005</b> | <b>2.0000e-005</b> |                | <b>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0119</b> | <b>0.0119</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0128</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 1.7888    | 5.5000e-004 | 3.2000e-004 | 1.8979 |
| Unmitigated | 1.7888    | 5.5000e-004 | 3.2000e-004 | 1.8979 |

## 7.2 Water by Land Use

### Unmitigated

|                                     | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-------------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                            | Mgal               | MT/yr         |                    |                    |               |
| High Turnover (Sit Down Restaurant) | 0.034532 / 0       | 0.1555        | 5.0000e-005        | 3.0000e-005        | 0.1650        |
| Other Asphalt Surfaces              | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Parking Lot                         | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Quality Restaurant                  | 0.210941 / 0       | 0.9498        | 2.9000e-004        | 1.7000e-004        | 1.0077        |
| Strip Mall                          | 0.151811 / 0       | 0.6835        | 2.1000e-004        | 1.2000e-004        | 0.7252        |
| <b>Total</b>                        |                    | <b>1.7888</b> | <b>5.5000e-004</b> | <b>3.2000e-004</b> | <b>1.8979</b> |

### Mitigated

|                                     | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-------------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                            | Mgal               | MT/yr         |                    |                    |               |
| High Turnover (Sit Down Restaurant) | 0.034532 / 0       | 0.1555        | 5.0000e-005        | 3.0000e-005        | 0.1650        |
| Other Asphalt Surfaces              | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Parking Lot                         | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Quality Restaurant                  | 0.210941 / 0       | 0.9498        | 2.9000e-004        | 1.7000e-004        | 1.0077        |
| Strip Mall                          | 0.151811 / 0       | 0.6835        | 2.1000e-004        | 1.2000e-004        | 0.7252        |
| <b>Total</b>                        |                    | <b>1.7888</b> | <b>5.5000e-004</b> | <b>3.2000e-004</b> | <b>1.8979</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 4.2628    | 0.2519 | 0.0000 | 10.5609 |
| Unmitigated | 4.2628    | 0.2519 | 0.0000 | 10.5609 |

### 8.2 Waste by Land Use

#### Unmitigated

|                                     | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e           |
|-------------------------------------|----------------|---------------|---------------|---------------|----------------|
| Land Use                            | tons           | MT/yr         |               |               |                |
| High Turnover (Sit Down Restaurant) | 2              | 0.4060        | 0.0240        | 0.0000        | 1.0058         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Quality Restaurant                  | 11             | 2.2329        | 0.1320        | 0.0000        | 5.5319         |
| Strip Mall                          | 8              | 1.6239        | 0.0960        | 0.0000        | 4.0232         |
| <b>Total</b>                        |                | <b>4.2628</b> | <b>0.2519</b> | <b>0.0000</b> | <b>10.5609</b> |

### **Mitigated**

|                                        | Waste<br>Disposed | Total CO2     | CH4           | N2O           | CO2e           |
|----------------------------------------|-------------------|---------------|---------------|---------------|----------------|
| Land Use                               | tons              | MT/yr         |               |               |                |
| High Turnover (Sit<br>Down Restaurant) | 2                 | 0.4060        | 0.0240        | 0.0000        | 1.0058         |
| Other Asphalt<br>Surfaces              | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                            | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Quality Restaurant                     | 11                | 2.2329        | 0.1320        | 0.0000        | 5.5319         |
| Strip Mall                             | 8                 | 1.6239        | 0.0960        | 0.0000        | 4.0232         |
| <b>Total</b>                           |                   | <b>4.2628</b> | <b>0.2519</b> | <b>0.0000</b> | <b>10.5609</b> |

## **9.0 Operational Offroad**

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## **10.0 Stationary Equipment**

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### **Fire Pumps and Emergency Generators**

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### **Boilers**

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### **User Defined Equipment**

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## **11.0 Vegetation**

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Operation\_Existing2017 - Orange County, Summer

## Operation\_Existing2017

### Orange County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>            | 8                          |                                |       | <b>Operational Year</b>          | 2017  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 702.44                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                           | Default Value | New Value |
|-----------------|---------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                         | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                            | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate              | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate              | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate              | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                 | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                 | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                 | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                 | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                 | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                 | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                 | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                 | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                 | 44.32         | 37.75     |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | IndoorWaterUseRate                    | 485,653.94    | 34,532.00 |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5095        | 4.7000e-004   | 0.0501         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.9000e-004   |               | 0.1126            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 2.4131        | 7.5692        | 23.2533        | 0.0600        | 4.5676        | 0.0759        | 4.6435        | 1.2215         | 0.0716        | 1.2931        |          | 6,067.1374        | 6,067.1374        | 0.3236        |               | 6,075.2284        |
| <b>Total</b> | <b>3.0107</b> | <b>8.3713</b> | <b>23.9768</b> | <b>0.0648</b> | <b>4.5676</b> | <b>0.1370</b> | <b>4.7046</b> | <b>1.2215</b>  | <b>0.1327</b> | <b>1.3542</b> |          | <b>7,029.2981</b> | <b>7,029.2981</b> | <b>0.3424</b> | <b>0.0176</b> | <b>7,043.1135</b> |

## Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5095        | 4.7000e-004   | 0.0501         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.9000e-004   |               | 0.1126            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 2.4131        | 7.5692        | 23.2533        | 0.0600        | 4.5676        | 0.0759        | 4.6435        | 1.2215         | 0.0716        | 1.2931        |          | 6,067.1374        | 6,067.1374        | 0.3236        |               | 6,075.2284        |
| <b>Total</b> | <b>3.0107</b> | <b>8.3713</b> | <b>23.9768</b> | <b>0.0648</b> | <b>4.5676</b> | <b>0.1370</b> | <b>4.7046</b> | <b>1.2215</b>  | <b>0.1327</b> | <b>1.3542</b> |          | <b>7,029.2981</b> | <b>7,029.2981</b> | <b>0.3424</b> | <b>0.0176</b> | <b>7,043.1135</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|          | ROG    | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
| Category | lb/day |     |    |     |               |              |            |                |               |             | lb/day   |           |           |     |     |      |

|             |        |        |         |        |        |        |        |        |        |        |  |            |            |        |  |            |
|-------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--|------------|------------|--------|--|------------|
| Mitigated   | 2.4131 | 7.5692 | 23.2533 | 0.0600 | 4.5676 | 0.0759 | 4.6435 | 1.2215 | 0.0716 | 1.2931 |  | 6,067.1374 | 6,067.1374 | 0.3236 |  | 6,075.2284 |
| Unmitigated | 2.4131 | 7.5692 | 23.2533 | 0.0600 | 4.5676 | 0.0759 | 4.6435 | 1.2215 | 0.0716 | 1.2931 |  | 6,067.1374 | 6,067.1374 | 0.3236 |  | 6,075.2284 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Other Asphalt Surfaces              | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Parking Lot                         | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Quality Restaurant                  | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Strip Mall                          | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |
| NaturalGas Unmitigated | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1156.38        | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6981.02        | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 40.0727        | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1.15638         | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6.98102         | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 0.0400727       | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                 | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG    | NOx         | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.5095 | 4.7000e-004 | 0.0501 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.9000e-004 |     | 0.1126 |
| Unmitigated | 0.5095 | 4.7000e-004 | 0.0501 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.9000e-004 |     | 0.1126 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.8300e-003   | 4.7000e-004        | 0.0501        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.9000e-004        |     | 0.1126        |
| <b>Total</b>          | <b>0.5095</b> | <b>4.7000e-004</b> | <b>0.0501</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.9000e-004</b> |     | <b>0.1126</b> |

### Mitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.8300e-003   | 4.7000e-004        | 0.0501        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.9000e-004        |     | 0.1126        |
| <b>Total</b>          | <b>0.5095</b> | <b>4.7000e-004</b> | <b>0.0501</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.9000e-004</b> |     | <b>0.1126</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Operation\_Existing2017 - Orange County, Winter

## Operation\_Existing2017

### Orange County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>            | 8                          |                                |       | <b>Operational Year</b>          | 2017  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 702.44                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                           | Default Value | New Value |
|-----------------|---------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                         | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                            | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate              | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate              | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate              | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                 | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                 | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                 | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                 | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                 | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                 | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                 | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                 | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                 | 44.32         | 37.75     |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | IndoorWaterUseRate                    | 485,653.94    | 34,532.00 |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|          | ROG    | NOx         | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|----------|--------|-------------|---------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Category | lb/day |             |         |             |               |              |             |                |               |             | lb/day   |            |            |             |        |            |
| Area     | 0.5095 | 4.7000e-004 | 0.0501  | 0.0000      |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053     | 0.1053     | 2.9000e-004 |        | 0.1126     |
| Energy   | 0.0882 | 0.8017      | 0.6734  | 4.8100e-003 |               | 0.0609       | 0.0609      |                | 0.0609        | 0.0609      |          | 962.0554   | 962.0554   | 0.0184      | 0.0176 | 967.7724   |
| Mobile   | 2.4031 | 7.7561      | 23.1810 | 0.0573      | 4.5676        | 0.0768       | 4.6444      | 1.2215         | 0.0725        | 1.2939      |          | 5,789.2536 | 5,789.2536 | 0.3277      |        | 5,797.4456 |
| Total    | 3.0007 | 8.5583      | 23.9045 | 0.0621      | 4.5676        | 0.1379       | 4.7055      | 1.2215         | 0.1336        | 1.3550      |          | 6,751.4143 | 6,751.4143 | 0.3464      | 0.0176 | 6,765.3306 |

## Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5095        | 4.7000e-004   | 0.0501         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.9000e-004   |               | 0.1126            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 2.4031        | 7.7561        | 23.1810        | 0.0573        | 4.5676        | 0.0768        | 4.6444        | 1.2215         | 0.0725        | 1.2939        |          | 5,789.2536        | 5,789.2536        | 0.3277        |               | 5,797.4456        |
| <b>Total</b> | <b>3.0007</b> | <b>8.5583</b> | <b>23.9045</b> | <b>0.0621</b> | <b>4.5676</b> | <b>0.1379</b> | <b>4.7055</b> | <b>1.2215</b>  | <b>0.1336</b> | <b>1.3550</b> |          | <b>6,751.4143</b> | <b>6,751.4143</b> | <b>0.3464</b> | <b>0.0176</b> | <b>6,765.3306</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 2.4031 | 7.7561 | 23.1810 | 0.0573 | 4.5676        | 0.0768       | 4.6444     | 1.2215         | 0.0725        | 1.2939      |          | 5,789.2536 | 5,789.2536 | 0.3277 |     | 5,797.4456 |
| Unmitigated | 2.4031 | 7.7561 | 23.1810 | 0.0573 | 4.5676        | 0.0768       | 4.6444     | 1.2215         | 0.0725        | 1.2939      |          | 5,789.2536 | 5,789.2536 | 0.3277 |     | 5,797.4456 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Other Asphalt Surfaces              | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Parking Lot                         | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Quality Restaurant                  | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |
| Strip Mall                          | 0.543066 | 0.045258 | 0.213197 | 0.125617 | 0.019254 | 0.005808 | 0.023323 | 0.014742 | 0.001554 | 0.001731 | 0.004738 | 0.000577 | 0.001134 |

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |
| NaturalGas Unmitigated | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1156.38        | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6981.02        | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 40.0727        | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1.15638         | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6.98102         | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 0.0400727       | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                 | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG    | NOx         | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.5095 | 4.7000e-004 | 0.0501 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.9000e-004 |     | 0.1126 |
| Unmitigated | 0.5095 | 4.7000e-004 | 0.0501 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.9000e-004 |     | 0.1126 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.8300e-003   | 4.7000e-004        | 0.0501        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.9000e-004        |     | 0.1126        |
| <b>Total</b>          | <b>0.5095</b> | <b>4.7000e-004</b> | <b>0.0501</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.9000e-004</b> |     | <b>0.1126</b> |

### Mitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.8300e-003   | 4.7000e-004        | 0.0501        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.9000e-004        |     | 0.1126        |
| <b>Total</b>          | <b>0.5095</b> | <b>4.7000e-004</b> | <b>0.0501</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.9000e-004</b> |     | <b>0.1126</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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**Operation\_Existing2017**  
**Orange County, Mitigation Report**

**Operational Percent Reduction Summary**

| Category              | ROG  | NOx  | CO   | SO2  | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction     |      |      |      |      |              |               |          |           |           |      |      |      |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Consumer Products     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Electricity           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Hearth                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Landscaping           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Mobile                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Natural Gas           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Water Indoor          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Water Outdoor         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

**Operational Mobile Mitigation**

Project Setting:

| Mitigation | Category | Measure                           | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-----------------------------------|-------------|---------------|---------------|---------------|
| No         | Land Use | Increase Density                  | 0.00        |               |               |               |
| No         | Land Use | Increase Diversity                | 0.05        | 0.24          |               |               |
| No         | Land Use | Improve Walkability Design        | 0.00        |               |               |               |
| No         | Land Use | Improve Destination Accessibility | 0.00        |               |               |               |
| No         | Land Use | Increase Transit Accessibility    | 0.25        |               |               |               |

|    |                           |                                                        |      |  |      |
|----|---------------------------|--------------------------------------------------------|------|--|------|
| No | Land Use                  | Integrate Below Market Rate Housing                    | 0.00 |  |      |
|    | Land Use                  | Land Use SubTotal                                      | 0.00 |  |      |
| No | Neighborhood Enhancements | Improve Pedestrian Network                             |      |  |      |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures                       |      |  |      |
| No | Neighborhood Enhancements | Implement NEV Network                                  | 0.00 |  |      |
|    | Neighborhood Enhancements | Neighborhood Enhancements Subtotal                     | 0.00 |  |      |
| No | Parking Policy Pricing    | Limit Parking Supply                                   | 0.00 |  |      |
| No | Parking Policy Pricing    | Unbundle Parking Costs                                 | 0.00 |  |      |
| No | Parking Policy Pricing    | On-street Market Pricing                               | 0.00 |  |      |
|    | Parking Policy Pricing    | Parking Policy Pricing Subtotal                        | 0.00 |  |      |
| No | Transit Improvements      | Provide BRT System                                     | 0.00 |  |      |
| No | Transit Improvements      | Expand Transit Network                                 | 0.00 |  |      |
| No | Transit Improvements      | Increase Transit Frequency                             | 0.00 |  |      |
|    | Transit Improvements      | Transit Improvements Subtotal                          | 0.00 |  |      |
|    |                           | Land Use and Site Enhancement Subtotal                 | 0.00 |  |      |
| No | Commute                   | Implement Trip Reduction Program                       |      |  |      |
| No | Commute                   | Transit Subsidy                                        |      |  |      |
| No | Commute                   | Implement Employee Parking "Cash Out"                  |      |  |      |
| No | Commute                   | Workplace Parking Charge                               |      |  |      |
| No | Commute                   | Encourage Telecommuting and Alternative Work Schedules | 0.00 |  |      |
| No | Commute                   | Market Commute Trip Reduction Option                   | 0.00 |  |      |
| No | Commute                   | Employee Vanpool/Shuttle                               | 0.00 |  | 2.00 |
| No | Commute                   | Provide Ride Sharing Program                           |      |  |      |
|    | Commute                   | Commute Subtotal                                       | 0.00 |  |      |
| No | School Trip               | Implement School Bus Program                           | 0.00 |  |      |
|    |                           | Total VMT Reduction                                    | 0.00 |  |      |

## Area Mitigation

| Measure Implemented | Mitigation Measure                           | Input Value |
|---------------------|----------------------------------------------|-------------|
| No                  | Only Natural Gas Hearth                      |             |
| No                  | No Hearth                                    |             |
| No                  | Use Low VOC Cleaning Supplies                |             |
| No                  | Use Low VOC Paint (Residential Interior)     | 50.00       |
| No                  | Use Low VOC Paint (Residential Exterior)     | 50.00       |
| No                  | Use Low VOC Paint (Non-residential Interior) | 100.00      |
| No                  | Use Low VOC Paint (Non-residential Exterior) | 100.00      |
| No                  | Use Low VOC Paint (Parking)                  | 100.00      |
| No                  | % Electric Lawnmower                         |             |
| No                  | % Electric Leafblower                        |             |
| No                  | % Electric Chainsaw                          |             |

## Energy Mitigation Measures

| Measure Implemented | Mitigation Measure               | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------|---------------|---------------|
| No                  | Exceed Title 24                  |               |               |
| No                  | Install High Efficiency Lighting |               |               |
| No                  | On-site Renewable                |               |               |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher    |                  | 30.00         |
| DishWasher     |                  | 15.00         |
| Fan            |                  | 50.00         |
| Refrigerator   |                  | 15.00         |

### Water Mitigation Measures

| Measure Implemented | Mitigation Measure                     | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------------|---------------|---------------|
| No                  | Apply Water Conservation on Strategy   |               |               |
| No                  | Use Reclaimed Water                    |               |               |
| No                  | Use Grey Water                         |               |               |
| No                  | Install low-flow bathroom faucet       | 32.00         |               |
| No                  | Install low-flow Kitchen faucet        | 18.00         |               |
| No                  | Install low-flow Toilet                | 20.00         |               |
| No                  | Install low-flow Shower                | 20.00         |               |
| No                  | Turf Reduction                         |               |               |
| No                  | Use Water Efficient Irrigation Systems | 6.10          |               |
| No                  | Water Efficient Landscape              |               |               |

### Solid Waste Mitigation

| Mitigation Measures                                                                | Input Value |
|------------------------------------------------------------------------------------|-------------|
| Institute Recycling and Composting Services<br>Percent Reduction in Waste Disposed |             |

Operation\_Existing2022 - Orange County, Annual

## Operation\_Existing2022

### Orange County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                               | Default Value | New Value |
|-----------------|-------------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                             | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                                | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate                  | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate                  | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate                  | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                     | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                     | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                     | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                     | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                     | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                     | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                     | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                     | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                     | 44.32         | 37.75     |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AerobicPercent                            | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPerce<br>nt | 2.21          | 0.00      |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 485,653.94   | 34,532.00  |
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |                    |                   |
| Area         | 0.0927        | 6.0000e-005   | 6.1500e-003   | 0.0000             |               | 2.0000e-005   | 2.0000e-005   |                | 2.0000e-005   | 2.0000e-005   | 0.0000        | 0.0119            | 0.0119            | 3.0000e-005   | 0.0000             | 0.0127            |
| Energy       | 0.0161        | 0.1463        | 0.1229        | 8.8000e-004        |               | 0.0111        | 0.0111        |                | 0.0111        | 0.0111        | 0.0000        | 385.7567          | 385.7567          | 0.0124        | 4.8500e-003        | 387.5135          |
| Mobile       | 0.2431        | 0.9234        | 2.4053        | 8.0500e-003        | 0.7122        | 6.3300e-003   | 0.7186        | 0.1907         | 5.8900e-003   | 0.1966        | 0.0000        | 743.2728          | 743.2728          | 0.0340        | 0.0000             | 744.1217          |
| Waste        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.2628        | 0.0000            | 4.2628            | 0.2519        | 0.0000             | 10.5609           |
| Water        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.1406        | 1.6482            | 1.7888            | 5.5000e-004   | 3.2000e-004        | 1.8979            |
| <b>Total</b> | <b>0.3519</b> | <b>1.0697</b> | <b>2.5344</b> | <b>8.9300e-003</b> | <b>0.7122</b> | <b>0.0175</b> | <b>0.7297</b> | <b>0.1907</b>  | <b>0.0170</b> | <b>0.2078</b> | <b>4.4034</b> | <b>1,130.6897</b> | <b>1,135.0930</b> | <b>0.2989</b> | <b>5.1700e-003</b> | <b>1,144.1067</b> |

### Mitigated Operational

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |                    |                   |
| Area         | 0.0927        | 6.0000e-005   | 6.1500e-003   | 0.0000             |               | 2.0000e-005   | 2.0000e-005   |                | 2.0000e-005   | 2.0000e-005   | 0.0000        | 0.0119            | 0.0119            | 3.0000e-005   | 0.0000             | 0.0127            |
| Energy       | 0.0161        | 0.1463        | 0.1229        | 8.8000e-004        |               | 0.0111        | 0.0111        |                | 0.0111        | 0.0111        | 0.0000        | 385.7567          | 385.7567          | 0.0124        | 4.8500e-003        | 387.5135          |
| Mobile       | 0.2431        | 0.9234        | 2.4053        | 8.0500e-003        | 0.7122        | 6.3300e-003   | 0.7186        | 0.1907         | 5.8900e-003   | 0.1966        | 0.0000        | 743.2728          | 743.2728          | 0.0340        | 0.0000             | 744.1217          |
| Waste        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 4.2628        | 0.0000            | 4.2628            | 0.2519        | 0.0000             | 10.5609           |
| Water        |               |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.1406        | 1.6482            | 1.7888            | 5.5000e-004   | 3.2000e-004        | 1.8979            |
| <b>Total</b> | <b>0.3519</b> | <b>1.0697</b> | <b>2.5344</b> | <b>8.9300e-003</b> | <b>0.7122</b> | <b>0.0175</b> | <b>0.7297</b> | <b>0.1907</b>  | <b>0.0170</b> | <b>0.2078</b> | <b>4.4034</b> | <b>1,130.6897</b> | <b>1,135.0930</b> | <b>0.2989</b> | <b>5.1700e-003</b> | <b>1,144.1067</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 0.2431  | 0.9234 | 2.4053 | 8.0500e-003 | 0.7122        | 6.3300e-003  | 0.7186     | 0.1907         | 5.8900e-003   | 0.1966      | 0.0000   | 743.2728  | 743.2728  | 0.0340 | 0.0000 | 744.1217 |
| Unmitigated | 0.2431  | 0.9234 | 2.4053 | 8.0500e-003 | 0.7122        | 6.3300e-003  | 0.7186     | 0.1907         | 5.8900e-003   | 0.1966      | 0.0000   | 743.2728  | 743.2728  | 0.0340 | 0.0000 | 744.1217 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Quality Restaurant                  | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 226.4777  | 226.4777  | 9.3500e-003 | 1.9300e-003 | 227.2879 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 226.4777  | 226.4777  | 9.3500e-003 | 1.9300e-003 | 227.2879 |
| NaturalGas Mitigated    | 0.0161  | 0.1463 | 0.1229 | 8.8000e-004 |               | 0.0111       | 0.0111     |                | 0.0111        | 0.0111      | 0.0000   | 159.2791  | 159.2791  | 3.0500e-003 | 2.9200e-003 | 160.2256 |
| NaturalGas Unmitigated  | 0.0161  | 0.1463 | 0.1229 | 8.8000e-004 |               | 0.0111       | 0.0111     |                | 0.0111        | 0.0111      | 0.0000   | 159.2791  | 159.2791  | 3.0500e-003 | 2.9200e-003 | 160.2256 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 422078         | 2.2800e-003   | 0.0207        | 0.0174        | 1.2000e-004        |               | 1.5700e-003   | 1.5700e-003   |                | 1.5700e-003   | 1.5700e-003   | 0.0000        | 22.5237         | 22.5237         | 4.3000e-004        | 4.1000e-004        | 22.6576         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Quality Restaurant                  | 2.54807e+006   | 0.0137        | 0.1249        | 0.1049        | 7.5000e-004        |               | 9.4900e-003   | 9.4900e-003   |                | 9.4900e-003   | 9.4900e-003   | 0.0000        | 135.9748        | 135.9748        | 2.6100e-003        | 2.4900e-003        | 136.7829        |
| Strip Mall                          | 14626.5        | 8.0000e-005   | 7.2000e-004   | 6.0000e-004   | 0.0000             |               | 5.0000e-005   | 5.0000e-005   |                | 5.0000e-005   | 5.0000e-005   | 0.0000        | 0.7805          | 0.7805          | 1.0000e-005        | 1.0000e-005        | 0.7852          |
| <b>Total</b>                        |                | <b>0.0161</b> | <b>0.1463</b> | <b>0.1229</b> | <b>8.7000e-004</b> |               | <b>0.0111</b> | <b>0.0111</b> |                | <b>0.0111</b> | <b>0.0111</b> | <b>0.0000</b> | <b>159.2791</b> | <b>159.2791</b> | <b>3.0500e-003</b> | <b>2.9100e-003</b> | <b>160.2256</b> |

### Mitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 422078         | 2.2800e-003   | 0.0207        | 0.0174        | 1.2000e-004        |               | 1.5700e-003   | 1.5700e-003   |                | 1.5700e-003   | 1.5700e-003   | 0.0000        | 22.5237         | 22.5237         | 4.3000e-004        | 4.1000e-004        | 22.6576         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Quality Restaurant                  | 2.54807e+006   | 0.0137        | 0.1249        | 0.1049        | 7.5000e-004        |               | 9.4900e-003   | 9.4900e-003   |                | 9.4900e-003   | 9.4900e-003   | 0.0000        | 135.9748        | 135.9748        | 2.6100e-003        | 2.4900e-003        | 136.7829        |
| Strip Mall                          | 14626.5        | 8.0000e-005   | 7.2000e-004   | 6.0000e-004   | 0.0000             |               | 5.0000e-005   | 5.0000e-005   |                | 5.0000e-005   | 5.0000e-005   | 0.0000        | 0.7805          | 0.7805          | 1.0000e-005        | 1.0000e-005        | 0.7852          |
| <b>Total</b>                        |                | <b>0.0161</b> | <b>0.1463</b> | <b>0.1229</b> | <b>8.7000e-004</b> |               | <b>0.0111</b> | <b>0.0111</b> |                | <b>0.0111</b> | <b>0.0111</b> | <b>0.0000</b> | <b>159.2791</b> | <b>159.2791</b> | <b>3.0500e-003</b> | <b>2.9100e-003</b> | <b>160.2256</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                                     | Electricity Use | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kWh/yr          | MT/yr           |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 64765.7         | 20.6357         | 8.5000e-004        | 1.8000e-004        | 20.7096         |
| Other Asphalt Surfaces              | 0               | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 161885          | 51.5800         | 2.1300e-003        | 4.4000e-004        | 51.7645         |
| Quality Restaurant                  | 390988          | 124.5773        | 5.1400e-003        | 1.0600e-003        | 125.0229        |
| Strip Mall                          | 93166.1         | 29.6847         | 1.2300e-003        | 2.5000e-004        | 29.7909         |
| <b>Total</b>                        |                 | <b>226.4777</b> | <b>9.3500e-003</b> | <b>1.9300e-003</b> | <b>227.2879</b> |

#### Mitigated

|                                     | Electricity Use | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kWh/yr          | MT/yr           |                    |                    |                 |
| High Turnover (Sit Down Restaurant) | 64765.7         | 20.6357         | 8.5000e-004        | 1.8000e-004        | 20.7096         |
| Other Asphalt Surfaces              | 0               | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 161885          | 51.5800         | 2.1300e-003        | 4.4000e-004        | 51.7645         |
| Quality Restaurant                  | 390988          | 124.5773        | 5.1400e-003        | 1.0600e-003        | 125.0229        |
| Strip Mall                          | 93166.1         | 29.6847         | 1.2300e-003        | 2.5000e-004        | 29.7909         |
| <b>Total</b>                        |                 | <b>226.4777</b> | <b>9.3500e-003</b> | <b>1.9300e-003</b> | <b>227.2879</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category    | tons/yr |             |             |        |               |              |             |                |               |             | MT/yr    |           |           |             |        |        |
| Mitigated   | 0.0927  | 6.0000e-005 | 6.1500e-003 | 0.0000 |               | 2.0000e-005  | 2.0000e-005 |                | 2.0000e-005   | 2.0000e-005 | 0.0000   | 0.0119    | 0.0119    | 3.0000e-005 | 0.0000 | 0.0127 |
| Unmitigated | 0.0927  | 6.0000e-005 | 6.1500e-003 | 0.0000 |               | 2.0000e-005  | 2.0000e-005 |                | 2.0000e-005   | 2.0000e-005 | 0.0000   | 0.0119    | 0.0119    | 3.0000e-005 | 0.0000 | 0.0127 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.0116        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.0805        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 5.7000e-004   | 6.0000e-005        | 6.1500e-003        | 0.0000        |               | 2.0000e-005        | 2.0000e-005        |                | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0119        | 0.0119        | 3.0000e-005        | 0.0000        | 0.0127        |
| <b>Total</b>          | <b>0.0927</b> | <b>6.0000e-005</b> | <b>6.1500e-003</b> | <b>0.0000</b> |               | <b>2.0000e-005</b> | <b>2.0000e-005</b> |                | <b>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0119</b> | <b>0.0119</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0127</b> |

## Mitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Architectural Coating | 0.0116        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 0.0805        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 5.7000e-004   | 6.0000e-005        | 6.1500e-003        | 0.0000        |               | 2.0000e-005        | 2.0000e-005        |                | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0119        | 0.0119        | 3.0000e-005        | 0.0000        | 0.0127        |
| <b>Total</b>          | <b>0.0927</b> | <b>6.0000e-005</b> | <b>6.1500e-003</b> | <b>0.0000</b> |               | <b>2.0000e-005</b> | <b>2.0000e-005</b> |                | <b>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0119</b> | <b>0.0119</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.0127</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 1.7888    | 5.5000e-004 | 3.2000e-004 | 1.8979 |
| Unmitigated | 1.7888    | 5.5000e-004 | 3.2000e-004 | 1.8979 |

## 7.2 Water by Land Use

### Unmitigated

|                                     | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-------------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                            | Mgal               | MT/yr         |                    |                    |               |
| High Turnover (Sit Down Restaurant) | 0.034532 / 0       | 0.1555        | 5.0000e-005        | 3.0000e-005        | 0.1650        |
| Other Asphalt Surfaces              | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Parking Lot                         | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Quality Restaurant                  | 0.210941 / 0       | 0.9498        | 2.9000e-004        | 1.7000e-004        | 1.0077        |
| Strip Mall                          | 0.151811 / 0       | 0.6835        | 2.1000e-004        | 1.2000e-004        | 0.7252        |
| <b>Total</b>                        |                    | <b>1.7888</b> | <b>5.5000e-004</b> | <b>3.2000e-004</b> | <b>1.8979</b> |

### Mitigated

|                                     | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|-------------------------------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use                            | Mgal               | MT/yr         |                    |                    |               |
| High Turnover (Sit Down Restaurant) | 0.034532 / 0       | 0.1555        | 5.0000e-005        | 3.0000e-005        | 0.1650        |
| Other Asphalt Surfaces              | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Parking Lot                         | 0 / 0              | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Quality Restaurant                  | 0.210941 / 0       | 0.9498        | 2.9000e-004        | 1.7000e-004        | 1.0077        |
| Strip Mall                          | 0.151811 / 0       | 0.6835        | 2.1000e-004        | 1.2000e-004        | 0.7252        |
| <b>Total</b>                        |                    | <b>1.7888</b> | <b>5.5000e-004</b> | <b>3.2000e-004</b> | <b>1.8979</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 4.2628    | 0.2519 | 0.0000 | 10.5609 |
| Unmitigated | 4.2628    | 0.2519 | 0.0000 | 10.5609 |

### 8.2 Waste by Land Use

#### Unmitigated

|                                     | Waste Disposed | Total CO2     | CH4           | N2O           | CO2e           |
|-------------------------------------|----------------|---------------|---------------|---------------|----------------|
| Land Use                            | tons           | MT/yr         |               |               |                |
| High Turnover (Sit Down Restaurant) | 2              | 0.4060        | 0.0240        | 0.0000        | 1.0058         |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000         |
| Quality Restaurant                  | 11             | 2.2329        | 0.1320        | 0.0000        | 5.5319         |
| Strip Mall                          | 8              | 1.6239        | 0.0960        | 0.0000        | 4.0232         |
| <b>Total</b>                        |                | <b>4.2628</b> | <b>0.2519</b> | <b>0.0000</b> | <b>10.5609</b> |

### Mitigated

|                                     | Waste Disposed | Total CO2 | CH4    | N2O    | CO2e    |
|-------------------------------------|----------------|-----------|--------|--------|---------|
| Land Use                            | tons           | MT/yr     |        |        |         |
| High Turnover (Sit Down Restaurant) | 2              | 0.4060    | 0.0240 | 0.0000 | 1.0058  |
| Other Asphalt Surfaces              | 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Parking Lot                         | 0              | 0.0000    | 0.0000 | 0.0000 | 0.0000  |
| Quality Restaurant                  | 11             | 2.2329    | 0.1320 | 0.0000 | 5.5319  |
| Strip Mall                          | 8              | 1.6239    | 0.0960 | 0.0000 | 4.0232  |
| Total                               |                | 4.2628    | 0.2519 | 0.0000 | 10.5609 |

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Operation\_Existing2022 - Orange County, Summer

## Operation\_Existing2022

### Orange County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>            | 8                          |                                |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 702.44                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                           | Default Value | New Value |
|-----------------|---------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                         | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                            | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate              | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate              | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate              | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                 | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                 | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                 | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                 | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                 | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                 | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                 | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                 | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                 | 44.32         | 37.75     |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | IndoorWaterUseRate                    | 485,653.94    | 34,532.00 |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|          | ROG    | NOx         | CO      | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O    | CO2e       |
|----------|--------|-------------|---------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|------------|------------|-------------|--------|------------|
| Category | lb/day |             |         |             |               |              |             |                |               |             | lb/day   |            |            |             |        |            |
| Area     | 0.5092 | 4.5000e-004 | 0.0492  | 0.0000      |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053     | 0.1053     | 2.8000e-004 |        | 0.1123     |
| Energy   | 0.0882 | 0.8017      | 0.6734  | 4.8100e-003 |               | 0.0609       | 0.0609      |                | 0.0609        | 0.0609      |          | 962.0554   | 962.0554   | 0.0184      | 0.0176 | 967.7724   |
| Mobile   | 1.6121 | 5.6298      | 15.2110 | 0.0524      | 4.5684        | 0.0398       | 4.6082      | 1.2216         | 0.0370        | 1.2586      |          | 5,332.8585 | 5,332.8585 | 0.2344      |        | 5,338.7191 |
| Total    | 2.2095 | 6.4320      | 15.9336 | 0.0573      | 4.5684        | 0.1009       | 4.6693      | 1.2216         | 0.0981        | 1.3197      |          | 6,295.0192 | 6,295.0192 | 0.2531      | 0.0176 | 6,306.6037 |

## Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5092        | 4.5000e-004   | 0.0492         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.8000e-004   |               | 0.1123            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 1.6121        | 5.6298        | 15.2110        | 0.0524        | 4.5684        | 0.0398        | 4.6082        | 1.2216         | 0.0370        | 1.2586        |          | 5,332.8585        | 5,332.8585        | 0.2344        |               | 5,338.7191        |
| <b>Total</b> | <b>2.2095</b> | <b>6.4320</b> | <b>15.9336</b> | <b>0.0573</b> | <b>4.5684</b> | <b>0.1009</b> | <b>4.6693</b> | <b>1.2216</b>  | <b>0.0981</b> | <b>1.3197</b> |          | <b>6,295.0192</b> | <b>6,295.0192</b> | <b>0.2531</b> | <b>0.0176</b> | <b>6,306.6037</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 1.6121 | 5.6298 | 15.2110 | 0.0524 | 4.5684        | 0.0398       | 4.6082     | 1.2216         | 0.0370        | 1.2586      |          | 5,332.8585 | 5,332.8585 | 0.2344 |     | 5,338.7191 |
| Unmitigated | 1.6121 | 5.6298 | 15.2110 | 0.0524 | 4.5684        | 0.0398       | 4.6082     | 1.2216         | 0.0370        | 1.2586      |          | 5,332.8585 | 5,332.8585 | 0.2344 |     | 5,338.7191 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50      | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00     | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60     | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Quality Restaurant                  | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |
| NaturalGas Unmitigated | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1156.38        | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6981.02        | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 40.0727        | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1.15638         | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6.98102         | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 0.0400727       | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                 | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG    | NOx         | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.5092 | 4.5000e-004 | 0.0492 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.8000e-004 |     | 0.1123 |
| Unmitigated | 0.5092 | 4.5000e-004 | 0.0492 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.8000e-004 |     | 0.1123 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.5800e-003   | 4.5000e-004        | 0.0492        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.8000e-004        |     | 0.1123        |
| <b>Total</b>          | <b>0.5092</b> | <b>4.5000e-004</b> | <b>0.0492</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.8000e-004</b> |     | <b>0.1123</b> |

### Mitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.5800e-003   | 4.5000e-004        | 0.0492        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.8000e-004        |     | 0.1123        |
| <b>Total</b>          | <b>0.5092</b> | <b>4.5000e-004</b> | <b>0.0492</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.8000e-004</b> |     | <b>0.1123</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Operation\_Existing2022 - Orange County, Winter

## Operation\_Existing2022

### Orange County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric   | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|----------|-------------|--------------------|------------|
| Strip Mall                          | 6.93   | 1000sqft | 0.16        | 6,932.00           | 0          |
| Quality Restaurant                  | 9.64   | 1000sqft | 0.22        | 9,635.00           | 0          |
| High Turnover (Sit Down Restaurant) | 1.60   | 1000sqft | 0.04        | 1,596.00           | 0          |
| Parking Lot                         | 462.00 | Space    | 4.24        | 184,800.00         | 0          |
| Other Asphalt Surfaces              | 1.03   | Acre     | 1.03        | 44,910.36          | 0          |

### 1.2 Other Project Characteristics

|                                |                            |                                |       |                                  |       |
|--------------------------------|----------------------------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban                      | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>            | 8                          |                                |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 702.44                     | <b>CH4 Intensity (lb/MWhr)</b> | 0.029 | <b>N2O Intensity (lb/MWhr)</b>   | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided and existing conditions. See assumptions file.

Construction Phase -

Vehicle Trips - Weekday rates provided by LSA traffic impact analysis. Weekend rates from 10ed ITE Trip Generation Manual.

Energy Use -

Water And Wastewater - Based on generation rates provided by Fuscoe. Assumes water demand 100% indoor water.

Solid Waste - Based on 0.006 lbs/day/SF as utilized in Chapter 4.16 of the DEIR.

| Table Name      | Column Name                           | Default Value | New Value |
|-----------------|---------------------------------------|---------------|-----------|
| tblEnergyUse    | LightingElect                         | 0.88          | 0.88      |
| tblLandUse      | LotAcreage                            | 4.16          | 4.24      |
| tblSolidWaste   | SolidWasteGenerationRate              | 19.04         | 2.00      |
| tblSolidWaste   | SolidWasteGenerationRate              | 8.79          | 11.00     |
| tblSolidWaste   | SolidWasteGenerationRate              | 7.28          | 8.00      |
| tblVehicleTrips | ST_TR                                 | 158.37        | 122.40    |
| tblVehicleTrips | ST_TR                                 | 94.36         | 90.04     |
| tblVehicleTrips | ST_TR                                 | 42.04         | 46.12     |
| tblVehicleTrips | SU_TR                                 | 131.84        | 142.64    |
| tblVehicleTrips | SU_TR                                 | 72.16         | 71.97     |
| tblVehicleTrips | SU_TR                                 | 20.43         | 21.10     |
| tblVehicleTrips | WD_TR                                 | 127.15        | 112.18    |
| tblVehicleTrips | WD_TR                                 | 89.95         | 83.84     |
| tblVehicleTrips | WD_TR                                 | 44.32         | 37.75     |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AerobicPercent                        | 87.46         | 100.00    |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | AnaerobicandFacultativeLagoonsPercent | 2.21          | 0.00      |
| tblWater        | IndoorWaterUseRate                    | 485,653.94    | 34,532.00 |

|          |                     |              |            |
|----------|---------------------|--------------|------------|
| tblWater | IndoorWaterUseRate  | 2,923,029.65 | 210,941.00 |
| tblWater | IndoorWaterUseRate  | 513,322.57   | 151,811.00 |
| tblWater | OutdoorWaterUseRate | 30,999.19    | 0.00       |
| tblWater | OutdoorWaterUseRate | 186,576.36   | 0.00       |
| tblWater | OutdoorWaterUseRate | 314,617.06   | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |
| tblWater | SepticTankPercent   | 10.33        | 0.00       |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5092        | 4.5000e-004   | 0.0492         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.8000e-004   |               | 0.1123            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 1.5857        | 5.7092        | 15.0516        | 0.0501        | 4.5684        | 0.0401        | 4.6085        | 1.2216         | 0.0373        | 1.2589        |          | 5,090.6957        | 5,090.6957        | 0.2377        |               | 5,096.6383        |
| <b>Total</b> | <b>2.1831</b> | <b>6.5114</b> | <b>15.7743</b> | <b>0.0549</b> | <b>4.5684</b> | <b>0.1012</b> | <b>4.6696</b> | <b>1.2216</b>  | <b>0.0984</b> | <b>1.3200</b> |          | <b>6,052.8564</b> | <b>6,052.8564</b> | <b>0.2564</b> | <b>0.0176</b> | <b>6,064.5230</b> |

## Mitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | lb/day        |               |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Area         | 0.5092        | 4.5000e-004   | 0.0492         | 0.0000        |               | 1.8000e-004   | 1.8000e-004   |                | 1.8000e-004   | 1.8000e-004   |          | 0.1053            | 0.1053            | 2.8000e-004   |               | 0.1123            |
| Energy       | 0.0882        | 0.8017        | 0.6734         | 4.8100e-003   |               | 0.0609        | 0.0609        |                | 0.0609        | 0.0609        |          | 962.0554          | 962.0554          | 0.0184        | 0.0176        | 967.7724          |
| Mobile       | 1.5857        | 5.7092        | 15.0516        | 0.0501        | 4.5684        | 0.0401        | 4.6085        | 1.2216         | 0.0373        | 1.2589        |          | 5,090.6957        | 5,090.6957        | 0.2377        |               | 5,096.6383        |
| <b>Total</b> | <b>2.1831</b> | <b>6.5114</b> | <b>15.7743</b> | <b>0.0549</b> | <b>4.5684</b> | <b>0.1012</b> | <b>4.6696</b> | <b>1.2216</b>  | <b>0.0984</b> | <b>1.3200</b> |          | <b>6,052.8564</b> | <b>6,052.8564</b> | <b>0.2564</b> | <b>0.0176</b> | <b>6,064.5230</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 1.5857 | 5.7092 | 15.0516 | 0.0501 | 4.5684        | 0.0401       | 4.6085     | 1.2216         | 0.0373        | 1.2589      |          | 5,090.6957 | 5,090.6957 | 0.2377 |     | 5,096.6383 |
| Unmitigated | 1.5857 | 5.7092 | 15.0516 | 0.0501 | 4.5684        | 0.0401       | 4.6085     | 1.2216         | 0.0373        | 1.2589      |          | 5,090.6957 | 5,090.6957 | 0.2377 |     | 5,096.6383 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| High Turnover (Sit Down Restaurant) | 179.04                  | 195.35   | 227.65   | 256,641     | 256,641    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Quality Restaurant                  | 807.80                  | 867.54   | 693.43   | 1,138,897   | 1,138,897  |
| Strip Mall                          | 261.68                  | 319.70   | 146.27   | 482,276     | 482,276    |
| Total                               | 1,248.52                | 1,382.59 | 1,067.35 | 1,877,813   | 1,877,813  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Quality Restaurant                  | 16.60      | 8.40       | 6.90        | 12.00      | 69.00      | 19.00       | 38             | 18       | 44      |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Quality Restaurant                  | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: Y

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |        |          |
| NaturalGas Mitigated   | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |
| NaturalGas Unmitigated | 0.0882 | 0.8017 | 0.6734 | 4.8100e-003 |               | 0.0609       | 0.0609     |                | 0.0609        | 0.0609      |          | 962.0554  | 962.0554  | 0.0184 | 0.0176 | 967.7724 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1156.38        | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6981.02        | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 40.0727        | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |               |                 |
| High Turnover (Sit Down Restaurant) | 1.15638         | 0.0125        | 0.1134        | 0.0952        | 6.8000e-004        |               | 8.6200e-003   | 8.6200e-003   |                | 8.6200e-003   | 8.6200e-003   |          | 136.0445        | 136.0445        | 2.6100e-003   | 2.4900e-003   | 136.8530        |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Quality Restaurant                  | 6.98102         | 0.0753        | 0.6844        | 0.5749        | 4.1100e-003        |               | 0.0520        | 0.0520        |                | 0.0520        | 0.0520        |          | 821.2964        | 821.2964        | 0.0157        | 0.0151        | 826.1770        |
| Strip Mall                          | 0.0400727       | 4.3000e-004   | 3.9300e-003   | 3.3000e-003   | 2.0000e-005        |               | 3.0000e-004   | 3.0000e-004   |                | 3.0000e-004   | 3.0000e-004   |          | 4.7144          | 4.7144          | 9.0000e-005   | 9.0000e-005   | 4.7425          |
| <b>Total</b>                        |                 | <b>0.0882</b> | <b>0.8017</b> | <b>0.6734</b> | <b>4.8100e-003</b> |               | <b>0.0609</b> | <b>0.0609</b> |                | <b>0.0609</b> | <b>0.0609</b> |          | <b>962.0554</b> | <b>962.0554</b> | <b>0.0184</b> | <b>0.0176</b> | <b>967.7724</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG    | NOx         | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O | CO2e   |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|--------|
| Category    | lb/day |             |        |        |               |              |             |                |               |             | lb/day   |           |           |             |     |        |
| Mitigated   | 0.5092 | 4.5000e-004 | 0.0492 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.8000e-004 |     | 0.1123 |
| Unmitigated | 0.5092 | 4.5000e-004 | 0.0492 | 0.0000 |               | 1.8000e-004  | 1.8000e-004 |                | 1.8000e-004   | 1.8000e-004 |          | 0.1053    | 0.1053    | 2.8000e-004 |     | 0.1123 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.5800e-003   | 4.5000e-004        | 0.0492        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.8000e-004        |     | 0.1123        |
| <b>Total</b>          | <b>0.5092</b> | <b>4.5000e-004</b> | <b>0.0492</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.8000e-004</b> |     | <b>0.1123</b> |

### Mitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 0.0636        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 0.4410        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 4.5800e-003   | 4.5000e-004        | 0.0492        | 0.0000        |               | 1.8000e-004        | 1.8000e-004        |                | 1.8000e-004        | 1.8000e-004        |          | 0.1053        | 0.1053        | 2.8000e-004        |     | 0.1123        |
| <b>Total</b>          | <b>0.5092</b> | <b>4.5000e-004</b> | <b>0.0492</b> | <b>0.0000</b> |               | <b>1.8000e-004</b> | <b>1.8000e-004</b> |                | <b>1.8000e-004</b> | <b>1.8000e-004</b> |          | <b>0.1053</b> | <b>0.1053</b> | <b>2.8000e-004</b> |     | <b>0.1123</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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**Operation\_Existing2022**  
**Orange County, Mitigation Report**

**Operational Percent Reduction Summary**

| Category              | ROG  | NOx  | CO   | SO2  | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction     |      |      |      |      |              |               |          |           |           |      |      |      |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Consumer Products     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Electricity           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Hearth                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Landscaping           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Mobile                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Natural Gas           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Water Indoor          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Water Outdoor         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

**Operational Mobile Mitigation**

Project Setting:

| Mitigation | Category | Measure                           | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-----------------------------------|-------------|---------------|---------------|---------------|
| No         | Land Use | Increase Density                  | 0.00        |               |               |               |
| No         | Land Use | Increase Diversity                | 0.05        | 0.24          |               |               |
| No         | Land Use | Improve Walkability Design        | 0.00        |               |               |               |
| No         | Land Use | Improve Destination Accessibility | 0.00        |               |               |               |
| No         | Land Use | Increase Transit Accessibility    | 0.25        |               |               |               |

|    |                           |                                                        |      |  |      |
|----|---------------------------|--------------------------------------------------------|------|--|------|
| No | Land Use                  | Integrate Below Market Rate Housing                    | 0.00 |  |      |
|    | Land Use                  | Land Use SubTotal                                      | 0.00 |  |      |
| No | Neighborhood Enhancements | Improve Pedestrian Network                             |      |  |      |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures                       |      |  |      |
| No | Neighborhood Enhancements | Implement NEV Network                                  | 0.00 |  |      |
|    | Neighborhood Enhancements | Neighborhood Enhancements Subtotal                     | 0.00 |  |      |
| No | Parking Policy Pricing    | Limit Parking Supply                                   | 0.00 |  |      |
| No | Parking Policy Pricing    | Unbundle Parking Costs                                 | 0.00 |  |      |
| No | Parking Policy Pricing    | On-street Market Pricing                               | 0.00 |  |      |
|    | Parking Policy Pricing    | Parking Policy Pricing Subtotal                        | 0.00 |  |      |
| No | Transit Improvements      | Provide BRT System                                     | 0.00 |  |      |
| No | Transit Improvements      | Expand Transit Network                                 | 0.00 |  |      |
| No | Transit Improvements      | Increase Transit Frequency                             | 0.00 |  |      |
|    | Transit Improvements      | Transit Improvements Subtotal                          | 0.00 |  |      |
|    |                           | Land Use and Site Enhancement Subtotal                 | 0.00 |  |      |
| No | Commute                   | Implement Trip Reduction Program                       |      |  |      |
| No | Commute                   | Transit Subsidy                                        |      |  |      |
| No | Commute                   | Implement Employee Parking "Cash Out"                  |      |  |      |
| No | Commute                   | Workplace Parking Charge                               |      |  |      |
| No | Commute                   | Encourage Telecommuting and Alternative Work Schedules | 0.00 |  |      |
| No | Commute                   | Market Commute Trip Reduction Option                   | 0.00 |  |      |
| No | Commute                   | Employee Vanpool/Shuttle                               | 0.00 |  | 2.00 |
| No | Commute                   | Provide Ride Sharing Program                           |      |  |      |
|    | Commute                   | Commute Subtotal                                       | 0.00 |  |      |
| No | School Trip               | Implement School Bus Program                           | 0.00 |  |      |
|    |                           | Total VMT Reduction                                    | 0.00 |  |      |

## Area Mitigation

| Measure Implemented | Mitigation Measure                           | Input Value |
|---------------------|----------------------------------------------|-------------|
| No                  | Only Natural Gas Hearth                      |             |
| No                  | No Hearth                                    |             |
| No                  | Use Low VOC Cleaning Supplies                |             |
| No                  | Use Low VOC Paint (Residential Interior)     | 50.00       |
| No                  | Use Low VOC Paint (Residential Exterior)     | 50.00       |
| No                  | Use Low VOC Paint (Non-residential Interior) | 100.00      |
| No                  | Use Low VOC Paint (Non-residential Exterior) | 100.00      |
| No                  | Use Low VOC Paint (Parking)                  | 100.00      |
| No                  | % Electric Lawnmower                         |             |
| No                  | % Electric Leafblower                        |             |
| No                  | % Electric Chainsaw                          |             |

## Energy Mitigation Measures

| Measure Implemented | Mitigation Measure               | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------|---------------|---------------|
| No                  | Exceed Title 24                  |               |               |
| No                  | Install High Efficiency Lighting |               |               |
| No                  | On-site Renewable                |               |               |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher    |                  | 30.00         |
| DishWasher     |                  | 15.00         |
| Fan            |                  | 50.00         |
| Refrigerator   |                  | 15.00         |

### Water Mitigation Measures

| Measure Implemented | Mitigation Measure                     | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------------|---------------|---------------|
| No                  | Apply Water Conservation on Strategy   |               |               |
| No                  | Use Reclaimed Water                    |               |               |
| No                  | Use Grey Water                         |               |               |
| No                  | Install low-flow bathroom faucet       | 32.00         |               |
| No                  | Install low-flow Kitchen faucet        | 18.00         |               |
| No                  | Install low-flow Toilet                | 20.00         |               |
| No                  | Install low-flow Shower                | 20.00         |               |
| No                  | Turf Reduction                         |               |               |
| No                  | Use Water Efficient Irrigation Systems | 6.10          |               |
| No                  | Water Efficient Landscape              |               |               |

### Solid Waste Mitigation

| Mitigation Measures                                                                | Input Value |
|------------------------------------------------------------------------------------|-------------|
| Institute Recycling and Composting Services<br>Percent Reduction in Waste Disposed |             |

## Operation Proposed - Orange County, Annual

## Operation Proposed Orange County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                     |                            |                                     |       |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                      | <b>Wind Speed (m/s)</b>             | 2.2   | <b>Precipitation Freq (Days)</b>    | 30    |
| <b>Climate Zone</b>                 | 8                          |                                     |       | <b>Operational Year</b>             | 2022  |
| <b>Utility Company</b>              | Southern California Edison |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan and info provided.

Construction Phase -

Vehicle Trips - Based on information provide by LSA and 10th Ed ITE Trip Generation Manual. See assumptions file.

Fleet Mix - Based on 97/2/1 light duty auto, medium duty truck, and heavy duty truck ratio.

Woodstoves - Assumes no woodstoves and 100% gas fireplaces.

Area Coating - Based on information provided.

Water Mitigation -

| Table Name     | Column Name                  | Default Value | New Value   |
|----------------|------------------------------|---------------|-------------|
| tblAreaCoating | Area_Nonresidential_Exterior | 3750          | 2813        |
| tblAreaCoating | Area_Nonresidential_Interior | 11250         | 9000        |
| tblAreaCoating | Area_Residential_Exterior    | 297423        | 223067      |
| tblAreaCoating | Area_Residential_Interior    | 892270        | 713816      |
| tblFireplaces  | NumberGas                    | 297.50        | 350.00      |
| tblFireplaces  | NumberNoFireplace            | 35.00         | 0.00        |
| tblFireplaces  | NumberWood                   | 17.50         | 0.00        |
| tblFleetMix    | HHD                          | 0.02          | 2.4780e-003 |
| tblFleetMix    | LDA                          | 0.56          | 0.66        |
| tblFleetMix    | LDT1                         | 0.04          | 0.05        |
| tblFleetMix    | LDT2                         | 0.21          | 0.25        |
| tblFleetMix    | LHD1                         | 0.02          | 2.2490e-003 |
| tblFleetMix    | LHD2                         | 5.7950e-003   | 8.3900e-004 |
| tblFleetMix    | MCY                          | 4.9260e-003   | 5.8340e-003 |
| tblFleetMix    | MDV                          | 0.11          | 0.02        |
| tblFleetMix    | MH                           | 9.3400e-004   | 1.3500e-004 |
| tblFleetMix    | MHD                          | 0.03          | 3.7370e-003 |

|                 |                    |             |             |
|-----------------|--------------------|-------------|-------------|
| tblFleetMix     | OBUS               | 1.7470e-003 | 2.5300e-004 |
| tblFleetMix     | SBUS               | 5.9400e-004 | 8.6000e-005 |
| tblFleetMix     | UBUS               | 1.5420e-003 | 2.2300e-004 |
| tblLandUse      | LandUseSquareFeet  | 278,340.00  | 278,337.00  |
| tblLandUse      | LandUseSquareFeet  | 14,374.80   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 21,780.00   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 350,000.00  | 440,627.00  |
| tblLandUse      | LotAcreage         | 6.39        | 1.06        |
| tblLandUse      | LotAcreage         | 0.05        | 0.00        |
| tblLandUse      | LotAcreage         | 9.21        | 3.74        |
| tblLandUse      | LotAcreage         | 0.13        | 0.00        |
| tblVehicleTrips | ST_TR              | 6.39        | 4.91        |
| tblVehicleTrips | ST_TR              | 22.75       | 0.00        |
| tblVehicleTrips | ST_TR              | 158.37      | 122.40      |
| tblVehicleTrips | ST_TR              | 42.04       | 36.00       |
| tblVehicleTrips | SU_TR              | 5.86        | 4.09        |
| tblVehicleTrips | SU_TR              | 16.74       | 0.00        |
| tblVehicleTrips | SU_TR              | 131.84      | 142.64      |
| tblVehicleTrips | SU_TR              | 20.43       | 36.00       |
| tblVehicleTrips | WD_TR              | 6.65        | 5.44        |
| tblVehicleTrips | WD_TR              | 1.89        | 0.00        |
| tblVehicleTrips | WD_TR              | 127.15      | 112.80      |
| tblVehicleTrips | WD_TR              | 44.32       | 36.00       |
| tblWoodstoves   | NumberCatalytic    | 17.50       | 0.00        |
| tblWoodstoves   | NumberNoncatalytic | 17.50       | 0.00        |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 1.8706        | 0.1143        | 3.6479         | 6.5000e-004   |               | 0.0259        | 0.0259        |                | 0.0259        | 0.0259        | 0.0000         | 89.9511           | 89.9511           | 7.3200e-003   | 1.5400e-003   | 90.5932           |
| Energy       | 0.0244        | 0.2103        | 0.1002         | 1.3300e-003   |               | 0.0169        | 0.0169        |                | 0.0169        | 0.0169        | 0.0000         | 1,248.2355        | 1,248.2355        | 0.0462        | 0.0130        | 1,253.2727        |
| Mobile       | 0.5056        | 1.0152        | 6.7865         | 0.0236        | 2.5773        | 0.0175        | 2.5948        | 0.6854         | 0.0161        | 0.7016        | 0.0000         | 2,143.6031        | 2,143.6031        | 0.0692        | 0.0000        | 2,145.3322        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 38.6941        | 0.0000            | 38.6941           | 2.2868        | 0.0000        | 95.8631           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 7.5565         | 152.8376          | 160.3941          | 0.7824        | 0.0196        | 185.8050          |
| <b>Total</b> | <b>2.4007</b> | <b>1.3397</b> | <b>10.5346</b> | <b>0.0256</b> | <b>2.5773</b> | <b>0.0602</b> | <b>2.6375</b> | <b>0.6854</b>  | <b>0.0589</b> | <b>0.7443</b> | <b>46.2506</b> | <b>3,634.6273</b> | <b>3,680.8779</b> | <b>3.1919</b> | <b>0.0342</b> | <b>3,770.8663</b> |

#### Mitigated Operational

|          | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|----------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |         |
| Area     | 1.8706  | 0.1143 | 3.6479 | 6.5000e-004 |               | 0.0259       | 0.0259     |                | 0.0259        | 0.0259      | 0.0000   | 89.9511   | 89.9511   | 7.3200e-003 | 1.5400e-003 | 90.5932 |

|              |               |               |                |               |               |               |               |               |               |               |                |                   |                   |               |               |                   |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Energy       | 0.0244        | 0.2103        | 0.1002         | 1.3300e-003   |               | 0.0169        | 0.0169        |               | 0.0169        | 0.0169        | 0.0000         | 1,248.2355        | 1,248.2355        | 0.0462        | 0.0130        | 1,253.2727        |
| Mobile       | 0.5056        | 1.0152        | 6.7865         | 0.0236        | 2.5773        | 0.0175        | 2.5948        | 0.6854        | 0.0161        | 0.7016        | 0.0000         | 2,143.6031        | 2,143.6031        | 0.0692        | 0.0000        | 2,145.3322        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 38.6941        | 0.0000            | 38.6941           | 2.2868        | 0.0000        | 95.8631           |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        | 6.0452         | 129.7789          | 135.8241          | 0.6263        | 0.0158        | 156.1797          |
| <b>Total</b> | <b>2.4007</b> | <b>1.3397</b> | <b>10.5346</b> | <b>0.0256</b> | <b>2.5773</b> | <b>0.0602</b> | <b>2.6375</b> | <b>0.6854</b> | <b>0.0589</b> | <b>0.7443</b> | <b>44.7393</b> | <b>3,611.5686</b> | <b>3,656.3080</b> | <b>3.0357</b> | <b>0.0303</b> | <b>3,741.2410</b> |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O   | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00          | 0.00         | 0.00       | 0.00           | 0.00          | 0.00        | 3.27     | 0.63     | 0.67      | 4.89 | 11.29 | 0.79 |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.5056  | 1.0152 | 6.7865 | 0.0236 | 2.5773        | 0.0175       | 2.5948     | 0.6854         | 0.0161        | 0.7016      | 0.0000   | 2,143.6031 | 2,143.6031 | 0.0692 | 0.0000 | 2,145.3322 |
| Unmitigated | 0.5056  | 1.0152 | 6.7865 | 0.0236 | 2.5773        | 0.0175       | 2.5948     | 0.6854         | 0.0161        | 0.7016      | 0.0000   | 2,143.6031 | 2,143.6031 | 0.0692 | 0.0000 | 2,145.3322 |

## 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Mid Rise                 | 1,904.00                | 1,718.50 | 1431.50  | 6,185,045   | 6,185,045  |
| City Park                           | 0.00                    | 0.00     | 0.00     |             |            |
| Enclosed Parking with Elevator      | 0.00                    | 0.00     | 0.00     |             |            |
| High Turnover (Sit Down Restaurant) | 225.60                  | 244.80   | 285.28   | 322,812     | 322,812    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Strip Mall                          | 198.00                  | 198.00   | 198.00   | 376,714     | 376,714    |
| Total                               | 2,327.60                | 2,161.30 | 1,914.78 | 6,884,571   | 6,884,571  |

## 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise                 | 14.70      | 5.90       | 8.70        | 40.20     | 19.20      | 40.60       | 86             | 11       | 3       |
| City Park                           | 16.60      | 8.40       | 6.90        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50      | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60     | 64.40      | 19.00       | 45             | 40       | 15      |

## 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise                 | 0.664830 | 0.051261 | 0.248075 | 0.020000 | 0.002249 | 0.000839 | 0.003737 | 0.002478 | 0.000253 | 0.000223 | 0.005834 | 0.000086 | 0.000135 |
| City Park                           | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Enclosed Parking with Elevator      | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4         | N2O         | CO2e       |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-------------|------------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |             |            |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1,006.5375 | 1,006.5375 | 0.0416      | 8.6000e-003 | 1,010.1384 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 1,006.5375 | 1,006.5375 | 0.0416      | 8.6000e-003 | 1,010.1384 |
| NaturalGas Mitigated    | 0.0244  | 0.2103 | 0.1002 | 1.3300e-003 |               | 0.0169       | 0.0169     |                | 0.0169        | 0.0169      | 0.0000   | 241.6981   | 241.6981   | 4.6300e-003 | 4.4300e-003 | 243.1344   |
| NaturalGas Unmitigated  | 0.0244  | 0.2103 | 0.1002 | 1.3300e-003 |               | 0.0169       | 0.0169     |                | 0.0169        | 0.0169      | 0.0000   | 241.6981   | 241.6981   | 4.6300e-003 | 4.4300e-003 | 243.1344   |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                     | NaturalGas Use | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|---------------------|----------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Land Use            | kBTU/yr        | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Apartments Mid Rise | 3.99961e+006   | 0.0216  | 0.1843 | 0.0784 | 1.1800e-003 |               | 0.0149       | 0.0149     |                | 0.0149        | 0.0149      | 0.0000   | 213.4345  | 213.4345  | 4.0900e-003 | 3.9100e-003 | 214.7028 |

|                                     |        |               |               |               |                    |  |               |               |  |               |               |               |                 |                 |                    |                    |                 |
|-------------------------------------|--------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| City Park                           | 0      | 0.0000        | 0.0000        | 0.0000        | 0.0000             |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Enclosed Parking with Elevator      | 0      | 0.0000        | 0.0000        | 0.0000        | 0.0000             |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| High Turnover (Sit Down Restaurant) | 518640 | 2.8000e-003   | 0.0254        | 0.0214        | 1.5000e-004        |  | 1.9300e-003   | 1.9300e-003   |  | 1.9300e-003   | 1.9300e-003   | 0.0000        | 27.6766         | 27.6766         | 5.3000e-004        | 5.1000e-004        | 27.8411         |
| Other Asphalt Surfaces              | 0      | 0.0000        | 0.0000        | 0.0000        | 0.0000             |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0      | 0.0000        | 0.0000        | 0.0000        | 0.0000             |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Strip Mall                          | 11000  | 6.0000e-005   | 5.4000e-004   | 4.5000e-004   | 0.0000             |  | 4.0000e-005   | 4.0000e-005   |  | 4.0000e-005   | 4.0000e-005   | 0.0000        | 0.5870          | 0.5870          | 1.0000e-005        | 1.0000e-005        | 0.5905          |
| <b>Total</b>                        |        | <b>0.0244</b> | <b>0.2103</b> | <b>0.1002</b> | <b>1.3300e-003</b> |  | <b>0.0169</b> | <b>0.0169</b> |  | <b>0.0169</b> | <b>0.0169</b> | <b>0.0000</b> | <b>241.6981</b> | <b>241.6981</b> | <b>4.6300e-003</b> | <b>4.4300e-003</b> | <b>243.1344</b> |

### Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use                            | kBTU/yr         | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Apartments Mid Rise                 | 3.99961e+006    | 0.0216        | 0.1843        | 0.0784        | 1.1800e-003        |               | 0.0149        | 0.0149        |                | 0.0149        | 0.0149        | 0.0000        | 213.4345        | 213.4345        | 4.0900e-003        | 3.9100e-003        | 214.7028        |
| City Park                           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Enclosed Parking with Elevator      | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| High Turnover (Sit Down Restaurant) | 518640          | 2.8000e-003   | 0.0254        | 0.0214        | 1.5000e-004        |               | 1.9300e-003   | 1.9300e-003   |                | 1.9300e-003   | 1.9300e-003   | 0.0000        | 27.6766         | 27.6766         | 5.3000e-004        | 5.1000e-004        | 27.8411         |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Strip Mall                          | 11000           | 6.0000e-005   | 5.4000e-004   | 4.5000e-004   | 0.0000             |               | 4.0000e-005   | 4.0000e-005   |                | 4.0000e-005   | 4.0000e-005   | 0.0000        | 0.5870          | 0.5870          | 1.0000e-005        | 1.0000e-005        | 0.5905          |
| <b>Total</b>                        |                 | <b>0.0244</b> | <b>0.2103</b> | <b>0.1002</b> | <b>1.3300e-003</b> |               | <b>0.0169</b> | <b>0.0169</b> |                | <b>0.0169</b> | <b>0.0169</b> | <b>0.0000</b> | <b>241.6981</b> | <b>241.6981</b> | <b>4.6300e-003</b> | <b>4.4300e-003</b> | <b>243.1344</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|                                     | Electricity Use | Total CO2         | CH4           | N2O                | CO2e              |
|-------------------------------------|-----------------|-------------------|---------------|--------------------|-------------------|
| Land Use                            | kWh/yr          | MT/yr             |               |                    |                   |
| Apartments Mid Rise                 | 1.39136e+006    | 443.3155          | 0.0183        | 3.7900e-003        | 444.9015          |
| City Park                           | 0               | 0.0000            | 0.0000        | 0.0000             | 0.0000            |
| Enclosed Parking with Elevator      | 1.63105e+006    | 519.6890          | 0.0215        | 4.4400e-003        | 521.5482          |
| High Turnover (Sit Down Restaurant) | 72960           | 23.2466           | 9.6000e-004   | 2.0000e-004        | 23.3298           |
| Other Asphalt Surfaces              | 0               | 0.0000            | 0.0000        | 0.0000             | 0.0000            |
| Parking Lot                         | 749             | 0.2387            | 1.0000e-005   | 0.0000             | 0.2395            |
| Strip Mall                          | 62920           | 20.0477           | 8.3000e-004   | 1.7000e-004        | 20.1194           |
| <b>Total</b>                        |                 | <b>1,006.5375</b> | <b>0.0416</b> | <b>8.6000e-003</b> | <b>1,010.1384</b> |

#### Mitigated

|                     | Electricity Use | Total CO2 | CH4    | N2O         | CO2e     |
|---------------------|-----------------|-----------|--------|-------------|----------|
| Land Use            | kWh/yr          | MT/yr     |        |             |          |
| Apartments Mid Rise | 1.39136e+006    | 443.3155  | 0.0183 | 3.7900e-003 | 444.9015 |

|                                     |              |                   |               |                    |                   |
|-------------------------------------|--------------|-------------------|---------------|--------------------|-------------------|
| City Park                           | 0            | 0.0000            | 0.0000        | 0.0000             | 0.0000            |
| Enclosed Parking with Elevator      | 1.63105e+006 | 519.6890          | 0.0215        | 4.4400e-003        | 521.5482          |
| High Turnover (Sit Down Restaurant) | 72960        | 23.2466           | 9.6000e-004   | 2.0000e-004        | 23.3298           |
| Other Asphalt Surfaces              | 0            | 0.0000            | 0.0000        | 0.0000             | 0.0000            |
| Parking Lot                         | 749          | 0.2387            | 1.0000e-005   | 0.0000             | 0.2395            |
| Strip Mall                          | 62920        | 20.0477           | 8.3000e-004   | 1.7000e-004        | 20.1194           |
| <b>Total</b>                        |              | <b>1,006.5375</b> | <b>0.0416</b> | <b>8.6000e-003</b> | <b>1,010.1384</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |         |
| Mitigated   | 1.8706  | 0.1143 | 3.6479 | 6.5000e-004 |               | 0.0259       | 0.0259     |                | 0.0259        | 0.0259      | 0.0000   | 89.9511   | 89.9511   | 7.3200e-003 | 1.5400e-003 | 90.5932 |
| Unmitigated | 1.8706  | 0.1143 | 3.6479 | 6.5000e-004 |               | 0.0259       | 0.0259     |                | 0.0259        | 0.0259      | 0.0000   | 89.9511   | 89.9511   | 7.3200e-003 | 1.5400e-003 | 90.5932 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |                    |                |
| Architectural Coating | 0.1152        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Consumer Products     | 1.6374        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Hearth                | 8.4900e-003   | 0.0726        | 0.0309        | 4.6000e-004        |               | 5.8700e-003   | 5.8700e-003   |                | 5.8700e-003   | 5.8700e-003   | 0.0000        | 84.0480        | 84.0480        | 1.6100e-003        | 1.5400e-003        | 84.5475        |
| Landscaping           | 0.1095        | 0.0417        | 3.6170        | 1.9000e-004        |               | 0.0200        | 0.0200        |                | 0.0200        | 0.0200        | 0.0000        | 5.9031         | 5.9031         | 5.7100e-003        | 0.0000             | 6.0458         |
| <b>Total</b>          | <b>1.8706</b> | <b>0.1143</b> | <b>3.6479</b> | <b>6.5000e-004</b> |               | <b>0.0259</b> | <b>0.0259</b> |                | <b>0.0259</b> | <b>0.0259</b> | <b>0.0000</b> | <b>89.9511</b> | <b>89.9511</b> | <b>7.3200e-003</b> | <b>1.5400e-003</b> | <b>90.5932</b> |

### Mitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| SubCategory           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |                    |                |
| Architectural Coating | 0.1152        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Consumer Products     | 1.6374        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Hearth                | 8.4900e-003   | 0.0726        | 0.0309        | 4.6000e-004        |               | 5.8700e-003   | 5.8700e-003   |                | 5.8700e-003   | 5.8700e-003   | 0.0000        | 84.0480        | 84.0480        | 1.6100e-003        | 1.5400e-003        | 84.5475        |
| Landscaping           | 0.1095        | 0.0417        | 3.6170        | 1.9000e-004        |               | 0.0200        | 0.0200        |                | 0.0200        | 0.0200        | 0.0000        | 5.9031         | 5.9031         | 5.7100e-003        | 0.0000             | 6.0458         |
| <b>Total</b>          | <b>1.8706</b> | <b>0.1143</b> | <b>3.6479</b> | <b>6.5000e-004</b> |               | <b>0.0259</b> | <b>0.0259</b> |                | <b>0.0259</b> | <b>0.0259</b> | <b>0.0000</b> | <b>89.9511</b> | <b>89.9511</b> | <b>7.3200e-003</b> | <b>1.5400e-003</b> | <b>90.5932</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 135.8241  | 0.6263 | 0.0158 | 156.1797 |
| Unmitigated | 160.3941  | 0.7824 | 0.0196 | 185.8050 |

### 7.2 Water by Land Use

#### Unmitigated

|                                     | Indoor/Outdoor Use  | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|---------------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | Mgal                | MT/yr           |               |               |                 |
| Apartments Mid Rise                 | 22.8039 / 14.3764   | 152.7335        | 0.7491        | 0.0188        | 177.0592        |
| City Park                           | 0 / 0.595741        | 2.1089          | 9.0000e-005   | 2.0000e-005   | 2.1164          |
| Enclosed Parking with Elevator      | 0 / 0               | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| High Turnover (Sit Down Restaurant) | 0.607067 / 0.038749 | 2.8483          | 0.0199        | 4.9000e-004   | 3.4916          |
| Other Asphalt Surfaces              | 0 / 0               | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0 / 0               | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Strip Mall                          | 0.407399 / 0.249696 | 2.7034          | 0.0134        | 3.4000e-004   | 3.1378          |
| <b>Total</b>                        |                     | <b>160.3940</b> | <b>0.7824</b> | <b>0.0196</b> | <b>185.8050</b> |

## Mitigated

|                                     | Indoor/Outdoor Use   | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------------------|----------------------|-----------------|---------------|---------------|-----------------|
| Land Use                            | Mgal                 | MT/yr           |               |               |                 |
| Apartments Mid Rise                 | 18.2431 / 13.4994    | 129.2606        | 0.5996        | 0.0151        | 148.7465        |
| City Park                           | 0 / 0.5594           | 1.9802          | 8.0000e-005   | 2.0000e-005   | 1.9873          |
| Enclosed Parking with Elevator      | 0 / 0                | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| High Turnover (Sit Down Restaurant) | 0.485654 / 0.0363853 | 2.2977          | 0.0159        | 3.9000e-004   | 2.8124          |
| Other Asphalt Surfaces              | 0 / 0                | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Parking Lot                         | 0 / 0                | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Strip Mall                          | 0.325919 / 0.234465  | 2.2855          | 0.0107        | 2.7000e-004   | 2.6336          |
| <b>Total</b>                        |                      | <b>135.8241</b> | <b>0.6263</b> | <b>0.0158</b> | <b>156.1797</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 38.6941   | 2.2868 | 0.0000 | 95.8631 |
| Unmitigated | 38.6941   | 2.2868 | 0.0000 | 95.8631 |

## 8.2 Waste by Land Use

### Unmitigated

|                                     | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use                            | tons           | MT/yr          |               |               |                |
| Apartments Mid Rise                 | 161            | 32.6816        | 1.9314        | 0.0000        | 80.9671        |
| City Park                           | 0.04           | 8.1200e-003    | 4.8000e-004   | 0.0000        | 0.0201         |
| Enclosed Parking with Elevator      | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| High Turnover (Sit Down Restaurant) | 23.8           | 4.8312         | 0.2855        | 0.0000        | 11.9691        |
| Other Asphalt Surfaces              | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                         | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Strip Mall                          | 5.78           | 1.1733         | 0.0693        | 0.0000        | 2.9068         |
| <b>Total</b>                        |                | <b>38.6941</b> | <b>2.2868</b> | <b>0.0000</b> | <b>95.8631</b> |

### Mitigated

|                                     | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use                            | tons           | MT/yr          |               |               |                |
| Apartments Mid Rise                 | 161            | 32.6816        | 1.9314        | 0.0000        | 80.9671        |
| City Park                           | 0.04           | 8.1200e-003    | 4.8000e-004   | 0.0000        | 0.0201         |
| Enclosed Parking with Elevator      | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| High Turnover (Sit Down Restaurant) | 23.8           | 4.8312         | 0.2855        | 0.0000        | 11.9691        |
| Other Asphalt Surfaces              | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Parking Lot                         | 0              | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Strip Mall                          | 5.78           | 1.1733         | 0.0693        | 0.0000        | 2.9068         |
| <b>Total</b>                        |                | <b>38.6941</b> | <b>2.2868</b> | <b>0.0000</b> | <b>95.8631</b> |

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

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### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

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Operation Proposed - Orange County, Summer

## Operation Proposed Orange County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan and info provided.

Construction Phase -

Vehicle Trips - Based on information provide by LSA and 10th Ed ITE Trip Generation Manual. See assumptions file.

Fleet Mix - Based on 97/2/1 light duty auto, medium duty truck, and heavy duty truck ratio.

Woodstoves - Assumes no woodstoves and 100% gas fireplaces.

Area Coating - Based on information provided.

Water Mitigation -

| Table Name     | Column Name                  | Default Value | New Value   |
|----------------|------------------------------|---------------|-------------|
| tblAreaCoating | Area_Nonresidential_Exterior | 3750          | 2813        |
| tblAreaCoating | Area_Nonresidential_Interior | 11250         | 9000        |
| tblAreaCoating | Area_Residential_Exterior    | 297423        | 223067      |
| tblAreaCoating | Area_Residential_Interior    | 892270        | 713816      |
| tblFireplaces  | NumberGas                    | 297.50        | 350.00      |
| tblFireplaces  | NumberNoFireplace            | 35.00         | 0.00        |
| tblFireplaces  | NumberWood                   | 17.50         | 0.00        |
| tblFleetMix    | HHD                          | 0.02          | 2.4780e-003 |
| tblFleetMix    | LDA                          | 0.56          | 0.66        |
| tblFleetMix    | LDT1                         | 0.04          | 0.05        |
| tblFleetMix    | LDT2                         | 0.21          | 0.25        |
| tblFleetMix    | LHD1                         | 0.02          | 2.2490e-003 |
| tblFleetMix    | LHD2                         | 5.7950e-003   | 8.3900e-004 |
| tblFleetMix    | MCY                          | 4.9260e-003   | 5.8340e-003 |
| tblFleetMix    | MDV                          | 0.11          | 0.02        |
| tblFleetMix    | MH                           | 9.3400e-004   | 1.3500e-004 |
| tblFleetMix    | MHD                          | 0.03          | 3.7370e-003 |
| tblFleetMix    | OBUS                         | 1.7470e-003   | 2.5300e-004 |

|                 |                    |             |             |
|-----------------|--------------------|-------------|-------------|
| tblFleetMix     | SBUS               | 5.9400e-004 | 8.6000e-005 |
| tblFleetMix     | UBUS               | 1.5420e-003 | 2.2300e-004 |
| tblLandUse      | LandUseSquareFeet  | 278,340.00  | 278,337.00  |
| tblLandUse      | LandUseSquareFeet  | 14,374.80   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 21,780.00   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 350,000.00  | 440,627.00  |
| tblLandUse      | LotAcreage         | 6.39        | 1.06        |
| tblLandUse      | LotAcreage         | 0.05        | 0.00        |
| tblLandUse      | LotAcreage         | 9.21        | 3.74        |
| tblLandUse      | LotAcreage         | 0.13        | 0.00        |
| tblVehicleTrips | ST_TR              | 6.39        | 4.91        |
| tblVehicleTrips | ST_TR              | 22.75       | 0.00        |
| tblVehicleTrips | ST_TR              | 158.37      | 122.40      |
| tblVehicleTrips | ST_TR              | 42.04       | 36.00       |
| tblVehicleTrips | SU_TR              | 5.86        | 4.09        |
| tblVehicleTrips | SU_TR              | 16.74       | 0.00        |
| tblVehicleTrips | SU_TR              | 131.84      | 142.64      |
| tblVehicleTrips | SU_TR              | 20.43       | 36.00       |
| tblVehicleTrips | WD_TR              | 6.65        | 5.44        |
| tblVehicleTrips | WD_TR              | 1.89        | 0.00        |
| tblVehicleTrips | WD_TR              | 127.15      | 112.80      |
| tblVehicleTrips | WD_TR              | 44.32       | 36.00       |
| tblWoodstoves   | NumberCatalytic    | 17.50       | 0.00        |
| tblWoodstoves   | NumberNoncatalytic | 17.50       | 0.00        |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 11.1587        | 6.1395         | 31.4067        | 0.0386        |                | 0.6292        | 0.6292         |                | 0.6292        | 0.6292        | 0.0000        | 7,463.8212         | 7,463.8212         | 0.1924        | 0.1359        | 7,509.1238         |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.3000e-003   |                | 0.0925        | 0.0925         |                | 0.0925        | 0.0925        |               | 1,459.8714         | 1,459.8714         | 0.0280        | 0.0268        | 1,468.5467         |
| Mobile       | 3.1099         | 5.5817         | 40.8252        | 0.1424        | 15.2296        | 0.1017        | 15.3312        | 4.0448         | 0.0939        | 4.1387        |               | 14,270.5040        | 14,270.5040        | 0.4491        |               | 14,281.7324        |
| <b>Total</b> | <b>14.4024</b> | <b>12.8733</b> | <b>72.7811</b> | <b>0.1882</b> | <b>15.2296</b> | <b>0.8234</b> | <b>16.0529</b> | <b>4.0448</b>  | <b>0.8156</b> | <b>4.8604</b> | <b>0.0000</b> | <b>23,194.1967</b> | <b>23,194.1967</b> | <b>0.6695</b> | <b>0.1626</b> | <b>23,259.4029</b> |

#### Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 11.1587        | 6.1395         | 31.4067        | 0.0386        |                | 0.6292        | 0.6292         |                | 0.6292        | 0.6292        | 0.0000        | 7,463.8212         | 7,463.8212         | 0.1924        | 0.1359        | 7,509.1238         |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.3000e-003   |                | 0.0925        | 0.0925         |                | 0.0925        | 0.0925        |               | 1,459.8714         | 1,459.8714         | 0.0280        | 0.0268        | 1,468.5467         |
| Mobile       | 3.1099         | 5.5817         | 40.8252        | 0.1424        | 15.2296        | 0.1017        | 15.3312        | 4.0448         | 0.0939        | 4.1387        |               | 14,270.5040        | 14,270.5040        | 0.4491        |               | 14,281.7324        |
| <b>Total</b> | <b>14.4024</b> | <b>12.8733</b> | <b>72.7811</b> | <b>0.1882</b> | <b>15.2296</b> | <b>0.8234</b> | <b>16.0529</b> | <b>4.0448</b>  | <b>0.8156</b> | <b>4.8604</b> | <b>0.0000</b> | <b>23,194.1967</b> | <b>23,194.1967</b> | <b>0.6695</b> | <b>0.1626</b> | <b>23,259.4029</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 3.1099 | 5.5817 | 40.8252 | 0.1424 | 15.2296       | 0.1017       | 15.3312    | 4.0448         | 0.0939        | 4.1387      |          | 14,270.5040 | 14,270.5040 | 0.4491 |     | 14,281.7324 |
| Unmitigated | 3.1099 | 5.5817 | 40.8252 | 0.1424 | 15.2296       | 0.1017       | 15.3312    | 4.0448         | 0.0939        | 4.1387      |          | 14,270.5040 | 14,270.5040 | 0.4491 |     | 14,281.7324 |

### 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Mid Rise                 | 1,904.00                | 1,718.50 | 1431.50  | 6,185,045   | 6,185,045  |
| City Park                           | 0.00                    | 0.00     | 0.00     |             |            |
| Enclosed Parking with Elevator      | 0.00                    | 0.00     | 0.00     |             |            |
| High Turnover (Sit Down Restaurant) | 225.60                  | 244.80   | 285.28   | 322,812     | 322,812    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Strip Mall                          | 198.00                  | 198.00   | 198.00   | 376,714     | 376,714    |
| Total                               | 2,327.60                | 2,161.30 | 1,914.78 | 6,884,571   | 6,884,571  |

### 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise                 | 14.70      | 5.90       | 8.70        | 40.20     | 19.20      | 40.60       | 86             | 11       | 3       |
| City Park                           | 16.60      | 8.40       | 6.90        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50      | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60     | 64.40      | 19.00       | 45             | 40       | 15      |

### 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise                 | 0.664830 | 0.051261 | 0.248075 | 0.020000 | 0.002249 | 0.000839 | 0.003737 | 0.002478 | 0.000253 | 0.000223 | 0.005834 | 0.000086 | 0.000135 |
| City Park                           | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Enclosed Parking with Elevator      | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1338 | 1.1521 | 0.5492 | 7.3000e-003 |               | 0.0925       | 0.0925     |                | 0.0925        | 0.0925      |          | 1,459.8714 | 1,459.8714 | 0.0280 | 0.0268 | 1,468.5467 |
| NaturalGas Unmitigated | 0.1338 | 1.1521 | 0.5492 | 7.3000e-003 |               | 0.0925       | 0.0925     |                | 0.0925        | 0.0925      |          | 1,459.8714 | 1,459.8714 | 0.0280 | 0.0268 | 1,468.5467 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Apartments Mid Rise                 | 10957.8        | 0.1182        | 1.0098        | 0.4297        | 6.4500e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 1,289.1575        | 1,289.1575        | 0.0247        | 0.0236        | 1,296.8183        |
| City Park                           | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Enclosed Parking with Elevator      | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| High Turnover (Sit Down Restaurant) | 1420.93        | 0.0153        | 0.1393        | 0.1170        | 8.4000e-004        |               | 0.0106        | 0.0106        |                | 0.0106        | 0.0106        |          | 167.1684          | 167.1684          | 3.2000e-003   | 3.0600e-003   | 168.1618          |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                          | 30.137         | 3.3000e-004   | 2.9500e-003   | 2.4800e-003   | 2.0000e-005        |               | 2.2000e-004   | 2.2000e-004   |                | 2.2000e-004   | 2.2000e-004   |          | 3.5455            | 3.5455            | 7.0000e-005   | 7.0000e-005   | 3.5666            |
| <b>Total</b>                        |                | <b>0.1338</b> | <b>1.1521</b> | <b>0.5492</b> | <b>7.3100e-003</b> |               | <b>0.0925</b> | <b>0.0925</b> |                | <b>0.0925</b> | <b>0.0925</b> |          | <b>1,459.8714</b> | <b>1,459.8714</b> | <b>0.0280</b> | <b>0.0268</b> | <b>1,468.5467</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Apartments Mid Rise                 | 10.9578         | 0.1182        | 1.0098        | 0.4297        | 6.4500e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 1,289.1575        | 1,289.1575        | 0.0247        | 0.0236        | 1,296.8183        |
| City Park                           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Enclosed Parking with Elevator      | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| High Turnover (Sit Down Restaurant) | 1.42093         | 0.0153        | 0.1393        | 0.1170        | 8.4000e-004        |               | 0.0106        | 0.0106        |                | 0.0106        | 0.0106        |          | 167.1684          | 167.1684          | 3.2000e-003   | 3.0600e-003   | 168.1618          |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                          | 0.030137        | 3.3000e-004   | 2.9500e-003   | 2.4800e-003   | 2.0000e-005        |               | 2.2000e-004   | 2.2000e-004   |                | 2.2000e-004   | 2.2000e-004   |          | 3.5455            | 3.5455            | 7.0000e-005   | 7.0000e-005   | 3.5666            |
| <b>Total</b>                        |                 | <b>0.1338</b> | <b>1.1521</b> | <b>0.5492</b> | <b>7.3100e-003</b> |               | <b>0.0925</b> | <b>0.0925</b> |                | <b>0.0925</b> | <b>0.0925</b> |          | <b>1,459.8714</b> | <b>1,459.8714</b> | <b>0.0280</b> | <b>0.0268</b> | <b>1,468.5467</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 11.1587 | 6.1395 | 31.4067 | 0.0386 |               | 0.6292       | 0.6292     |                | 0.6292        | 0.6292      | 0.0000   | 7,463.8212 | 7,463.8212 | 0.1924 | 0.1359 | 7,509.1238 |
| Unmitigated | 11.1587 | 6.1395 | 31.4067 | 0.0386 |               | 0.6292       | 0.6292     |                | 0.6292        | 0.6292      | 0.0000   | 7,463.8212 | 7,463.8212 | 0.1924 | 0.1359 | 7,509.1238 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.6312         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 8.9723         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.6794         | 5.8059        | 2.4706         | 0.0371        |               | 0.4694        | 0.4694        |                | 0.4694        | 0.4694        | 0.0000        | 7,411.7647        | 7,411.7647        | 0.1421        | 0.1359        | 7,455.8091        |
| Landscaping           | 0.8758         | 0.3337        | 28.9361        | 1.5300e-003   |               | 0.1598        | 0.1598        |                | 0.1598        | 0.1598        |               | 52.0565           | 52.0565           | 0.0503        |               | 53.3147           |
| <b>Total</b>          | <b>11.1587</b> | <b>6.1395</b> | <b>31.4067</b> | <b>0.0386</b> |               | <b>0.6292</b> | <b>0.6292</b> |                | <b>0.6292</b> | <b>0.6292</b> | <b>0.0000</b> | <b>7,463.8213</b> | <b>7,463.8213</b> | <b>0.1924</b> | <b>0.1359</b> | <b>7,509.1238</b> |

### Mitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.6312         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 8.9723         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.6794         | 5.8059        | 2.4706         | 0.0371        |               | 0.4694        | 0.4694        |                | 0.4694        | 0.4694        | 0.0000        | 7,411.7647        | 7,411.7647        | 0.1421        | 0.1359        | 7,455.8091        |
| Landscaping           | 0.8758         | 0.3337        | 28.9361        | 1.5300e-003   |               | 0.1598        | 0.1598        |                | 0.1598        | 0.1598        |               | 52.0565           | 52.0565           | 0.0503        |               | 53.3147           |
| <b>Total</b>          | <b>11.1587</b> | <b>6.1395</b> | <b>31.4067</b> | <b>0.0386</b> |               | <b>0.6292</b> | <b>0.6292</b> |                | <b>0.6292</b> | <b>0.6292</b> | <b>0.0000</b> | <b>7,463.8213</b> | <b>7,463.8213</b> | <b>0.1924</b> | <b>0.1359</b> | <b>7,509.1238</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet  
Install Low Flow Kitchen Faucet  
Install Low Flow Toilet  
Install Low Flow Shower  
Use Water Efficient Irrigation System

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

Operation Proposed - Orange County, Winter

## Operation Proposed Orange County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2022  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on site plan and info provided.

Construction Phase -

Vehicle Trips - Based on information provide by LSA and 10th Ed ITE Trip Generation Manual. See assumptions file.

Fleet Mix - Based on 97/2/1 light duty auto, medium duty truck, and heavy duty truck ratio.

Woodstoves - Assumes no woodstoves and 100% gas fireplaces.

Area Coating - Based on information provided.

Water Mitigation -

| Table Name     | Column Name                  | Default Value | New Value   |
|----------------|------------------------------|---------------|-------------|
| tblAreaCoating | Area_Nonresidential_Exterior | 3750          | 2813        |
| tblAreaCoating | Area_Nonresidential_Interior | 11250         | 9000        |
| tblAreaCoating | Area_Residential_Exterior    | 297423        | 223067      |
| tblAreaCoating | Area_Residential_Interior    | 892270        | 713816      |
| tblFireplaces  | NumberGas                    | 297.50        | 350.00      |
| tblFireplaces  | NumberNoFireplace            | 35.00         | 0.00        |
| tblFireplaces  | NumberWood                   | 17.50         | 0.00        |
| tblFleetMix    | HHD                          | 0.02          | 2.4780e-003 |
| tblFleetMix    | LDA                          | 0.56          | 0.66        |
| tblFleetMix    | LDT1                         | 0.04          | 0.05        |
| tblFleetMix    | LDT2                         | 0.21          | 0.25        |
| tblFleetMix    | LHD1                         | 0.02          | 2.2490e-003 |
| tblFleetMix    | LHD2                         | 5.7950e-003   | 8.3900e-004 |
| tblFleetMix    | MCY                          | 4.9260e-003   | 5.8340e-003 |
| tblFleetMix    | MDV                          | 0.11          | 0.02        |
| tblFleetMix    | MH                           | 9.3400e-004   | 1.3500e-004 |
| tblFleetMix    | MHD                          | 0.03          | 3.7370e-003 |
| tblFleetMix    | OBUS                         | 1.7470e-003   | 2.5300e-004 |

|                 |                    |             |             |
|-----------------|--------------------|-------------|-------------|
| tblFleetMix     | SBUS               | 5.9400e-004 | 8.6000e-005 |
| tblFleetMix     | UBUS               | 1.5420e-003 | 2.2300e-004 |
| tblLandUse      | LandUseSquareFeet  | 278,340.00  | 278,337.00  |
| tblLandUse      | LandUseSquareFeet  | 14,374.80   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 21,780.00   | 0.00        |
| tblLandUse      | LandUseSquareFeet  | 350,000.00  | 440,627.00  |
| tblLandUse      | LotAcreage         | 6.39        | 1.06        |
| tblLandUse      | LotAcreage         | 0.05        | 0.00        |
| tblLandUse      | LotAcreage         | 9.21        | 3.74        |
| tblLandUse      | LotAcreage         | 0.13        | 0.00        |
| tblVehicleTrips | ST_TR              | 6.39        | 4.91        |
| tblVehicleTrips | ST_TR              | 22.75       | 0.00        |
| tblVehicleTrips | ST_TR              | 158.37      | 122.40      |
| tblVehicleTrips | ST_TR              | 42.04       | 36.00       |
| tblVehicleTrips | SU_TR              | 5.86        | 4.09        |
| tblVehicleTrips | SU_TR              | 16.74       | 0.00        |
| tblVehicleTrips | SU_TR              | 131.84      | 142.64      |
| tblVehicleTrips | SU_TR              | 20.43       | 36.00       |
| tblVehicleTrips | WD_TR              | 6.65        | 5.44        |
| tblVehicleTrips | WD_TR              | 1.89        | 0.00        |
| tblVehicleTrips | WD_TR              | 127.15      | 112.80      |
| tblVehicleTrips | WD_TR              | 44.32       | 36.00       |
| tblWoodstoves   | NumberCatalytic    | 17.50       | 0.00        |
| tblWoodstoves   | NumberNoncatalytic | 17.50       | 0.00        |

## 2.0 Emissions Summary

### 2.2 Overall Operational

#### Unmitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 11.1587        | 6.1395         | 31.4067        | 0.0386        |                | 0.6292        | 0.6292         |                | 0.6292        | 0.6292        | 0.0000        | 7,463.8212         | 7,463.8212         | 0.1924        | 0.1359        | 7,509.1238         |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.3000e-003   |                | 0.0925        | 0.0925         |                | 0.0925        | 0.0925        |               | 1,459.8714         | 1,459.8714         | 0.0280        | 0.0268        | 1,468.5467         |
| Mobile       | 3.0446         | 5.8520         | 38.8424        | 0.1351        | 15.2296        | 0.1019        | 15.3314        | 4.0448         | 0.0941        | 4.1388        |               | 13,545.8696        | 13,545.8696        | 0.4434        |               | 13,556.9553        |
| <b>Total</b> | <b>14.3371</b> | <b>13.1437</b> | <b>70.7982</b> | <b>0.1810</b> | <b>15.2296</b> | <b>0.8236</b> | <b>16.0531</b> | <b>4.0448</b>  | <b>0.8157</b> | <b>4.8605</b> | <b>0.0000</b> | <b>22,469.5623</b> | <b>22,469.5623</b> | <b>0.6638</b> | <b>0.1626</b> | <b>22,534.6258</b> |

#### Mitigated Operational

|              | ROG            | NOx            | CO             | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category     | lb/day         |                |                |               |                |               |                |                |               |               | lb/day        |                    |                    |               |               |                    |
| Area         | 11.1587        | 6.1395         | 31.4067        | 0.0386        |                | 0.6292        | 0.6292         |                | 0.6292        | 0.6292        | 0.0000        | 7,463.8212         | 7,463.8212         | 0.1924        | 0.1359        | 7,509.1238         |
| Energy       | 0.1338         | 1.1521         | 0.5492         | 7.3000e-003   |                | 0.0925        | 0.0925         |                | 0.0925        | 0.0925        |               | 1,459.8714         | 1,459.8714         | 0.0280        | 0.0268        | 1,468.5467         |
| Mobile       | 3.0446         | 5.8520         | 38.8424        | 0.1351        | 15.2296        | 0.1019        | 15.3314        | 4.0448         | 0.0941        | 4.1388        |               | 13,545.8696        | 13,545.8696        | 0.4434        |               | 13,556.9553        |
| <b>Total</b> | <b>14.3371</b> | <b>13.1437</b> | <b>70.7982</b> | <b>0.1810</b> | <b>15.2296</b> | <b>0.8236</b> | <b>16.0531</b> | <b>4.0448</b>  | <b>0.8157</b> | <b>4.8605</b> | <b>0.0000</b> | <b>22,469.5623</b> | <b>22,469.5623</b> | <b>0.6638</b> | <b>0.1626</b> | <b>22,534.6258</b> |

|                          | ROG         | NOx         | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2    | NBio- CO2   | Total CO2   | CH4         | N2O         | CO2e        |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Percent Reduction</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.00</b>  | <b>0.00</b> | <b>0.00</b>    | <b>0.00</b>   | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|------------|------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition | Demolition | 7/15/2018  | 8/10/2018 | 5             | 20       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### OffRoad Equipment

| Phase Name | Offroad Equipment Type   | Amount | Usage Hours | Horse Power | Load Factor |
|------------|--------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1      | 8.00        | 81          | 0.73        |
| Demolition | Excavators               | 3      | 8.00        | 158         | 0.38        |
| Demolition | Rubber Tired Dozers      | 2      | 8.00        | 247         | 0.40        |

#### Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 6                       | 15.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

### 3.2 Demolition - 2018

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 3.7190        | 38.3225        | 22.3040        | 0.0388        |               | 1.9386        | 1.9386        |                | 1.8048        | 1.8048        |          | 3,871.7665        | 3,871.7665        | 1.0667        |     | 3,898.4344        |
| <b>Total</b> | <b>3.7190</b> | <b>38.3225</b> | <b>22.3040</b> | <b>0.0388</b> |               | <b>1.9386</b> | <b>1.9386</b> |                | <b>1.8048</b> | <b>1.8048</b> |          | <b>3,871.7665</b> | <b>3,871.7665</b> | <b>1.0667</b> |     | <b>3,898.4344</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0757        | 0.0502        | 0.5471        | 1.6500e-003        | 0.1677        | 1.1100e-003        | 0.1688        | 0.0445         | 1.0200e-003        | 0.0455        |          | 164.2196        | 164.2196        | 4.3700e-003        |     | 164.3288        |
| <b>Total</b> | <b>0.0757</b> | <b>0.0502</b> | <b>0.5471</b> | <b>1.6500e-003</b> | <b>0.1677</b> | <b>1.1100e-003</b> | <b>0.1688</b> | <b>0.0445</b>  | <b>1.0200e-003</b> | <b>0.0455</b> |          | <b>164.2196</b> | <b>164.2196</b> | <b>4.3700e-003</b> |     | <b>164.3288</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 3.7190        | 38.3225        | 22.3040        | 0.0388        |               | 1.9386        | 1.9386        |                | 1.8048        | 1.8048        | 0.0000        | 3,871.7665        | 3,871.7665        | 1.0667        |     | 3,898.4344        |
| <b>Total</b> | <b>3.7190</b> | <b>38.3225</b> | <b>22.3040</b> | <b>0.0388</b> |               | <b>1.9386</b> | <b>1.9386</b> |                | <b>1.8048</b> | <b>1.8048</b> | <b>0.0000</b> | <b>3,871.7665</b> | <b>3,871.7665</b> | <b>1.0667</b> |     | <b>3,898.4344</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0757        | 0.0502        | 0.5471        | 1.6500e-003        | 0.1677        | 1.1100e-003        | 0.1688        | 0.0445         | 1.0200e-003        | 0.0455        |          | 164.2196        | 164.2196        | 4.3700e-003        |     | 164.3288        |
| <b>Total</b> | <b>0.0757</b> | <b>0.0502</b> | <b>0.5471</b> | <b>1.6500e-003</b> | <b>0.1677</b> | <b>1.1100e-003</b> | <b>0.1688</b> | <b>0.0445</b>  | <b>1.0200e-003</b> | <b>0.0455</b> |          | <b>164.2196</b> | <b>164.2196</b> | <b>4.3700e-003</b> |     | <b>164.3288</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O | CO2e        |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|-----|-------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |             |             |        |     |             |
| Mitigated   | 3.0446 | 5.8520 | 38.8424 | 0.1351 | 15.2296       | 0.1019       | 15.3314    | 4.0448         | 0.0941        | 4.1388      |          | 13,545.8696 | 13,545.8696 | 0.4434 |     | 13,556.9553 |
| Unmitigated | 3.0446 | 5.8520 | 38.8424 | 0.1351 | 15.2296       | 0.1019       | 15.3314    | 4.0448         | 0.0941        | 4.1388      |          | 13,545.8696 | 13,545.8696 | 0.4434 |     | 13,556.9553 |

### 4.2 Trip Summary Information

| Land Use                            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|-------------------------------------|-------------------------|----------|----------|-------------|------------|
|                                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Mid Rise                 | 1,904.00                | 1,718.50 | 1431.50  | 6,185,045   | 6,185,045  |
| City Park                           | 0.00                    | 0.00     | 0.00     |             |            |
| Enclosed Parking with Elevator      | 0.00                    | 0.00     | 0.00     |             |            |
| High Turnover (Sit Down Restaurant) | 225.60                  | 244.80   | 285.28   | 322,812     | 322,812    |
| Other Asphalt Surfaces              | 0.00                    | 0.00     | 0.00     |             |            |
| Parking Lot                         | 0.00                    | 0.00     | 0.00     |             |            |
| Strip Mall                          | 198.00                  | 198.00   | 198.00   | 376,714     | 376,714    |
| Total                               | 2,327.60                | 2,161.30 | 1,914.78 | 6,884,571   | 6,884,571  |

### 4.3 Trip Type Information

| Land Use                            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-------------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise                 | 14.70      | 5.90       | 8.70        | 40.20      | 19.20      | 40.60       | 86             | 11       | 3       |
| City Park                           | 16.60      | 8.40       | 6.90        | 33.00      | 48.00      | 19.00       | 66             | 28       | 6       |
| Enclosed Parking with Elevator      | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| High Turnover (Sit Down Restaurant) | 16.60      | 8.40       | 6.90        | 8.50       | 72.50      | 19.00       | 37             | 20       | 43      |
| Other Asphalt Surfaces              | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Parking Lot                         | 16.60      | 8.40       | 6.90        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Strip Mall                          | 16.60      | 8.40       | 6.90        | 16.60      | 64.40      | 19.00       | 45             | 40       | 15      |

### 4.4 Fleet Mix

| Land Use                            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise                 | 0.664830 | 0.051261 | 0.248075 | 0.020000 | 0.002249 | 0.000839 | 0.003737 | 0.002478 | 0.000253 | 0.000223 | 0.005834 | 0.000086 | 0.000135 |
| City Park                           | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Enclosed Parking with Elevator      | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| High Turnover (Sit Down Restaurant) | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Other Asphalt Surfaces              | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Parking Lot                         | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |
| Strip Mall                          | 0.561378 | 0.043284 | 0.209473 | 0.111826 | 0.015545 | 0.005795 | 0.025829 | 0.017125 | 0.001747 | 0.001542 | 0.004926 | 0.000594 | 0.000934 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                        | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category               | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1338 | 1.1521 | 0.5492 | 7.3000e-003 |               | 0.0925       | 0.0925     |                | 0.0925        | 0.0925      |          | 1,459.8714 | 1,459.8714 | 0.0280 | 0.0268 | 1,468.5467 |
| NaturalGas Unmitigated | 0.1338 | 1.1521 | 0.5492 | 7.3000e-003 |               | 0.0925       | 0.0925     |                | 0.0925        | 0.0925      |          | 1,459.8714 | 1,459.8714 | 0.0280 | 0.0268 | 1,468.5467 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

|                                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr        | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Apartments Mid Rise                 | 10957.8        | 0.1182        | 1.0098        | 0.4297        | 6.4500e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 1,289.1575        | 1,289.1575        | 0.0247        | 0.0236        | 1,296.8183        |
| City Park                           | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Enclosed Parking with Elevator      | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| High Turnover (Sit Down Restaurant) | 1420.93        | 0.0153        | 0.1393        | 0.1170        | 8.4000e-004        |               | 0.0106        | 0.0106        |                | 0.0106        | 0.0106        |          | 167.1684          | 167.1684          | 3.2000e-003   | 3.0600e-003   | 168.1618          |
| Other Asphalt Surfaces              | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                         | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                          | 30.137         | 3.3000e-004   | 2.9500e-003   | 2.4800e-003   | 2.0000e-005        |               | 2.2000e-004   | 2.2000e-004   |                | 2.2000e-004   | 2.2000e-004   |          | 3.5455            | 3.5455            | 7.0000e-005   | 7.0000e-005   | 3.5666            |
| <b>Total</b>                        |                | <b>0.1338</b> | <b>1.1521</b> | <b>0.5492</b> | <b>7.3100e-003</b> |               | <b>0.0925</b> | <b>0.0925</b> |                | <b>0.0925</b> | <b>0.0925</b> |          | <b>1,459.8714</b> | <b>1,459.8714</b> | <b>0.0280</b> | <b>0.0268</b> | <b>1,468.5467</b> |

## Mitigated

|                                     | Natural Gas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use                            | kBTU/yr         | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Apartments Mid Rise                 | 10.9578         | 0.1182        | 1.0098        | 0.4297        | 6.4500e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 1,289.1575        | 1,289.1575        | 0.0247        | 0.0236        | 1,296.8183        |
| City Park                           | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Enclosed Parking with Elevator      | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| High Turnover (Sit Down Restaurant) | 1.42093         | 0.0153        | 0.1393        | 0.1170        | 8.4000e-004        |               | 0.0106        | 0.0106        |                | 0.0106        | 0.0106        |          | 167.1684          | 167.1684          | 3.2000e-003   | 3.0600e-003   | 168.1618          |
| Other Asphalt Surfaces              | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Parking Lot                         | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Strip Mall                          | 0.030137        | 3.3000e-004   | 2.9500e-003   | 2.4800e-003   | 2.0000e-005        |               | 2.2000e-004   | 2.2000e-004   |                | 2.2000e-004   | 2.2000e-004   |          | 3.5455            | 3.5455            | 7.0000e-005   | 7.0000e-005   | 3.5666            |
| <b>Total</b>                        |                 | <b>0.1338</b> | <b>1.1521</b> | <b>0.5492</b> | <b>7.3100e-003</b> |               | <b>0.0925</b> | <b>0.0925</b> |                | <b>0.0925</b> | <b>0.0925</b> |          | <b>1,459.8714</b> | <b>1,459.8714</b> | <b>0.0280</b> | <b>0.0268</b> | <b>1,468.5467</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| Mitigated   | 11.1587 | 6.1395 | 31.4067 | 0.0386 |               | 0.6292       | 0.6292     |                | 0.6292        | 0.6292      | 0.0000   | 7,463.8212 | 7,463.8212 | 0.1924 | 0.1359 | 7,509.1238 |
| Unmitigated | 11.1587 | 6.1395 | 31.4067 | 0.0386 |               | 0.6292       | 0.6292     |                | 0.6292        | 0.6292      | 0.0000   | 7,463.8212 | 7,463.8212 | 0.1924 | 0.1359 | 7,509.1238 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.6312         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 8.9723         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.6794         | 5.8059        | 2.4706         | 0.0371        |               | 0.4694        | 0.4694        |                | 0.4694        | 0.4694        | 0.0000        | 7,411.7647        | 7,411.7647        | 0.1421        | 0.1359        | 7,455.8091        |
| Landscaping           | 0.8758         | 0.3337        | 28.9361        | 1.5300e-003   |               | 0.1598        | 0.1598        |                | 0.1598        | 0.1598        |               | 52.0565           | 52.0565           | 0.0503        |               | 53.3147           |
| <b>Total</b>          | <b>11.1587</b> | <b>6.1395</b> | <b>31.4067</b> | <b>0.0386</b> |               | <b>0.6292</b> | <b>0.6292</b> |                | <b>0.6292</b> | <b>0.6292</b> | <b>0.0000</b> | <b>7,463.8213</b> | <b>7,463.8213</b> | <b>0.1924</b> | <b>0.1359</b> | <b>7,509.1238</b> |

### Mitigated

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory           | lb/day         |               |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| Architectural Coating | 0.6312         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Consumer Products     | 8.9723         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |               | 0.0000            |
| Hearth                | 0.6794         | 5.8059        | 2.4706         | 0.0371        |               | 0.4694        | 0.4694        |                | 0.4694        | 0.4694        | 0.0000        | 7,411.7647        | 7,411.7647        | 0.1421        | 0.1359        | 7,455.8091        |
| Landscaping           | 0.8758         | 0.3337        | 28.9361        | 1.5300e-003   |               | 0.1598        | 0.1598        |                | 0.1598        | 0.1598        |               | 52.0565           | 52.0565           | 0.0503        |               | 53.3147           |
| <b>Total</b>          | <b>11.1587</b> | <b>6.1395</b> | <b>31.4067</b> | <b>0.0386</b> |               | <b>0.6292</b> | <b>0.6292</b> |                | <b>0.6292</b> | <b>0.6292</b> | <b>0.0000</b> | <b>7,463.8213</b> | <b>7,463.8213</b> | <b>0.1924</b> | <b>0.1359</b> | <b>7,509.1238</b> |

## 7.0 Water Detail

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### 7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet  
Install Low Flow Kitchen Faucet  
Install Low Flow Toilet  
Install Low Flow Shower  
Use Water Efficient Irrigation System

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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| Equipment Type | Number | Hours/Day | Days/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|-----------|-------------|-------------|-----------|
|----------------|--------|-----------|-----------|-------------|-------------|-----------|

## 10.0 Stationary Equipment

---

### Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|----------------|--------|-----------|------------|-------------|-------------|-----------|
|----------------|--------|-----------|------------|-------------|-------------|-----------|

### Boilers

| Equipment Type | Number | Heat Input/Day | Heat Input/Year | Boiler Rating | Fuel Type |
|----------------|--------|----------------|-----------------|---------------|-----------|
|----------------|--------|----------------|-----------------|---------------|-----------|

### User Defined Equipment

| Equipment Type | Number |
|----------------|--------|
|----------------|--------|

## 11.0 Vegetation

**Operation Proposed**  
**Orange County, Mitigation Report**

**Operational Percent Reduction Summary**

| Category              | ROG  | NOx  | CO   | SO2  | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4   | N2O   | CO2e  |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|-------|-------|-------|
| Percent Reduction     |      |      |      |      |              |               |          |           |           |       |       |       |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Consumer Products     | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Electricity           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Hearth                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Landscaping           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Mobile                | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Natural Gas           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |
| Water Indoor          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 20.00    | 15.09     | 15.32     | 19.96 | 19.70 | 15.94 |
| Water Outdoor         | 0.00 | 0.00 | 0.00 | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00  | 0.00  | 0.00  |

**Operational Mobile Mitigation**

Project Setting:

| Mitigation | Category | Measure                           | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-----------------------------------|-------------|---------------|---------------|---------------|
| No         | Land Use | Increase Density                  | 0.00        |               |               |               |
| No         | Land Use | Increase Diversity                | 0.08        | 0.28          |               |               |
| No         | Land Use | Improve Walkability Design        | 0.00        |               |               |               |
| No         | Land Use | Improve Destination Accessibility | 0.00        |               |               |               |
| No         | Land Use | Increase Transit Accessibility    | 0.25        |               |               |               |

|    |                           |                                                        |      |  |      |
|----|---------------------------|--------------------------------------------------------|------|--|------|
| No | Land Use                  | Integrate Below Market Rate Housing                    | 0.00 |  |      |
|    | Land Use                  | Land Use SubTotal                                      | 0.00 |  |      |
| No | Neighborhood Enhancements | Improve Pedestrian Network                             |      |  |      |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures                       |      |  |      |
| No | Neighborhood Enhancements | Implement NEV Network                                  | 0.00 |  |      |
|    | Neighborhood Enhancements | Neighborhood Enhancements Subtotal                     | 0.00 |  |      |
| No | Parking Policy Pricing    | Limit Parking Supply                                   | 0.00 |  |      |
| No | Parking Policy Pricing    | Unbundle Parking Costs                                 | 0.00 |  |      |
| No | Parking Policy Pricing    | On-street Market Pricing                               | 0.00 |  |      |
|    | Parking Policy Pricing    | Parking Policy Pricing Subtotal                        | 0.00 |  |      |
| No | Transit Improvements      | Provide BRT System                                     | 0.00 |  |      |
| No | Transit Improvements      | Expand Transit Network                                 | 0.00 |  |      |
| No | Transit Improvements      | Increase Transit Frequency                             | 0.00 |  |      |
|    | Transit Improvements      | Transit Improvements Subtotal                          | 0.00 |  |      |
|    |                           | Land Use and Site Enhancement Subtotal                 | 0.00 |  |      |
| No | Commute                   | Implement Trip Reduction Program                       |      |  |      |
| No | Commute                   | Transit Subsidy                                        |      |  |      |
| No | Commute                   | Implement Employee Parking "Cash Out"                  |      |  |      |
| No | Commute                   | Workplace Parking Charge                               |      |  |      |
| No | Commute                   | Encourage Telecommuting and Alternative Work Schedules | 0.00 |  |      |
| No | Commute                   | Market Commute Trip Reduction Option                   | 0.00 |  |      |
| No | Commute                   | Employee Vanpool/Shuttle                               | 0.00 |  | 2.00 |
| No | Commute                   | Provide Ride Sharing Program                           |      |  |      |
|    | Commute                   | Commute Subtotal                                       | 0.00 |  |      |
| No | School Trip               | Implement School Bus Program                           | 0.00 |  |      |
|    |                           | Total VMT Reduction                                    | 0.00 |  |      |

## Area Mitigation

| Measure Implemented | Mitigation Measure                           | Input Value |
|---------------------|----------------------------------------------|-------------|
| No                  | Only Natural Gas Hearth                      |             |
| No                  | No Hearth                                    |             |
| No                  | Use Low VOC Cleaning Supplies                |             |
| No                  | Use Low VOC Paint (Residential Interior)     | 50.00       |
| No                  | Use Low VOC Paint (Residential Exterior)     | 50.00       |
| No                  | Use Low VOC Paint (Non-residential Interior) | 100.00      |
| No                  | Use Low VOC Paint (Non-residential Exterior) | 100.00      |
| No                  | Use Low VOC Paint (Parking)                  | 100.00      |
| No                  | % Electric Lawnmower                         |             |
| No                  | % Electric Leafblower                        |             |
| No                  | % Electric Chainsaw                          |             |

## Energy Mitigation Measures

| Measure Implemented | Mitigation Measure               | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------|---------------|---------------|
| No                  | Exceed Title 24                  |               |               |
| No                  | Install High Efficiency Lighting |               |               |
| No                  | On-site Renewable                |               |               |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher    |                  | 30.00         |
| DishWasher     |                  | 15.00         |
| Fan            |                  | 50.00         |
| Refrigerator   |                  | 15.00         |

### Water Mitigation Measures

| Measure Implemented | Mitigation Measure                     | Input Value 1 | Input Value 2 |
|---------------------|----------------------------------------|---------------|---------------|
| No                  | Apply Water Conservation on Strategy   | 0.00          | 0.00          |
| No                  | Use Reclaimed Water                    | 0.00          | 0.00          |
| No                  | Use Grey Water                         | 0.00          |               |
| Yes                 | Install low-flow bathroom faucet       | 32.00         |               |
| Yes                 | Install low-flow Kitchen faucet        | 18.00         |               |
| Yes                 | Install low-flow Toilet                | 20.00         |               |
| Yes                 | Install low-flow Shower                | 20.00         |               |
| No                  | Turf Reduction                         | 0.00          |               |
| Yes                 | Use Water Efficient Irrigation Systems | 6.10          |               |
| No                  | Water Efficient Landscape              | 0.00          | 0.00          |

### Solid Waste Mitigation

| Mitigation Measures                                                                | Input Value |
|------------------------------------------------------------------------------------|-------------|
| Institute Recycling and Composting Services<br>Percent Reduction in Waste Disposed |             |

## Construction - Orange County, Annual

## Construction

### Orange County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2024  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Off-road Equipment -

| Table Name              | Column Name                       | Default Value | New Value  |
|-------------------------|-----------------------------------|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,750.00      | 2,813.00   |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,250.00     | 9,000.00   |
| tblArchitecturalCoating | ConstArea_Residential_Exterior    | 297,423.00    | 223,067.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior    | 892,270.00    | 713,816.00 |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 9          |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed      | 0             | 15         |
| tblConstructionPhase    | NumDays                           | 20.00         | 67.00      |
| tblConstructionPhase    | NumDays                           | 230.00        | 768.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 17.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 9.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 10.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 209.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 2.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 11.00      |
| tblConstructionPhase    | NumDays                           | 10.00         | 1.00       |
| tblGrading              | MaterialExported                  | 0.00          | 7,542.00   |
| tblGrading              | MaterialExported                  | 0.00          | 7,000.00   |
| tblLandUse              | LandUseSquareFeet                 | 278,340.00    | 278,337.00 |
| tblLandUse              | LandUseSquareFeet                 | 14,374.80     | 0.00       |

|                     |                   |            |            |
|---------------------|-------------------|------------|------------|
| tblLandUse          | LandUseSquareFeet | 21,780.00  | 0.00       |
| tblLandUse          | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse          | LotAcreage        | 6.39       | 1.06       |
| tblLandUse          | LotAcreage        | 0.05       | 0.00       |
| tblLandUse          | LotAcreage        | 9.21       | 3.74       |
| tblLandUse          | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment | HorsePower        | 231.00     | 110.00     |
| tblOffRoadEquipment | HorsePower        | 231.00     | 93.00      |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 89.00      | 173.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 130.00     | 173.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 407.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 260.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |

|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 187.00 | 238.00 |
| tblOffRoadEquipment | HorsePower                 | 100.00 | 238.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 65.00  | 75.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 127.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |



|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00   | 2.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 692.00 | 875.00   |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 13.00  | 34.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 372.00 | 120.00   |
| tblTripsAndVMT      | WorkerTripNumber           | 15.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 5.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 10.00  | 16.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 8.00   | 12.00    |

|                |                  |       |       |
|----------------|------------------|-------|-------|
| tblTripsAndVMT | WorkerTripNumber | 3.00  | 16.00 |
| tblTripsAndVMT | WorkerTripNumber | 74.00 | 24.00 |
| tblTripsAndVMT | WorkerTripNumber | 0.00  | 8.00  |
| tblTripsAndVMT | WorkerTripNumber | 8.00  | 18.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 16.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00  | 6.00  |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|                | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year           | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| 2019           | 0.0855        | 1.2282        | 0.6830        | 2.2700e-003   | 0.1767        | 0.0344        | 0.2111        | 0.0342         | 0.0317        | 0.0659        | 0.0000        | 217.3449          | 217.3449          | 0.0418        | 0.0000        | 218.3886          |
| 2020           | 0.5102        | 5.6131        | 4.0526        | 0.0119        | 0.2982        | 0.2141        | 0.5123        | 0.0809         | 0.1973        | 0.2782        | 0.0000        | 1,089.2544        | 1,089.2544        | 0.2193        | 0.0000        | 1,094.7379        |
| 2021           | 0.3158        | 3.3992        | 2.4950        | 8.1700e-003   | 0.2418        | 0.1233        | 0.3650        | 0.0658         | 0.1135        | 0.1793        | 0.0000        | 751.6230          | 751.6230          | 0.1348        | 0.0000        | 754.9931          |
| 2022           | 1.1060        | 3.1768        | 2.4811        | 8.1700e-003   | 0.2470        | 0.1103        | 0.3573        | 0.0672         | 0.1017        | 0.1689        | 0.0000        | 751.8148          | 751.8148          | 0.1338        | 0.0000        | 755.1600          |
| 2023           | 0.3674        | 0.2225        | 0.2061        | 6.6000e-004   | 0.0212        | 8.2700e-003   | 0.0294        | 5.7400e-003    | 7.6700e-003   | 0.0134        | 0.0000        | 60.5639           | 60.5639           | 0.0103        | 0.0000        | 60.8217           |
| <b>Maximum</b> | <b>1.1060</b> | <b>5.6131</b> | <b>4.0526</b> | <b>0.0119</b> | <b>0.2982</b> | <b>0.2141</b> | <b>0.5123</b> | <b>0.0809</b>  | <b>0.1973</b> | <b>0.2782</b> | <b>0.0000</b> | <b>1,089.2544</b> | <b>1,089.2544</b> | <b>0.2193</b> | <b>0.0000</b> | <b>1,094.7379</b> |

## Mitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| 2019    | 0.0855  | 1.2282 | 0.6830 | 2.2700e-003 | 0.0919        | 0.0344       | 0.1263     | 0.0192         | 0.0317        | 0.0509      | 0.0000   | 217.3448   | 217.3448   | 0.0418 | 0.0000 | 218.3885   |
| 2020    | 0.5102  | 5.6131 | 4.0526 | 0.0119      | 0.2722        | 0.2141       | 0.4863     | 0.0743         | 0.1973        | 0.2717      | 0.0000   | 1,089.2537 | 1,089.2537 | 0.2193 | 0.0000 | 1,094.7372 |
| 2021    | 0.3158  | 3.3992 | 2.4950 | 8.1700e-003 | 0.2239        | 0.1233       | 0.3472     | 0.0614         | 0.1135        | 0.1749      | 0.0000   | 751.6226   | 751.6226   | 0.1348 | 0.0000 | 754.9927   |
| 2022    | 1.1060  | 3.1768 | 2.4811 | 8.1700e-003 | 0.2287        | 0.1103       | 0.3390     | 0.0627         | 0.1017        | 0.1644      | 0.0000   | 751.8144   | 751.8144   | 0.1338 | 0.0000 | 755.1596   |
| 2023    | 0.3674  | 0.2225 | 0.2061 | 6.6000e-004 | 0.0196        | 8.2700e-003  | 0.0279     | 5.3500e-003    | 7.6700e-003   | 0.0130      | 0.0000   | 60.5638    | 60.5638    | 0.0103 | 0.0000 | 60.8216    |
| Maximum | 1.1060  | 5.6131 | 4.0526 | 0.0119      | 0.2722        | 0.2141       | 0.4863     | 0.0743         | 0.1973        | 0.2717      | 0.0000   | 1,089.2537 | 1,089.2537 | 0.2193 | 0.0000 | 1,094.7372 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 15.08         | 0.00         | 10.07      | 12.16          | 0.00          | 4.37        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 5       | 10-1-2019  | 12-31-2019 | 1.2593                                       | 1.2593                                     |
| 6       | 1-1-2020   | 3-31-2020  | 1.6434                                       | 1.6434                                     |
| 7       | 4-1-2020   | 6-30-2020  | 1.5069                                       | 1.5069                                     |
| 8       | 7-1-2020   | 9-30-2020  | 1.4977                                       | 1.4977                                     |
| 9       | 10-1-2020  | 12-31-2020 | 1.3757                                       | 1.3757                                     |
| 10      | 1-1-2021   | 3-31-2021  | 0.9120                                       | 0.9120                                     |
| 11      | 4-1-2021   | 6-30-2021  | 0.9197                                       | 0.9197                                     |
| 12      | 7-1-2021   | 9-30-2021  | 0.9298                                       | 0.9298                                     |

|    |           |            |        |        |
|----|-----------|------------|--------|--------|
| 13 | 10-1-2021 | 12-31-2021 | 0.9323 | 0.9323 |
| 14 | 1-1-2022  | 3-31-2022  | 0.8462 | 0.8462 |
| 15 | 4-1-2022  | 6-30-2022  | 0.8535 | 0.8535 |
| 16 | 7-1-2022  | 9-30-2022  | 0.8629 | 0.8629 |
| 17 | 10-1-2022 | 12-31-2022 | 1.7170 | 1.7170 |
| 18 | 1-1-2023  | 3-31-2023  | 0.5685 | 0.5685 |
|    |           | Highest    | 1.7170 | 1.7170 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name                                          | Phase Type            | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------------------------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition                                 | Demolition            | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul                           | Demolition            | 12/5/2019  | 12/27/2019 | 5             | 17       |                   |
| 3            | Asphalt Demolition                                  | Demolition            | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul                            | Demolition            | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 5            | Site Preparation                                    | Site Preparation      | 12/26/2019 | 12/26/2019 | 5             | 1        |                   |
| 6            | Rough Grading                                       | Grading               | 12/29/2019 | 1/1/2020   | 5             | 3        |                   |
| 7            | Rough Grading Soil Haul                             | Grading               | 1/1/2020   | 1/3/2020   | 5             | 3        |                   |
| 8            | Fine Grading                                        | Grading               | 1/1/2020   | 1/13/2020  | 5             | 9        |                   |
| 9            | Parking Structure<br>Excavation/Shoring/Hauling     | Grading               | 1/5/2020   | 1/17/2020  | 5             | 10       |                   |
| 10           | Wet Utility Installation                            | Trenching             | 1/9/2020   | 3/5/2020   | 5             | 41       |                   |
| 11           | Multi-Use Structure                                 | Building Construction | 2/19/2020  | 1/27/2023  | 5             | 768      |                   |
| 12           | Structural Concrete                                 | Paving                | 2/19/2020  | 12/7/2020  | 5             | 209      |                   |
| 13           | Dry Utility Installation                            | Trenching             | 3/2/2020   | 3/13/2020  | 5             | 10       |                   |
| 14           | Street Improvements - Balancing<br>/ Aggregate Base | Paving                | 3/16/2020  | 3/20/2020  | 5             | 5        |                   |
| 15           | Street Improvements - Curb &<br>Gutter              | Paving                | 3/23/2020  | 3/27/2020  | 5             | 5        |                   |

|    |                                         |                       |            |           |   |    |
|----|-----------------------------------------|-----------------------|------------|-----------|---|----|
| 16 | Asphalt Paving                          | Paving                | 4/1/2020   | 4/2/2020  | 5 | 2  |
| 17 | Street Improvements - Concrete Flatwork | Paving                | 4/5/2020   | 4/20/2020 | 5 | 11 |
| 18 | Architectural Coating                   | Architectural Coating | 10/27/2022 | 1/27/2023 | 5 | 67 |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.44**

**Residential Indoor: 713,816; Residential Outdoor: 223,067; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 2,813; Striped**

**OffRoad Equipment**

| Phase Name                | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition       | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition       | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition       | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition       | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition       | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |
| Building Demo Debris Haul | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demo Debris Haul | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Building Demo Debris Haul | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Asphalt Demolition        | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Asphalt Demolition        | Excavators                | 0      | 8.00        | 158         | 0.38        |
| Asphalt Demolition        | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Asphalt Demo Debris Haul  | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Asphalt Demo Debris Haul  | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Asphalt Demo Debris Haul  | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Site Preparation          | Rubber Tired Dozers       | 1      | 8.00        | 365         | 0.40        |
| Site Preparation          | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |

|                            |                           |   |      |     |      |
|----------------------------|---------------------------|---|------|-----|------|
| Rough Grading              | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Rough Grading              | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Rough Grading              | Rubber Tired Dozers       | 1 | 8.00 | 257 | 0.40 |
| Rough Grading              | Rubber Tired Dozers       | 1 | 8.00 | 562 | 0.40 |
| Rough Grading              | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Rough Grading              | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Rough Grading Soil Haul    | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Rough Grading Soil Haul    | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Rough Grading Soil Haul    | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading Soil Haul    | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Fine Grading               | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Fine Grading               | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Fine Grading               | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Fine Grading               | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Parking Structure          | Bore/Drill Rigs           | 1 | 8.00 | 221 | 0.50 |
| Excavation/Shoring/Hauling | Cranes                    | 1 | 8.00 | 231 | 0.29 |
| Excavation/Shoring/Hauling | Excavators                | 1 | 8.00 | 238 | 0.38 |
| Excavation/Shoring/Hauling | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Excavation/Shoring/Hauling | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Excavation/Shoring/Hauling | Tractors/Loaders/Backhoes | 1 | 8.00 | 407 | 0.37 |
| Wet Utility Installation   | Excavators                | 2 | 8.00 | 300 | 0.38 |
| Wet Utility Installation   | Tractors/Loaders/Backhoes | 2 | 8.00 | 230 | 0.37 |
| Wet Utility Installation   | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Multi-Use Structure        | Cranes                    | 1 | 8.00 | 110 | 0.29 |
| Multi-Use Structure        | Cranes                    | 2 | 8.00 | 93  | 0.29 |
| Multi-Use Structure        | Forklifts                 | 2 | 8.00 | 173 | 0.20 |
| Multi-Use Structure        | Generator Sets            | 0 | 8.00 | 84  | 0.74 |

|                                                     |                           |   |      |     |      |
|-----------------------------------------------------|---------------------------|---|------|-----|------|
| Multi-Use Structure                                 | Rough Terrain Forklifts   | 2 | 8.00 | 238 | 0.40 |
| Multi-Use Structure                                 | Tractors/Loaders/Backhoes | 0 | 7.00 | 97  | 0.37 |
| Multi-Use Structure                                 | Welders                   | 0 | 8.00 | 46  | 0.45 |
| Structural Concrete                                 | Cement and Mortar Mixers  | 1 | 8.00 | 9   | 0.56 |
| Structural Concrete                                 | Cranes                    | 1 | 8.00 | 231 | 0.29 |
| Structural Concrete                                 | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Structural Concrete                                 | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Structural Concrete                                 | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Structural Concrete                                 | Rough Terrain Forklifts   | 2 | 8.00 | 100 | 0.40 |
| Structural Concrete                                 | Tractors/Loaders/Backhoes | 2 | 8.00 | 93  | 0.37 |
| Dry Utility Installation                            | Tractors/Loaders/Backhoes | 1 | 8.00 | 127 | 0.37 |
| Dry Utility Installation                            | Tractors/Loaders/Backhoes | 1 | 8.00 | 230 | 0.37 |
| Street Improvements - Balancing /<br>Aggregate Base | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Street Improvements - Balancing /<br>Aggregate Base | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Balancing /<br>Aggregate Base | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Balancing /<br>Aggregate Base | Rollers                   | 1 | 8.00 | 110 | 0.38 |
| Street Improvements - Balancing /<br>Aggregate Base | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Street Improvements - Balancing /<br>Aggregate Base | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Street Improvements - Curb & Gutter                 | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Curb & Gutter                 | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Curb & Gutter                 | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Asphalt Paving                                      | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Asphalt Paving                                      | Pavers                    | 1 | 8.00 | 173 | 0.42 |
| Asphalt Paving                                      | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Asphalt Paving                                      | Rollers                   | 1 | 8.00 | 110 | 0.38 |
| Street Improvements - Concrete<br>Flatwork          | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Concrete<br>Flatwork          | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |

|                                         |                           |   |      |    |      |
|-----------------------------------------|---------------------------|---|------|----|------|
| Street Improvements - Concrete Flatwork | Rollers                   | 0 | 8.00 | 80 | 0.38 |
| Street Improvements - Concrete Flatwork | Tractors/Loaders/Backhoes | 1 | 8.00 | 93 | 0.37 |
| Architectural Coating                   | Air Compressors           | 1 | 6.00 | 78 | 0.48 |

### Trips and VMT

| Phase Name                                     | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|------------------------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition                            | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul                      | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition                             | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul                       | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation                               | 3                       | 18.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading                                  | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul                        | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Fine Grading                                   | 1                       | 6.00               | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Parking Structure                              | 4                       | 20.00              | 2.00               | 875.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Excavation/Shoring/Ha Wet Utility Installation | 5                       | 34.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Multi-Use Structure                            | 7                       | 120.00             | 85.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Structural Concrete                            | 6                       | 40.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Dry Utility Installation                       | 2                       | 18.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Street Improvements - Balancing / Aggregate    | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Street Improvements - Curb & Gutter            | 0                       | 18.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Paving                                 | 3                       | 12.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Street Improvements - Concrete Flatwork        | 1                       | 16.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating                          | 1                       | 24.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0619        | 0.6745        | 0.4968        | 8.6000e-004        |               | 0.0287        | 0.0287        |                | 0.0264        | 0.0264        | 0.0000        | 77.5891        | 77.5891        | 0.0246        | 0.0000        | 78.2029        |
| <b>Total</b>  | <b>0.0619</b> | <b>0.6745</b> | <b>0.4968</b> | <b>8.6000e-004</b> | <b>0.0000</b> | <b>0.0287</b> | <b>0.0287</b> | <b>0.0000</b>  | <b>0.0264</b> | <b>0.0264</b> | <b>0.0000</b> | <b>77.5891</b> | <b>77.5891</b> | <b>0.0246</b> | <b>0.0000</b> | <b>78.2029</b> |

#### Unmitigated Construction Off-Site

|          | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|----------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Hauling  | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

|              |                    |                    |               |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Vendor       | 1.5000e-004        | 4.6300e-003        | 1.2600e-003   | 1.0000e-005        | 2.5000e-004        | 3.0000e-005        | 2.8000e-004        | 7.0000e-005        | 3.0000e-005        | 1.0000e-004        | 0.0000        | 0.9805        | 0.9805        | 9.0000e-005        | 0.0000        | 0.9826        |
| Worker       | 1.6700e-003        | 1.2200e-003        | 0.0135        | 4.0000e-005        | 4.3900e-003        | 3.0000e-005        | 4.4200e-003        | 1.1700e-003        | 3.0000e-005        | 1.1900e-003        | 0.0000        | 3.9265        | 3.9265        | 1.0000e-004        | 0.0000        | 3.9289        |
| <b>Total</b> | <b>1.8200e-003</b> | <b>5.8500e-003</b> | <b>0.0148</b> | <b>5.0000e-005</b> | <b>4.6400e-003</b> | <b>6.0000e-005</b> | <b>4.7000e-003</b> | <b>1.2400e-003</b> | <b>6.0000e-005</b> | <b>1.2900e-003</b> | <b>0.0000</b> | <b>4.9069</b> | <b>4.9069</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>4.9115</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0619        | 0.6745        | 0.4968        | 8.6000e-004        |               | 0.0287        | 0.0287        |                | 0.0264        | 0.0264        | 0.0000        | 77.5891        | 77.5891        | 0.0246        | 0.0000        | 78.2028        |
| <b>Total</b>  | <b>0.0619</b> | <b>0.6745</b> | <b>0.4968</b> | <b>8.6000e-004</b> | <b>0.0000</b> | <b>0.0287</b> | <b>0.0287</b> | <b>0.0000</b>  | <b>0.0264</b> | <b>0.0264</b> | <b>0.0000</b> | <b>77.5891</b> | <b>77.5891</b> | <b>0.0246</b> | <b>0.0000</b> | <b>78.2028</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.5000e-004        | 4.6300e-003        | 1.2600e-003   | 1.0000e-005        | 2.4000e-004        | 3.0000e-005        | 2.7000e-004        | 7.0000e-005        | 3.0000e-005        | 1.0000e-004        | 0.0000        | 0.9805        | 0.9805        | 9.0000e-005        | 0.0000        | 0.9826        |
| Worker       | 1.6700e-003        | 1.2200e-003        | 0.0135        | 4.0000e-005        | 4.0500e-003        | 3.0000e-005        | 4.0800e-003        | 1.0800e-003        | 3.0000e-005        | 1.1100e-003        | 0.0000        | 3.9265        | 3.9265        | 1.0000e-004        | 0.0000        | 3.9289        |
| <b>Total</b> | <b>1.8200e-003</b> | <b>5.8500e-003</b> | <b>0.0148</b> | <b>5.0000e-005</b> | <b>4.2900e-003</b> | <b>6.0000e-005</b> | <b>4.3500e-003</b> | <b>1.1500e-003</b> | <b>6.0000e-005</b> | <b>1.2100e-003</b> | <b>0.0000</b> | <b>4.9069</b> | <b>4.9069</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>4.9115</b> |

### 3.3 Building Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                |                    |               | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0899        | 0.0000             | 0.0899        | 0.0136         | 0.0000             | 0.0136        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7700e-003        | 0.0304        | 0.0190        | 8.0000e-005        |               | 9.9000e-004        | 9.9000e-004   |                | 9.1000e-004        | 9.1000e-004   | 0.0000        | 7.4611        | 7.4611        | 2.3600e-003        | 0.0000        | 7.5201        |
| <b>Total</b>  | <b>2.7700e-003</b> | <b>0.0304</b> | <b>0.0190</b> | <b>8.0000e-005</b> | <b>0.0899</b> | <b>9.9000e-004</b> | <b>0.0909</b> | <b>0.0136</b>  | <b>9.1000e-004</b> | <b>0.0145</b> | <b>0.0000</b> | <b>7.4611</b> | <b>7.4611</b> | <b>2.3600e-003</b> | <b>0.0000</b> | <b>7.5201</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0122        | 0.4305        | 0.1059        | 1.1600e-003        | 0.0269        | 1.7600e-003        | 0.0286        | 7.3600e-003        | 1.6800e-003        | 9.0400e-003        | 0.0000        | 117.3103        | 117.3103        | 0.0120        | 0.0000        | 117.6111        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 1.1000e-004   | 8.0000e-005   | 8.6000e-004   | 0.0000             | 2.8000e-004   | 0.0000             | 2.8000e-004   | 7.0000e-005        | 0.0000             | 8.0000e-005        | 0.0000        | 0.2503          | 0.2503          | 1.0000e-005   | 0.0000        | 0.2505          |
| <b>Total</b> | <b>0.0123</b> | <b>0.4306</b> | <b>0.1067</b> | <b>1.1600e-003</b> | <b>0.0271</b> | <b>1.7600e-003</b> | <b>0.0289</b> | <b>7.4300e-003</b> | <b>1.6800e-003</b> | <b>9.1200e-003</b> | <b>0.0000</b> | <b>117.5606</b> | <b>117.5606</b> | <b>0.0120</b> | <b>0.0000</b> | <b>117.8615</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0384        | 0.0000             | 0.0384        | 5.8200e-003        | 0.0000             | 5.8200e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7700e-003        | 0.0304        | 0.0190        | 8.0000e-005        |               | 9.9000e-004        | 9.9000e-004   |                    | 9.1000e-004        | 9.1000e-004        | 0.0000        | 7.4611        | 7.4611        | 2.3600e-003        | 0.0000        | 7.5201        |
| <b>Total</b>  | <b>2.7700e-003</b> | <b>0.0304</b> | <b>0.0190</b> | <b>8.0000e-005</b> | <b>0.0384</b> | <b>9.9000e-004</b> | <b>0.0394</b> | <b>5.8200e-003</b> | <b>9.1000e-004</b> | <b>6.7300e-003</b> | <b>0.0000</b> | <b>7.4611</b> | <b>7.4611</b> | <b>2.3600e-003</b> | <b>0.0000</b> | <b>7.5201</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0122        | 0.4305        | 0.1059        | 1.1600e-003        | 0.0250        | 1.7600e-003        | 0.0268        | 6.9100e-003        | 1.6800e-003        | 8.5900e-003        | 0.0000        | 117.3103        | 117.3103        | 0.0120        | 0.0000        | 117.6111        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 1.1000e-004   | 8.0000e-005   | 8.6000e-004   | 0.0000             | 2.6000e-004   | 0.0000             | 2.6000e-004   | 7.0000e-005        | 0.0000             | 7.0000e-005        | 0.0000        | 0.2503          | 0.2503          | 1.0000e-005   | 0.0000        | 0.2505          |
| <b>Total</b> | <b>0.0123</b> | <b>0.4306</b> | <b>0.1067</b> | <b>1.1600e-003</b> | <b>0.0253</b> | <b>1.7600e-003</b> | <b>0.0270</b> | <b>6.9800e-003</b> | <b>1.6800e-003</b> | <b>8.6600e-003</b> | <b>0.0000</b> | <b>117.5606</b> | <b>117.5606</b> | <b>0.0120</b> | <b>0.0000</b> | <b>117.8615</b> |

### 3.4 Asphalt Demolition - 2019

#### Unmitigated Construction On-Site

|          | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|----------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| Off-Road | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Total    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

#### Unmitigated Construction Off-Site

|          | ROG         | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|----------|-------------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Category | tons/yr     |             |             |        |               |              |             |                |               |             | MT/yr    |           |           |        |        |        |
| Hauling  | 0.0000      | 0.0000      | 0.0000      | 0.0000 | 0.0000        | 0.0000       | 0.0000      | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Vendor   | 0.0000      | 0.0000      | 0.0000      | 0.0000 | 0.0000        | 0.0000       | 0.0000      | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Worker   | 5.0000e-005 | 4.0000e-005 | 4.1000e-004 | 0.0000 | 1.3000e-004   | 0.0000       | 1.3000e-004 | 3.0000e-005    | 0.0000        | 4.0000e-005 | 0.0000   | 0.1178    | 0.1178    | 0.0000 | 0.0000 | 0.1179 |
| Total    | 5.0000e-005 | 4.0000e-005 | 4.1000e-004 | 0.0000 | 1.3000e-004   | 0.0000       | 1.3000e-004 | 3.0000e-005    | 0.0000        | 4.0000e-005 | 0.0000   | 0.1178    | 0.1178    | 0.0000 | 0.0000 | 0.1179 |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 5.0000e-005        | 4.0000e-005        | 4.1000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.1178        | 0.1178        | 0.0000        | 0.0000        | 0.1179        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>4.0000e-005</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1178</b> | <b>0.1178</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1179</b> |

### 3.5 Asphalt Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0428        | 0.0000             | 0.0428        | 6.4800e-003        | 0.0000             | 6.4800e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.9000e-004        | 5.3700e-003        | 3.3600e-003        | 1.0000e-005        |               | 1.7000e-004        | 1.7000e-004   |                    | 1.6000e-004        | 1.6000e-004        | 0.0000        | 1.3167        | 1.3167        | 4.2000e-004        | 0.0000        | 1.3271        |
| <b>Total</b>  | <b>4.9000e-004</b> | <b>5.3700e-003</b> | <b>3.3600e-003</b> | <b>1.0000e-005</b> | <b>0.0428</b> | <b>1.7000e-004</b> | <b>0.0430</b> | <b>6.4800e-003</b> | <b>1.6000e-004</b> | <b>6.6400e-003</b> | <b>0.0000</b> | <b>1.3167</b> | <b>1.3167</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.3271</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.6000e-004        | 0.0110        | 2.2500e-003        | 2.0000e-005        | 3.1000e-004        | 3.0000e-005        | 3.3000e-004        | 8.0000e-005        | 2.0000e-005        | 1.1000e-004        | 0.0000        | 1.9053        | 1.9053        | 2.5000e-004        | 0.0000        | 1.9115        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.5000e-004        | 0.0000             | 5.0000e-005        | 0.0000             | 5.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0442        | 0.0442        | 0.0000             | 0.0000        | 0.0442        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>0.0110</b> | <b>2.4000e-003</b> | <b>2.0000e-005</b> | <b>3.6000e-004</b> | <b>3.0000e-005</b> | <b>3.8000e-004</b> | <b>9.0000e-005</b> | <b>2.0000e-005</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.9495</b> | <b>1.9495</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>1.9557</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0183        | 0.0000             | 0.0183        | 2.7700e-003        | 0.0000             | 2.7700e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.9000e-004        | 5.3700e-003        | 3.3600e-003        | 1.0000e-005        |               | 1.7000e-004        | 1.7000e-004   |                    | 1.6000e-004        | 1.6000e-004        | 0.0000        | 1.3167        | 1.3167        | 4.2000e-004        | 0.0000        | 1.3271        |
| <b>Total</b>  | <b>4.9000e-004</b> | <b>5.3700e-003</b> | <b>3.3600e-003</b> | <b>1.0000e-005</b> | <b>0.0183</b> | <b>1.7000e-004</b> | <b>0.0185</b> | <b>2.7700e-003</b> | <b>1.6000e-004</b> | <b>2.9300e-003</b> | <b>0.0000</b> | <b>1.3167</b> | <b>1.3167</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.3271</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.6000e-004        | 0.0110        | 2.2500e-003        | 2.0000e-005        | 2.9000e-004        | 3.0000e-005        | 3.1000e-004        | 8.0000e-005        | 2.0000e-005        | 1.0000e-004        | 0.0000        | 1.9053        | 1.9053        | 2.5000e-004        | 0.0000        | 1.9115        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.5000e-004        | 0.0000             | 5.0000e-005        | 0.0000             | 5.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0442        | 0.0442        | 0.0000             | 0.0000        | 0.0442        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>0.0110</b> | <b>2.4000e-003</b> | <b>2.0000e-005</b> | <b>3.4000e-004</b> | <b>3.0000e-005</b> | <b>3.6000e-004</b> | <b>9.0000e-005</b> | <b>2.0000e-005</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.9495</b> | <b>1.9495</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>1.9557</b> |

### 3.6 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |                    |                    | 3.0100e-003        | 0.0000             | 3.0100e-003        | 1.6600e-003        | 0.0000             | 1.6600e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.0900e-003        | 0.0119        | 8.4600e-003        | 1.0000e-005        |                    | 5.0000e-004        | 5.0000e-004        |                    | 4.6000e-004        | 4.6000e-004        | 0.0000        | 1.3102        | 1.3102        | 4.1000e-004        | 0.0000        | 1.3205        |
| <b>Total</b>  | <b>1.0900e-003</b> | <b>0.0119</b> | <b>8.4600e-003</b> | <b>1.0000e-005</b> | <b>3.0100e-003</b> | <b>5.0000e-004</b> | <b>3.5100e-003</b> | <b>1.6600e-003</b> | <b>4.6000e-004</b> | <b>2.1200e-003</b> | <b>0.0000</b> | <b>1.3102</b> | <b>1.3102</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.3205</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 1.2000e-004        | 3.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0245        | 0.0245        | 0.0000        | 0.0000        | 0.0246        |
| Worker       | 4.0000e-005        | 3.0000e-005        | 3.0000e-004        | 0.0000        | 1.0000e-004        | 0.0000        | 1.0000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.0884        | 0.0884        | 0.0000        | 0.0000        | 0.0884        |
| <b>Total</b> | <b>4.0000e-005</b> | <b>1.5000e-004</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.1000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1129</b> | <b>0.1129</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1130</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |                    |                    | 1.2900e-003        | 0.0000             | 1.2900e-003        | 7.1000e-004        | 0.0000             | 7.1000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.0900e-003        | 0.0119        | 8.4600e-003        | 1.0000e-005        |                    | 5.0000e-004        | 5.0000e-004        |                    | 4.6000e-004        | 4.6000e-004        | 0.0000        | 1.3102        | 1.3102        | 4.1000e-004        | 0.0000        | 1.3205        |
| <b>Total</b>  | <b>1.0900e-003</b> | <b>0.0119</b> | <b>8.4600e-003</b> | <b>1.0000e-005</b> | <b>1.2900e-003</b> | <b>5.0000e-004</b> | <b>1.7900e-003</b> | <b>7.1000e-004</b> | <b>4.6000e-004</b> | <b>1.1700e-003</b> | <b>0.0000</b> | <b>1.3102</b> | <b>1.3102</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.3205</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 1.2000e-004        | 3.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0245        | 0.0245        | 0.0000        | 0.0000        | 0.0246        |
| Worker       | 4.0000e-005        | 3.0000e-005        | 3.0000e-004        | 0.0000        | 9.0000e-005        | 0.0000        | 9.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0884        | 0.0884        | 0.0000        | 0.0000        | 0.0884        |
| <b>Total</b> | <b>4.0000e-005</b> | <b>1.5000e-004</b> | <b>3.3000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.1129</b> | <b>0.1129</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1130</b> |

### 3.7 Rough Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 8.4100e-003        | 0.0000             | 8.4100e-003   | 3.5700e-003        | 0.0000             | 3.5700e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.6400e-003        | 0.0581        | 0.0302        | 5.0000e-005        |                    | 2.2100e-003        | 2.2100e-003   |                    | 2.0300e-003        | 2.0300e-003        | 0.0000        | 4.8141        | 4.8141        | 1.5200e-003        | 0.0000        | 4.8522        |
| <b>Total</b>  | <b>4.6400e-003</b> | <b>0.0581</b> | <b>0.0302</b> | <b>5.0000e-005</b> | <b>8.4100e-003</b> | <b>2.2100e-003</b> | <b>0.0106</b> | <b>3.5700e-003</b> | <b>2.0300e-003</b> | <b>5.6000e-003</b> | <b>0.0000</b> | <b>4.8141</b> | <b>4.8141</b> | <b>1.5200e-003</b> | <b>0.0000</b> | <b>4.8522</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 1.0000e-005        | 2.3000e-004        | 6.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 1.0000e-005        | 0.0000        | 0.0490        | 0.0490        | 0.0000        | 0.0000        | 0.0491        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 1.8000e-004        | 0.0000        | 1.8000e-004        | 5.0000e-005        | 0.0000        | 5.0000e-005        | 0.0000        | 0.1571        | 0.1571        | 0.0000        | 0.0000        | 0.1572        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>2.8000e-004</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>1.9000e-004</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.2061</b> | <b>0.2061</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.2063</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 3.5900e-003        | 0.0000             | 3.5900e-003        | 1.5300e-003        | 0.0000             | 1.5300e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.6400e-003        | 0.0581        | 0.0302        | 5.0000e-005        |                    | 2.2100e-003        | 2.2100e-003        |                    | 2.0300e-003        | 2.0300e-003        | 0.0000        | 4.8141        | 4.8141        | 1.5200e-003        | 0.0000        | 4.8522        |
| <b>Total</b>  | <b>4.6400e-003</b> | <b>0.0581</b> | <b>0.0302</b> | <b>5.0000e-005</b> | <b>3.5900e-003</b> | <b>2.2100e-003</b> | <b>5.8000e-003</b> | <b>1.5300e-003</b> | <b>2.0300e-003</b> | <b>3.5600e-003</b> | <b>0.0000</b> | <b>4.8141</b> | <b>4.8141</b> | <b>1.5200e-003</b> | <b>0.0000</b> | <b>4.8522</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 1.0000e-005        | 2.3000e-004        | 6.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0490        | 0.0490        | 0.0000        | 0.0000        | 0.0491        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 1.6000e-004        | 0.0000        | 1.6000e-004        | 4.0000e-005        | 0.0000        | 4.0000e-005        | 0.0000        | 0.1571        | 0.1571        | 0.0000        | 0.0000        | 0.1572        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>2.8000e-004</b> | <b>6.0000e-004</b> | <b>0.0000</b> | <b>1.7000e-004</b> | <b>0.0000</b> | <b>1.7000e-004</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.2061</b> | <b>0.2061</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.2063</b> |

### 3.7 Rough Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 5.4000e-003        | 0.0000             | 5.4000e-003        | 1.9100e-003        | 0.0000             | 1.9100e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.2400e-003        | 0.0278        | 0.0145        | 3.0000e-005        |                    | 1.0500e-003        | 1.0500e-003        |                    | 9.7000e-004        | 9.7000e-004        | 0.0000        | 2.3543        | 2.3543        | 7.6000e-004        | 0.0000        | 2.3733        |
| <b>Total</b>  | <b>2.2400e-003</b> | <b>0.0278</b> | <b>0.0145</b> | <b>3.0000e-005</b> | <b>5.4000e-003</b> | <b>1.0500e-003</b> | <b>6.4500e-003</b> | <b>1.9100e-003</b> | <b>9.7000e-004</b> | <b>2.8800e-003</b> | <b>0.0000</b> | <b>2.3543</b> | <b>2.3543</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>2.3733</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 1.1000e-004        | 3.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0243        | 0.0243        | 0.0000        | 0.0000        | 0.0244        |
| Worker       | 3.0000e-005        | 2.0000e-005        | 2.5000e-004        | 0.0000        | 9.0000e-005        | 0.0000        | 9.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0760        | 0.0760        | 0.0000        | 0.0000        | 0.0761        |
| <b>Total</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.1004</b> | <b>0.1004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1005</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 2.3100e-003        | 0.0000             | 2.3100e-003        | 8.2000e-004        | 0.0000             | 8.2000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.2400e-003        | 0.0278        | 0.0145        | 3.0000e-005        |                    | 1.0500e-003        | 1.0500e-003        |                    | 9.7000e-004        | 9.7000e-004        | 0.0000        | 2.3543        | 2.3543        | 7.6000e-004        | 0.0000        | 2.3733        |
| <b>Total</b>  | <b>2.2400e-003</b> | <b>0.0278</b> | <b>0.0145</b> | <b>3.0000e-005</b> | <b>2.3100e-003</b> | <b>1.0500e-003</b> | <b>3.3600e-003</b> | <b>8.2000e-004</b> | <b>9.7000e-004</b> | <b>1.7900e-003</b> | <b>0.0000</b> | <b>2.3543</b> | <b>2.3543</b> | <b>7.6000e-004</b> | <b>0.0000</b> | <b>2.3733</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 1.1000e-004        | 3.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0243        | 0.0243        | 0.0000        | 0.0000        | 0.0244        |
| Worker       | 3.0000e-005        | 2.0000e-005        | 2.5000e-004        | 0.0000        | 8.0000e-005        | 0.0000        | 8.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0760        | 0.0760        | 0.0000        | 0.0000        | 0.0761        |
| <b>Total</b> | <b>3.0000e-005</b> | <b>1.3000e-004</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>9.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.1004</b> | <b>0.1004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1005</b> |

### 3.8 Rough Grading Soil Haul - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.6000e-004        | 4.7400e-003        | 3.3200e-003        | 1.0000e-005        |               | 1.6000e-004        | 1.6000e-004        |                | 1.4000e-004        | 1.4000e-004        | 0.0000        | 1.2867        | 1.2867        | 4.2000e-004        | 0.0000        | 1.2971        |
| <b>Total</b>  | <b>4.6000e-004</b> | <b>4.7400e-003</b> | <b>3.3200e-003</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b>  | <b>1.4000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.2867</b> | <b>1.2867</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2971</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 6.1600e-003        | 0.2290        | 0.0574        | 6.1000e-004        | 0.0138        | 7.2000e-004        | 0.0146        | 3.7900e-003        | 6.9000e-004        | 4.4900e-003        | 0.0000        | 62.0562        | 62.0562        | 6.5400e-003        | 0.0000        | 62.2197        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.4000e-004   | 0.0000             | 5.0000e-005   | 0.0000             | 5.0000e-005   | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0428         | 0.0428         | 0.0000             | 0.0000        | 0.0428         |
| <b>Total</b> | <b>6.1800e-003</b> | <b>0.2290</b> | <b>0.0575</b> | <b>6.1000e-004</b> | <b>0.0139</b> | <b>7.2000e-004</b> | <b>0.0146</b> | <b>3.8000e-003</b> | <b>6.9000e-004</b> | <b>4.5000e-003</b> | <b>0.0000</b> | <b>62.0990</b> | <b>62.0990</b> | <b>6.5400e-003</b> | <b>0.0000</b> | <b>62.2625</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.6000e-004        | 4.7400e-003        | 3.3200e-003        | 1.0000e-005        |               | 1.6000e-004        | 1.6000e-004        |                | 1.4000e-004        | 1.4000e-004        | 0.0000        | 1.2867        | 1.2867        | 4.2000e-004        | 0.0000        | 1.2971        |
| <b>Total</b>  | <b>4.6000e-004</b> | <b>4.7400e-003</b> | <b>3.3200e-003</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.6000e-004</b> | <b>1.6000e-004</b> | <b>0.0000</b>  | <b>1.4000e-004</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.2867</b> | <b>1.2867</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2971</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 6.1600e-003        | 0.2290        | 0.0574        | 6.1000e-004        | 0.0129        | 7.2000e-004        | 0.0136        | 3.5600e-003        | 6.9000e-004        | 4.2500e-003        | 0.0000        | 62.0562        | 62.0562        | 6.5400e-003        | 0.0000        | 62.2197        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.4000e-004   | 0.0000             | 5.0000e-005   | 0.0000             | 5.0000e-005   | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0428         | 0.0428         | 0.0000             | 0.0000        | 0.0428         |
| <b>Total</b> | <b>6.1800e-003</b> | <b>0.2290</b> | <b>0.0575</b> | <b>6.1000e-004</b> | <b>0.0129</b> | <b>7.2000e-004</b> | <b>0.0137</b> | <b>3.5700e-003</b> | <b>6.9000e-004</b> | <b>4.2600e-003</b> | <b>0.0000</b> | <b>62.0990</b> | <b>62.0990</b> | <b>6.5400e-003</b> | <b>0.0000</b> | <b>62.2625</b> |

### 3.9 Fine Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 2.3900e-003        | 0.0000             | 2.3900e-003        | 2.6000e-004        | 0.0000             | 2.6000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7300e-003        | 0.0362        | 0.0104        | 4.0000e-005        |                    | 1.1600e-003        | 1.1600e-003        |                    | 1.0700e-003        | 1.0700e-003        | 0.0000        | 3.3394        | 3.3394        | 1.0800e-003        | 0.0000        | 3.3664        |
| <b>Total</b>  | <b>2.7300e-003</b> | <b>0.0362</b> | <b>0.0104</b> | <b>4.0000e-005</b> | <b>2.3900e-003</b> | <b>1.1600e-003</b> | <b>3.5500e-003</b> | <b>2.6000e-004</b> | <b>1.0700e-003</b> | <b>1.3300e-003</b> | <b>0.0000</b> | <b>3.3394</b> | <b>3.3394</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.3664</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 3.0000e-005        | 9.5000e-004        | 2.6000e-004        | 0.0000        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.2191        | 0.2191        | 2.0000e-005        | 0.0000        | 0.2195        |
| Worker       | 1.1000e-004        | 7.0000e-005        | 8.4000e-004        | 0.0000        | 3.0000e-004        | 0.0000        | 3.0000e-004        | 8.0000e-005        | 0.0000        | 8.0000e-005        | 0.0000        | 0.2565        | 0.2565        | 1.0000e-005        | 0.0000        | 0.2567        |
| <b>Total</b> | <b>1.4000e-004</b> | <b>1.0200e-003</b> | <b>1.1000e-003</b> | <b>0.0000</b> | <b>3.6000e-004</b> | <b>0.0000</b> | <b>3.6000e-004</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>0.4756</b> | <b>0.4756</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.4762</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 1.0200e-003        | 0.0000             | 1.0200e-003        | 1.1000e-004        | 0.0000             | 1.1000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.7300e-003        | 0.0362        | 0.0104        | 4.0000e-005        |                    | 1.1600e-003        | 1.1600e-003        |                    | 1.0700e-003        | 1.0700e-003        | 0.0000        | 3.3394        | 3.3394        | 1.0800e-003        | 0.0000        | 3.3664        |
| <b>Total</b>  | <b>2.7300e-003</b> | <b>0.0362</b> | <b>0.0104</b> | <b>4.0000e-005</b> | <b>1.0200e-003</b> | <b>1.1600e-003</b> | <b>2.1800e-003</b> | <b>1.1000e-004</b> | <b>1.0700e-003</b> | <b>1.1800e-003</b> | <b>0.0000</b> | <b>3.3394</b> | <b>3.3394</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.3664</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 3.0000e-005        | 9.5000e-004        | 2.6000e-004        | 0.0000        | 5.0000e-005        | 0.0000        | 6.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.2191        | 0.2191        | 2.0000e-005        | 0.0000        | 0.2195        |
| Worker       | 1.1000e-004        | 7.0000e-005        | 8.4000e-004        | 0.0000        | 2.7000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2565        | 0.2565        | 1.0000e-005        | 0.0000        | 0.2567        |
| <b>Total</b> | <b>1.4000e-004</b> | <b>1.0200e-003</b> | <b>1.1000e-003</b> | <b>0.0000</b> | <b>3.2000e-004</b> | <b>0.0000</b> | <b>3.4000e-004</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>0.4756</b> | <b>0.4756</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.4762</b> |

### 3.10 Parking Structure Excavation/Shoring/Hauling - 2020

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 7.6400e-003        | 0.0884        | 0.0479        | 1.8000e-004        |               | 3.0800e-003        | 3.0800e-003        |                | 2.8300e-003        | 2.8300e-003        | 0.0000        | 15.7167        | 15.7167        | 5.0800e-003        | 0.0000        | 15.8437        |
| <b>Total</b>  | <b>7.6400e-003</b> | <b>0.0884</b> | <b>0.0479</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>3.0800e-003</b> | <b>3.0800e-003</b> | <b>0.0000</b>  | <b>2.8300e-003</b> | <b>2.8300e-003</b> | <b>0.0000</b> | <b>15.7167</b> | <b>15.7167</b> | <b>5.0800e-003</b> | <b>0.0000</b> | <b>15.8437</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 3.3400e-003        | 0.1242        | 0.0311        | 3.3000e-004        | 7.5000e-003        | 3.9000e-004        | 7.8900e-003        | 2.0600e-003        | 3.8000e-004        | 2.4300e-003        | 0.0000        | 33.6426        | 33.6426        | 3.5500e-003        | 0.0000        | 33.7313        |
| Vendor       | 3.0000e-005        | 1.0600e-003   | 2.9000e-004   | 0.0000             | 6.0000e-005        | 1.0000e-005        | 7.0000e-005        | 2.0000e-005        | 1.0000e-005        | 2.0000e-005        | 0.0000        | 0.2434         | 0.2434         | 2.0000e-005        | 0.0000        | 0.2439         |
| Worker       | 3.9000e-004        | 2.7000e-004   | 3.1000e-003   | 1.0000e-005        | 1.1000e-003        | 1.0000e-005        | 1.1100e-003        | 2.9000e-004        | 1.0000e-005        | 3.0000e-004        | 0.0000        | 0.9502         | 0.9502         | 2.0000e-005        | 0.0000        | 0.9507         |
| <b>Total</b> | <b>3.7600e-003</b> | <b>0.1255</b> | <b>0.0345</b> | <b>3.4000e-004</b> | <b>8.6600e-003</b> | <b>4.1000e-004</b> | <b>9.0700e-003</b> | <b>2.3700e-003</b> | <b>4.0000e-004</b> | <b>2.7500e-003</b> | <b>0.0000</b> | <b>34.8362</b> | <b>34.8362</b> | <b>3.5900e-003</b> | <b>0.0000</b> | <b>34.9259</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 7.6400e-003        | 0.0884        | 0.0479        | 1.8000e-004        |               | 3.0800e-003        | 3.0800e-003        |                | 2.8300e-003        | 2.8300e-003        | 0.0000        | 15.7166        | 15.7166        | 5.0800e-003        | 0.0000        | 15.8437        |
| <b>Total</b>  | <b>7.6400e-003</b> | <b>0.0884</b> | <b>0.0479</b> | <b>1.8000e-004</b> | <b>0.0000</b> | <b>3.0800e-003</b> | <b>3.0800e-003</b> | <b>0.0000</b>  | <b>2.8300e-003</b> | <b>2.8300e-003</b> | <b>0.0000</b> | <b>15.7166</b> | <b>15.7166</b> | <b>5.0800e-003</b> | <b>0.0000</b> | <b>15.8437</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 3.3400e-003        | 0.1242        | 0.0311        | 3.3000e-004        | 6.9900e-003        | 3.9000e-004        | 7.3800e-003        | 1.9300e-003        | 3.8000e-004        | 2.3100e-003        | 0.0000        | 33.6426        | 33.6426        | 3.5500e-003        | 0.0000        | 33.7313        |
| Vendor       | 3.0000e-005        | 1.0600e-003   | 2.9000e-004   | 0.0000             | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 2.0000e-005        | 1.0000e-005        | 2.0000e-005        | 0.0000        | 0.2434         | 0.2434         | 2.0000e-005        | 0.0000        | 0.2439         |
| Worker       | 3.9000e-004        | 2.7000e-004   | 3.1000e-003   | 1.0000e-005        | 1.0100e-003        | 1.0000e-005        | 1.0200e-003        | 2.7000e-004        | 1.0000e-005        | 2.8000e-004        | 0.0000        | 0.9502         | 0.9502         | 2.0000e-005        | 0.0000        | 0.9507         |
| <b>Total</b> | <b>3.7600e-003</b> | <b>0.1255</b> | <b>0.0345</b> | <b>3.4000e-004</b> | <b>8.0600e-003</b> | <b>4.1000e-004</b> | <b>8.4600e-003</b> | <b>2.2200e-003</b> | <b>4.0000e-004</b> | <b>2.6100e-003</b> | <b>0.0000</b> | <b>34.8362</b> | <b>34.8362</b> | <b>3.5900e-003</b> | <b>0.0000</b> | <b>34.9259</b> |

### 3.11 Wet Utility Installation - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0306        | 0.3395        | 0.2092        | 7.6000e-004        |               | 0.0124        | 0.0124        |                | 0.0114        | 0.0114        | 0.0000        | 66.7993        | 66.7993        | 0.0216        | 0.0000        | 67.3394        |
| <b>Total</b> | <b>0.0306</b> | <b>0.3395</b> | <b>0.2092</b> | <b>7.6000e-004</b> |               | <b>0.0124</b> | <b>0.0124</b> |                | <b>0.0114</b> | <b>0.0114</b> | <b>0.0000</b> | <b>66.7993</b> | <b>66.7993</b> | <b>0.0216</b> | <b>0.0000</b> | <b>67.3394</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 2.7000e-004        | 8.7000e-003   | 2.3700e-003   | 2.0000e-005        | 5.2000e-004        | 4.0000e-005        | 5.6000e-004        | 1.5000e-004        | 4.0000e-005        | 1.9000e-004        | 0.0000        | 1.9961        | 1.9961        | 1.7000e-004        | 0.0000        | 2.0003        |
| Worker       | 2.7200e-003        | 1.9000e-003   | 0.0216        | 7.0000e-005        | 7.6500e-003        | 5.0000e-005        | 7.7000e-003        | 2.0300e-003        | 5.0000e-005        | 2.0800e-003        | 0.0000        | 6.6226        | 6.6226        | 1.5000e-004        | 0.0000        | 6.6264        |
| <b>Total</b> | <b>2.9900e-003</b> | <b>0.0106</b> | <b>0.0240</b> | <b>9.0000e-005</b> | <b>8.1700e-003</b> | <b>9.0000e-005</b> | <b>8.2600e-003</b> | <b>2.1800e-003</b> | <b>9.0000e-005</b> | <b>2.2700e-003</b> | <b>0.0000</b> | <b>8.6187</b> | <b>8.6187</b> | <b>3.2000e-004</b> | <b>0.0000</b> | <b>8.6267</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0306        | 0.3395        | 0.2092        | 7.6000e-004        |               | 0.0124        | 0.0124        |                | 0.0114        | 0.0114        | 0.0000        | 66.7993        | 66.7993        | 0.0216        | 0.0000        | 67.3394        |
| <b>Total</b> | <b>0.0306</b> | <b>0.3395</b> | <b>0.2092</b> | <b>7.6000e-004</b> |               | <b>0.0124</b> | <b>0.0124</b> |                | <b>0.0114</b> | <b>0.0114</b> | <b>0.0000</b> | <b>66.7993</b> | <b>66.7993</b> | <b>0.0216</b> | <b>0.0000</b> | <b>67.3394</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 2.7000e-004        | 8.7000e-003   | 2.3700e-003   | 2.0000e-005        | 4.8000e-004        | 4.0000e-005        | 5.3000e-004        | 1.4000e-004        | 4.0000e-005        | 1.8000e-004        | 0.0000        | 1.9961        | 1.9961        | 1.7000e-004        | 0.0000        | 2.0003        |
| Worker       | 2.7200e-003        | 1.9000e-003   | 0.0216        | 7.0000e-005        | 7.0500e-003        | 5.0000e-005        | 7.1100e-003        | 1.8900e-003        | 5.0000e-005        | 1.9300e-003        | 0.0000        | 6.6226        | 6.6226        | 1.5000e-004        | 0.0000        | 6.6264        |
| <b>Total</b> | <b>2.9900e-003</b> | <b>0.0106</b> | <b>0.0240</b> | <b>9.0000e-005</b> | <b>7.5300e-003</b> | <b>9.0000e-005</b> | <b>7.6400e-003</b> | <b>2.0300e-003</b> | <b>9.0000e-005</b> | <b>2.1100e-003</b> | <b>0.0000</b> | <b>8.6187</b> | <b>8.6187</b> | <b>3.2000e-004</b> | <b>0.0000</b> | <b>8.6267</b> |

### 3.12 Multi-Use Structure - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2151        | 2.1696        | 1.5398        | 3.3700e-003        |               | 0.1167        | 0.1167        |                | 0.1073        | 0.1073        | 0.0000        | 295.9739        | 295.9739        | 0.0957        | 0.0000        | 298.3670        |
| <b>Total</b> | <b>0.2151</b> | <b>2.1696</b> | <b>1.5398</b> | <b>3.3700e-003</b> |               | <b>0.1167</b> | <b>0.1167</b> |                | <b>0.1073</b> | <b>0.1073</b> | <b>0.0000</b> | <b>295.9739</b> | <b>295.9739</b> | <b>0.0957</b> | <b>0.0000</b> | <b>298.3670</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0314        | 1.0232        | 0.2783        | 2.3800e-003        | 0.0607        | 5.2800e-003        | 0.0660        | 0.0175         | 5.0500e-003        | 0.0226        | 0.0000        | 234.8447        | 234.8447        | 0.0196        | 0.0000        | 235.3352        |
| Worker       | 0.0531        | 0.0372        | 0.4222        | 1.4300e-003        | 0.1495        | 1.0100e-003        | 0.1505        | 0.0397         | 9.3000e-004        | 0.0406        | 0.0000        | 129.4118        | 129.4118        | 2.9500e-003   | 0.0000        | 129.4857        |
| <b>Total</b> | <b>0.0845</b> | <b>1.0604</b> | <b>0.7005</b> | <b>3.8100e-003</b> | <b>0.2103</b> | <b>6.2900e-003</b> | <b>0.2166</b> | <b>0.0572</b>  | <b>5.9800e-003</b> | <b>0.0632</b> | <b>0.0000</b> | <b>364.2565</b> | <b>364.2565</b> | <b>0.0226</b> | <b>0.0000</b> | <b>364.8209</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2151        | 2.1696        | 1.5398        | 3.3700e-003        |               | 0.1167        | 0.1167        |                | 0.1073        | 0.1073        | 0.0000        | 295.9735        | 295.9735        | 0.0957        | 0.0000        | 298.3666        |
| <b>Total</b> | <b>0.2151</b> | <b>2.1696</b> | <b>1.5398</b> | <b>3.3700e-003</b> |               | <b>0.1167</b> | <b>0.1167</b> |                | <b>0.1073</b> | <b>0.1073</b> | <b>0.0000</b> | <b>295.9735</b> | <b>295.9735</b> | <b>0.0957</b> | <b>0.0000</b> | <b>298.3666</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0314        | 1.0232        | 0.2783        | 2.3800e-003        | 0.0569        | 5.2800e-003        | 0.0621        | 0.0166         | 5.0500e-003        | 0.0216        | 0.0000        | 234.8447        | 234.8447        | 0.0196        | 0.0000        | 235.3352        |
| Worker       | 0.0531        | 0.0372        | 0.4222        | 1.4300e-003        | 0.1379        | 1.0100e-003        | 0.1389        | 0.0368         | 9.3000e-004        | 0.0378        | 0.0000        | 129.4118        | 129.4118        | 2.9500e-003   | 0.0000        | 129.4857        |
| <b>Total</b> | <b>0.0845</b> | <b>1.0604</b> | <b>0.7005</b> | <b>3.8100e-003</b> | <b>0.1947</b> | <b>6.2900e-003</b> | <b>0.2010</b> | <b>0.0534</b>  | <b>5.9800e-003</b> | <b>0.0594</b> | <b>0.0000</b> | <b>364.2565</b> | <b>364.2565</b> | <b>0.0226</b> | <b>0.0000</b> | <b>364.8209</b> |

### 3.12 Multi-Use Structure - 2021

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2282        | 2.3038        | 1.7489        | 3.8700e-003        |               | 0.1200        | 0.1200        |                | 0.1104        | 0.1104        | 0.0000        | 340.2975        | 340.2975        | 0.1101        | 0.0000        | 343.0490        |
| <b>Total</b> | <b>0.2282</b> | <b>2.3038</b> | <b>1.7489</b> | <b>3.8700e-003</b> |               | <b>0.1200</b> | <b>0.1200</b> |                | <b>0.1104</b> | <b>0.1104</b> | <b>0.0000</b> | <b>340.2975</b> | <b>340.2975</b> | <b>0.1101</b> | <b>0.0000</b> | <b>343.0490</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0303        | 1.0568        | 0.2962        | 2.7100e-003        | 0.0698        | 2.2000e-003        | 0.0720        | 0.0201         | 2.1000e-003        | 0.0222        | 0.0000        | 267.6936        | 267.6936        | 0.0217        | 0.0000        | 268.2353        |
| Worker       | 0.0574        | 0.0386        | 0.4499        | 1.5900e-003        | 0.1719        | 1.1300e-003        | 0.1731        | 0.0457         | 1.0400e-003        | 0.0467        | 0.0000        | 143.6319        | 143.6319        | 3.0800e-003   | 0.0000        | 143.7088        |
| <b>Total</b> | <b>0.0876</b> | <b>1.0954</b> | <b>0.7461</b> | <b>4.3000e-003</b> | <b>0.2417</b> | <b>3.3300e-003</b> | <b>0.2451</b> | <b>0.0658</b>  | <b>3.1400e-003</b> | <b>0.0689</b> | <b>0.0000</b> | <b>411.3255</b> | <b>411.3255</b> | <b>0.0248</b> | <b>0.0000</b> | <b>411.9441</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2282        | 2.3038        | 1.7489        | 3.8700e-003        |               | 0.1200        | 0.1200        |                | 0.1104        | 0.1104        | 0.0000        | 340.2971        | 340.2971        | 0.1101        | 0.0000        | 343.0486        |
| <b>Total</b> | <b>0.2282</b> | <b>2.3038</b> | <b>1.7489</b> | <b>3.8700e-003</b> |               | <b>0.1200</b> | <b>0.1200</b> |                | <b>0.1104</b> | <b>0.1104</b> | <b>0.0000</b> | <b>340.2971</b> | <b>340.2971</b> | <b>0.1101</b> | <b>0.0000</b> | <b>343.0486</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0303        | 1.0568        | 0.2962        | 2.7100e-003        | 0.0654        | 2.2000e-003        | 0.0676        | 0.0190         | 2.1000e-003        | 0.0211        | 0.0000        | 267.6936        | 267.6936        | 0.0217        | 0.0000        | 268.2353        |
| Worker       | 0.0574        | 0.0386        | 0.4499        | 1.5900e-003        | 0.1585        | 1.1300e-003        | 0.1596        | 0.0424         | 1.0400e-003        | 0.0434        | 0.0000        | 143.6319        | 143.6319        | 3.0800e-003   | 0.0000        | 143.7088        |
| <b>Total</b> | <b>0.0876</b> | <b>1.0954</b> | <b>0.7461</b> | <b>4.3000e-003</b> | <b>0.2239</b> | <b>3.3300e-003</b> | <b>0.2272</b> | <b>0.0614</b>  | <b>3.1400e-003</b> | <b>0.0646</b> | <b>0.0000</b> | <b>411.3255</b> | <b>411.3255</b> | <b>0.0248</b> | <b>0.0000</b> | <b>411.9441</b> |

### 3.12 Multi-Use Structure - 2022

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2087        | 2.1127        | 1.7209        | 3.8600e-003        |               | 0.1053        | 0.1053        |                | 0.0969        | 0.0969        | 0.0000        | 339.0103        | 339.0103        | 0.1096        | 0.0000        | 341.7514        |
| <b>Total</b> | <b>0.2087</b> | <b>2.1127</b> | <b>1.7209</b> | <b>3.8600e-003</b> |               | <b>0.1053</b> | <b>0.1053</b> |                | <b>0.0969</b> | <b>0.0969</b> | <b>0.0000</b> | <b>339.0103</b> | <b>339.0103</b> | <b>0.1096</b> | <b>0.0000</b> | <b>341.7514</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0283        | 0.9949        | 0.2847        | 2.6700e-003        | 0.0696        | 1.9000e-003        | 0.0715        | 0.0201         | 1.8200e-003        | 0.0219        | 0.0000        | 264.0385        | 264.0385        | 0.0209        | 0.0000        | 264.5608        |
| Worker       | 0.0541        | 0.0348        | 0.4178        | 1.5200e-003        | 0.1713        | 1.1100e-003        | 0.1724        | 0.0455         | 1.0200e-003        | 0.0465        | 0.0000        | 137.7844        | 137.7844        | 2.7800e-003   | 0.0000        | 137.8539        |
| <b>Total</b> | <b>0.0824</b> | <b>1.0298</b> | <b>0.7025</b> | <b>4.1900e-003</b> | <b>0.2408</b> | <b>3.0100e-003</b> | <b>0.2438</b> | <b>0.0655</b>  | <b>2.8400e-003</b> | <b>0.0684</b> | <b>0.0000</b> | <b>401.8229</b> | <b>401.8229</b> | <b>0.0237</b> | <b>0.0000</b> | <b>402.4147</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.2087        | 2.1127        | 1.7209        | 3.8600e-003        |               | 0.1053        | 0.1053        |                | 0.0969        | 0.0969        | 0.0000        | 339.0099        | 339.0099        | 0.1096        | 0.0000        | 341.7510        |
| <b>Total</b> | <b>0.2087</b> | <b>2.1127</b> | <b>1.7209</b> | <b>3.8600e-003</b> |               | <b>0.1053</b> | <b>0.1053</b> |                | <b>0.0969</b> | <b>0.0969</b> | <b>0.0000</b> | <b>339.0099</b> | <b>339.0099</b> | <b>0.1096</b> | <b>0.0000</b> | <b>341.7510</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Vendor       | 0.0283        | 0.9949        | 0.2847        | 2.6700e-003        | 0.0651        | 1.9000e-003        | 0.0670        | 0.0190         | 1.8200e-003        | 0.0208        | 0.0000        | 264.0385        | 264.0385        | 0.0209        | 0.0000        | 264.5608        |
| Worker       | 0.0541        | 0.0348        | 0.4178        | 1.5200e-003        | 0.1579        | 1.1100e-003        | 0.1590        | 0.0422         | 1.0200e-003        | 0.0432        | 0.0000        | 137.7844        | 137.7844        | 2.7800e-003   | 0.0000        | 137.8539        |
| <b>Total</b> | <b>0.0824</b> | <b>1.0298</b> | <b>0.7025</b> | <b>4.1900e-003</b> | <b>0.2230</b> | <b>3.0100e-003</b> | <b>0.2260</b> | <b>0.0612</b>  | <b>2.8400e-003</b> | <b>0.0640</b> | <b>0.0000</b> | <b>401.8229</b> | <b>401.8229</b> | <b>0.0237</b> | <b>0.0000</b> | <b>402.4147</b> |

### 3.12 Multi-Use Structure - 2023

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0152        | 0.1491        | 0.1318        | 3.0000e-004        |               | 7.3900e-003        | 7.3900e-003        |                | 6.8000e-003        | 6.8000e-003        | 0.0000        | 26.0835        | 26.0835        | 8.4400e-003        | 0.0000        | 26.2944        |
| <b>Total</b> | <b>0.0152</b> | <b>0.1491</b> | <b>0.1318</b> | <b>3.0000e-004</b> |               | <b>7.3900e-003</b> | <b>7.3900e-003</b> |                | <b>6.8000e-003</b> | <b>6.8000e-003</b> | <b>0.0000</b> | <b>26.0835</b> | <b>26.0835</b> | <b>8.4400e-003</b> | <b>0.0000</b> | <b>26.2944</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.6600e-003        | 0.0575        | 0.0203        | 2.0000e-004        | 5.3500e-003   | 7.0000e-005        | 5.4200e-003   | 1.5400e-003        | 7.0000e-005        | 1.6100e-003        | 0.0000        | 19.6971        | 19.6971        | 1.4900e-003        | 0.0000        | 19.7343        |
| Worker       | 3.9400e-003        | 2.4300e-003   | 0.0299        | 1.1000e-004        | 0.0132        | 8.0000e-005        | 0.0133        | 3.5000e-003        | 8.0000e-005        | 3.5800e-003        | 0.0000        | 10.1917        | 10.1917        | 1.9000e-004        | 0.0000        | 10.1966        |
| <b>Total</b> | <b>5.6000e-003</b> | <b>0.0599</b> | <b>0.0502</b> | <b>3.1000e-004</b> | <b>0.0185</b> | <b>1.5000e-004</b> | <b>0.0187</b> | <b>5.0400e-003</b> | <b>1.5000e-004</b> | <b>5.1900e-003</b> | <b>0.0000</b> | <b>29.8888</b> | <b>29.8888</b> | <b>1.6800e-003</b> | <b>0.0000</b> | <b>29.9309</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |               |                |
| Off-Road     | 0.0152        | 0.1491        | 0.1318        | 3.0000e-004        |               | 7.3900e-003        | 7.3900e-003        |                | 6.8000e-003        | 6.8000e-003        | 0.0000        | 26.0835        | 26.0835        | 8.4400e-003        | 0.0000        | 26.2944        |
| <b>Total</b> | <b>0.0152</b> | <b>0.1491</b> | <b>0.1318</b> | <b>3.0000e-004</b> |               | <b>7.3900e-003</b> | <b>7.3900e-003</b> |                | <b>6.8000e-003</b> | <b>6.8000e-003</b> | <b>0.0000</b> | <b>26.0835</b> | <b>26.0835</b> | <b>8.4400e-003</b> | <b>0.0000</b> | <b>26.2944</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 1.6600e-003        | 0.0575        | 0.0203        | 2.0000e-004        | 5.0100e-003   | 7.0000e-005        | 5.0800e-003   | 1.4600e-003        | 7.0000e-005        | 1.5300e-003        | 0.0000        | 19.6971        | 19.6971        | 1.4900e-003        | 0.0000        | 19.7343        |
| Worker       | 3.9400e-003        | 2.4300e-003   | 0.0299        | 1.1000e-004        | 0.0122        | 8.0000e-005        | 0.0122        | 3.2500e-003        | 8.0000e-005        | 3.3200e-003        | 0.0000        | 10.1917        | 10.1917        | 1.9000e-004        | 0.0000        | 10.1966        |
| <b>Total</b> | <b>5.6000e-003</b> | <b>0.0599</b> | <b>0.0502</b> | <b>3.1000e-004</b> | <b>0.0172</b> | <b>1.5000e-004</b> | <b>0.0173</b> | <b>4.7100e-003</b> | <b>1.5000e-004</b> | <b>4.8500e-003</b> | <b>0.0000</b> | <b>29.8888</b> | <b>29.8888</b> | <b>1.6800e-003</b> | <b>0.0000</b> | <b>29.9309</b> |

### 3.13 Structural Concrete - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1234        | 1.3853        | 1.1901        | 2.0200e-003        |               | 0.0665        | 0.0665        |                | 0.0613        | 0.0613        | 0.0000        | 175.7037        | 175.7037        | 0.0558        | 0.0000        | 177.0980        |
| Paving       | 5.0000e-004   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b> | <b>0.1239</b> | <b>1.3853</b> | <b>1.1901</b> | <b>2.0200e-003</b> |               | <b>0.0665</b> | <b>0.0665</b> |                | <b>0.0613</b> | <b>0.0613</b> | <b>0.0000</b> | <b>175.7037</b> | <b>175.7037</b> | <b>0.0558</b> | <b>0.0000</b> | <b>177.0980</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0163        | 0.0114        | 0.1296        | 4.4000e-004        | 0.0459        | 3.1000e-004        | 0.0462        | 0.0122         | 2.8000e-004        | 0.0125        | 0.0000        | 39.7167        | 39.7167        | 9.1000e-004        | 0.0000        | 39.7394        |
| <b>Total</b> | <b>0.0163</b> | <b>0.0114</b> | <b>0.1296</b> | <b>4.4000e-004</b> | <b>0.0459</b> | <b>3.1000e-004</b> | <b>0.0462</b> | <b>0.0122</b>  | <b>2.8000e-004</b> | <b>0.0125</b> | <b>0.0000</b> | <b>39.7167</b> | <b>39.7167</b> | <b>9.1000e-004</b> | <b>0.0000</b> | <b>39.7394</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |               |               |                 |
| Off-Road     | 0.1234        | 1.3853        | 1.1901        | 2.0200e-003        |               | 0.0665        | 0.0665        |                | 0.0613        | 0.0613        | 0.0000        | 175.7035        | 175.7035        | 0.0558        | 0.0000        | 177.0978        |
| Paving       | 5.0000e-004   |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| <b>Total</b> | <b>0.1239</b> | <b>1.3853</b> | <b>1.1901</b> | <b>2.0200e-003</b> |               | <b>0.0665</b> | <b>0.0665</b> |                | <b>0.0613</b> | <b>0.0613</b> | <b>0.0000</b> | <b>175.7035</b> | <b>175.7035</b> | <b>0.0558</b> | <b>0.0000</b> | <b>177.0978</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                |                    |               | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0163        | 0.0114        | 0.1296        | 4.4000e-004        | 0.0423        | 3.1000e-004        | 0.0426        | 0.0113         | 2.8000e-004        | 0.0116        | 0.0000        | 39.7167        | 39.7167        | 9.1000e-004        | 0.0000        | 39.7394        |
| <b>Total</b> | <b>0.0163</b> | <b>0.0114</b> | <b>0.1296</b> | <b>4.4000e-004</b> | <b>0.0423</b> | <b>3.1000e-004</b> | <b>0.0426</b> | <b>0.0113</b>  | <b>2.8000e-004</b> | <b>0.0116</b> | <b>0.0000</b> | <b>39.7167</b> | <b>39.7167</b> | <b>9.1000e-004</b> | <b>0.0000</b> | <b>39.7394</b> |

### 3.14 Dry Utility Installation - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 2.7100e-003        | 0.0306        | 0.0218        | 6.0000e-005        |               | 1.1800e-003        | 1.1800e-003        |                | 1.0800e-003        | 1.0800e-003        | 0.0000        | 4.9606        | 4.9606        | 1.6000e-003        | 0.0000        | 5.0008        |
| <b>Total</b> | <b>2.7100e-003</b> | <b>0.0306</b> | <b>0.0218</b> | <b>6.0000e-005</b> |               | <b>1.1800e-003</b> | <b>1.1800e-003</b> |                | <b>1.0800e-003</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>4.9606</b> | <b>4.9606</b> | <b>1.6000e-003</b> | <b>0.0000</b> | <b>5.0008</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 3.0000e-005        | 1.0600e-003        | 2.9000e-004        | 0.0000             | 6.0000e-005        | 1.0000e-005        | 7.0000e-005        | 2.0000e-005        | 1.0000e-005        | 2.0000e-005        | 0.0000        | 0.2434        | 0.2434        | 2.0000e-005        | 0.0000        | 0.2439        |
| Worker       | 3.5000e-004        | 2.5000e-004        | 2.7900e-003        | 1.0000e-005        | 9.9000e-004        | 1.0000e-005        | 9.9000e-004        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 0.0000        | 0.8551        | 0.8551        | 2.0000e-005        | 0.0000        | 0.8556        |
| <b>Total</b> | <b>3.8000e-004</b> | <b>1.3100e-003</b> | <b>3.0800e-003</b> | <b>1.0000e-005</b> | <b>1.0500e-003</b> | <b>2.0000e-005</b> | <b>1.0600e-003</b> | <b>2.8000e-004</b> | <b>2.0000e-005</b> | <b>2.9000e-004</b> | <b>0.0000</b> | <b>1.0986</b> | <b>1.0986</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.0996</b> |

### Mitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 2.7100e-003        | 0.0306        | 0.0218        | 6.0000e-005        |               | 1.1800e-003        | 1.1800e-003        |                | 1.0800e-003        | 1.0800e-003        | 0.0000        | 4.9606        | 4.9606        | 1.6000e-003        | 0.0000        | 5.0007        |
| <b>Total</b> | <b>2.7100e-003</b> | <b>0.0306</b> | <b>0.0218</b> | <b>6.0000e-005</b> |               | <b>1.1800e-003</b> | <b>1.1800e-003</b> |                | <b>1.0800e-003</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>4.9606</b> | <b>4.9606</b> | <b>1.6000e-003</b> | <b>0.0000</b> | <b>5.0007</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 3.0000e-005        | 1.0600e-003        | 2.9000e-004        | 0.0000             | 6.0000e-005        | 1.0000e-005        | 6.0000e-005        | 2.0000e-005        | 1.0000e-005        | 2.0000e-005        | 0.0000        | 0.2434        | 0.2434        | 2.0000e-005        | 0.0000        | 0.2439        |
| Worker       | 3.5000e-004        | 2.5000e-004        | 2.7900e-003        | 1.0000e-005        | 9.1000e-004        | 1.0000e-005        | 9.2000e-004        | 2.4000e-004        | 1.0000e-005        | 2.5000e-004        | 0.0000        | 0.8551        | 0.8551        | 2.0000e-005        | 0.0000        | 0.8556        |
| <b>Total</b> | <b>3.8000e-004</b> | <b>1.3100e-003</b> | <b>3.0800e-003</b> | <b>1.0000e-005</b> | <b>9.7000e-004</b> | <b>2.0000e-005</b> | <b>9.8000e-004</b> | <b>2.6000e-004</b> | <b>2.0000e-005</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>1.0986</b> | <b>1.0986</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>1.0996</b> |

### 3.15 Street Improvements - Balancing / Aggregate Base - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 5.4800e-003        | 0.0649        | 0.0384        | 8.0000e-005        |               | 2.6900e-003        | 2.6900e-003        |                | 2.4700e-003        | 2.4700e-003        | 0.0000        | 6.9913        | 6.9913        | 2.2600e-003        | 0.0000        | 7.0478        |
| Paving       | 5.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>5.9800e-003</b> | <b>0.0649</b> | <b>0.0384</b> | <b>8.0000e-005</b> |               | <b>2.6900e-003</b> | <b>2.6900e-003</b> |                | <b>2.4700e-003</b> | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.9913</b> | <b>6.9913</b> | <b>2.2600e-003</b> | <b>0.0000</b> | <b>7.0478</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 2.0000e-005        | 5.3000e-004        | 1.4000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.1217        | 0.1217        | 1.0000e-005        | 0.0000        | 0.1220        |
| Worker       | 1.6000e-004        | 1.1000e-004        | 1.2400e-003        | 0.0000        | 4.4000e-004        | 0.0000        | 4.4000e-004        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 0.3801        | 0.3801        | 1.0000e-005        | 0.0000        | 0.3803        |
| <b>Total</b> | <b>1.8000e-004</b> | <b>6.4000e-004</b> | <b>1.3800e-003</b> | <b>0.0000</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>4.7000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.5018</b> | <b>0.5018</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.5023</b> |

### Mitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 5.4800e-003        | 0.0649        | 0.0384        | 8.0000e-005        |               | 2.6900e-003        | 2.6900e-003        |                | 2.4700e-003        | 2.4700e-003        | 0.0000        | 6.9913        | 6.9913        | 2.2600e-003        | 0.0000        | 7.0478        |
| Paving       | 5.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>5.9800e-003</b> | <b>0.0649</b> | <b>0.0384</b> | <b>8.0000e-005</b> |               | <b>2.6900e-003</b> | <b>2.6900e-003</b> |                | <b>2.4700e-003</b> | <b>2.4700e-003</b> | <b>0.0000</b> | <b>6.9913</b> | <b>6.9913</b> | <b>2.2600e-003</b> | <b>0.0000</b> | <b>7.0478</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 2.0000e-005        | 5.3000e-004        | 1.4000e-004        | 0.0000        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.1217        | 0.1217        | 1.0000e-005        | 0.0000        | 0.1220        |
| Worker       | 1.6000e-004        | 1.1000e-004        | 1.2400e-003        | 0.0000        | 4.0000e-004        | 0.0000        | 4.1000e-004        | 1.1000e-004        | 0.0000        | 1.1000e-004        | 0.0000        | 0.3801        | 0.3801        | 1.0000e-005        | 0.0000        | 0.3803        |
| <b>Total</b> | <b>1.8000e-004</b> | <b>6.4000e-004</b> | <b>1.3800e-003</b> | <b>0.0000</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>4.4000e-004</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.5018</b> | <b>0.5018</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.5023</b> |

### 3.16 Street Improvements - Curb & Gutter - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Off-Road     | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Paving       | 5.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.8000e-004        | 1.2000e-004        | 1.3900e-003        | 0.0000        | 4.9000e-004        | 0.0000        | 5.0000e-004        | 1.3000e-004        | 0.0000        | 1.3000e-004        | 0.0000        | 0.4276        | 0.4276        | 1.0000e-005        | 0.0000        | 0.4278        |
| <b>Total</b> | <b>1.8000e-004</b> | <b>1.2000e-004</b> | <b>1.3900e-003</b> | <b>0.0000</b> | <b>4.9000e-004</b> | <b>0.0000</b> | <b>5.0000e-004</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>0.4276</b> | <b>0.4276</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4278</b> |

### Mitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Off-Road     | 0.0000             | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Paving       | 5.0000e-004        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>5.0000e-004</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.8000e-004        | 1.2000e-004        | 1.3900e-003        | 0.0000        | 4.6000e-004        | 0.0000        | 4.6000e-004        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 0.4276        | 0.4276        | 1.0000e-005        | 0.0000        | 0.4278        |
| <b>Total</b> | <b>1.8000e-004</b> | <b>1.2000e-004</b> | <b>1.3900e-003</b> | <b>0.0000</b> | <b>4.6000e-004</b> | <b>0.0000</b> | <b>4.6000e-004</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>0.4276</b> | <b>0.4276</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.4278</b> |

### 3.17 Asphalt Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.2400e-003        | 0.0147        | 8.7700e-003        | 2.0000e-005        |               | 6.2000e-004        | 6.2000e-004        |                | 5.7000e-004        | 5.7000e-004        | 0.0000        | 1.6086        | 1.6086        | 5.2000e-004        | 0.0000        | 1.6216        |
| Paving       | 5.0000e-004        |               |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.7400e-003</b> | <b>0.0147</b> | <b>8.7700e-003</b> | <b>2.0000e-005</b> |               | <b>6.2000e-004</b> | <b>6.2000e-004</b> |                | <b>5.7000e-004</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>1.6086</b> | <b>1.6086</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>1.6216</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 5.0000e-005        | 3.0000e-005        | 3.7000e-004        | 0.0000        | 1.3000e-004        | 0.0000        | 1.3000e-004        | 3.0000e-005        | 0.0000        | 4.0000e-005        | 0.0000        | 0.1140        | 0.1140        | 0.0000        | 0.0000        | 0.1141        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>3.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.1140</b> | <b>0.1140</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1141</b> |

### Mitigated Construction On-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.2400e-003        | 0.0147        | 8.7700e-003        | 2.0000e-005        |               | 6.2000e-004        | 6.2000e-004        |                | 5.7000e-004        | 5.7000e-004        | 0.0000        | 1.6086        | 1.6086        | 5.2000e-004        | 0.0000        | 1.6216        |
| Paving       | 5.0000e-004        |               |                    |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.7400e-003</b> | <b>0.0147</b> | <b>8.7700e-003</b> | <b>2.0000e-005</b> |               | <b>6.2000e-004</b> | <b>6.2000e-004</b> |                | <b>5.7000e-004</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>1.6086</b> | <b>1.6086</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>1.6216</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 5.0000e-005        | 3.0000e-005        | 3.7000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.1140        | 0.1140        | 0.0000        | 0.0000        | 0.1141        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>3.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1140</b> | <b>0.1140</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1141</b> |

### 3.18 Street Improvements - Concrete Flatwork - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.1000e-003        | 0.0111        | 0.0120        | 2.0000e-005        |               | 7.0000e-004        | 7.0000e-004        |                | 6.5000e-004        | 6.5000e-004        | 0.0000        | 1.4388        | 1.4388        | 4.7000e-004        | 0.0000        | 1.4504        |
| Paving       | 5.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.6000e-003</b> | <b>0.0111</b> | <b>0.0120</b> | <b>2.0000e-005</b> |               | <b>7.0000e-004</b> | <b>7.0000e-004</b> |                | <b>6.5000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>1.4388</b> | <b>1.4388</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>1.4504</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.4000e-004        | 2.4000e-004        | 2.7300e-003        | 1.0000e-005        | 9.7000e-004        | 1.0000e-005        | 9.7000e-004        | 2.6000e-004        | 1.0000e-005        | 2.6000e-004        | 0.0000        | 0.8361        | 0.8361        | 2.0000e-005        | 0.0000        | 0.8366        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>2.4000e-004</b> | <b>2.7300e-003</b> | <b>1.0000e-005</b> | <b>9.7000e-004</b> | <b>1.0000e-005</b> | <b>9.7000e-004</b> | <b>2.6000e-004</b> | <b>1.0000e-005</b> | <b>2.6000e-004</b> | <b>0.0000</b> | <b>0.8361</b> | <b>0.8361</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.8366</b> |

### Mitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.1000e-003        | 0.0111        | 0.0120        | 2.0000e-005        |               | 7.0000e-004        | 7.0000e-004        |                | 6.5000e-004        | 6.5000e-004        | 0.0000        | 1.4388        | 1.4388        | 4.7000e-004        | 0.0000        | 1.4504        |
| Paving       | 5.0000e-004        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| <b>Total</b> | <b>1.6000e-003</b> | <b>0.0111</b> | <b>0.0120</b> | <b>2.0000e-005</b> |               | <b>7.0000e-004</b> | <b>7.0000e-004</b> |                | <b>6.5000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>1.4388</b> | <b>1.4388</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>1.4504</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.4000e-004        | 2.4000e-004        | 2.7300e-003        | 1.0000e-005        | 8.9000e-004        | 1.0000e-005        | 9.0000e-004        | 2.4000e-004        | 1.0000e-005        | 2.4000e-004        | 0.0000        | 0.8361        | 0.8361        | 2.0000e-005        | 0.0000        | 0.8366        |
| <b>Total</b> | <b>3.4000e-004</b> | <b>2.4000e-004</b> | <b>2.7300e-003</b> | <b>1.0000e-005</b> | <b>8.9000e-004</b> | <b>1.0000e-005</b> | <b>9.0000e-004</b> | <b>2.4000e-004</b> | <b>1.0000e-005</b> | <b>2.4000e-004</b> | <b>0.0000</b> | <b>0.8361</b> | <b>0.8361</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.8366</b> |

### 3.19 Architectural Coating - 2022

#### Unmitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.8081        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.8100e-003   | 0.0331        | 0.0426        | 7.0000e-005        |               | 1.9200e-003        | 1.9200e-003        |                | 1.9200e-003        | 1.9200e-003        | 0.0000        | 6.0002        | 6.0002        | 3.9000e-004        | 0.0000        | 6.0099        |
| <b>Total</b>    | <b>0.8129</b> | <b>0.0331</b> | <b>0.0426</b> | <b>7.0000e-005</b> |               | <b>1.9200e-003</b> | <b>1.9200e-003</b> |                | <b>1.9200e-003</b> | <b>1.9200e-003</b> | <b>0.0000</b> | <b>6.0002</b> | <b>6.0002</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>6.0099</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.9600e-003        | 1.2600e-003        | 0.0151        | 6.0000e-005        | 6.1900e-003        | 4.0000e-005        | 6.2300e-003        | 1.6400e-003        | 4.0000e-005        | 1.6800e-003        | 0.0000        | 4.9814        | 4.9814        | 1.0000e-004        | 0.0000        | 4.9840        |
| <b>Total</b> | <b>1.9600e-003</b> | <b>1.2600e-003</b> | <b>0.0151</b> | <b>6.0000e-005</b> | <b>6.1900e-003</b> | <b>4.0000e-005</b> | <b>6.2300e-003</b> | <b>1.6400e-003</b> | <b>4.0000e-005</b> | <b>1.6800e-003</b> | <b>0.0000</b> | <b>4.9814</b> | <b>4.9814</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>4.9840</b> |

### Mitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.8081        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 4.8100e-003   | 0.0331        | 0.0426        | 7.0000e-005        |               | 1.9200e-003        | 1.9200e-003        |                | 1.9200e-003        | 1.9200e-003        | 0.0000        | 6.0001        | 6.0001        | 3.9000e-004        | 0.0000        | 6.0099        |
| <b>Total</b>    | <b>0.8129</b> | <b>0.0331</b> | <b>0.0426</b> | <b>7.0000e-005</b> |               | <b>1.9200e-003</b> | <b>1.9200e-003</b> |                | <b>1.9200e-003</b> | <b>1.9200e-003</b> | <b>0.0000</b> | <b>6.0001</b> | <b>6.0001</b> | <b>3.9000e-004</b> | <b>0.0000</b> | <b>6.0099</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.9600e-003        | 1.2600e-003        | 0.0151        | 6.0000e-005        | 5.7100e-003        | 4.0000e-005        | 5.7500e-003        | 1.5300e-003        | 4.0000e-005        | 1.5600e-003        | 0.0000        | 4.9814        | 4.9814        | 1.0000e-004        | 0.0000        | 4.9840        |
| <b>Total</b> | <b>1.9600e-003</b> | <b>1.2600e-003</b> | <b>0.0151</b> | <b>6.0000e-005</b> | <b>5.7100e-003</b> | <b>4.0000e-005</b> | <b>5.7500e-003</b> | <b>1.5300e-003</b> | <b>4.0000e-005</b> | <b>1.5600e-003</b> | <b>0.0000</b> | <b>4.9814</b> | <b>4.9814</b> | <b>1.0000e-004</b> | <b>0.0000</b> | <b>4.9840</b> |

### 3.19 Architectural Coating - 2023

#### Unmitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3439        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.9200e-003   | 0.0130        | 0.0181        | 3.0000e-005        |               | 7.1000e-004        | 7.1000e-004        |                | 7.1000e-004        | 7.1000e-004        | 0.0000        | 2.5533        | 2.5533        | 1.5000e-004        | 0.0000        | 2.5571        |
| <b>Total</b>    | <b>0.3458</b> | <b>0.0130</b> | <b>0.0181</b> | <b>3.0000e-005</b> |               | <b>7.1000e-004</b> | <b>7.1000e-004</b> |                | <b>7.1000e-004</b> | <b>7.1000e-004</b> | <b>0.0000</b> | <b>2.5533</b> | <b>2.5533</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>2.5571</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.9000e-004        | 4.9000e-004        | 5.9900e-003        | 2.0000e-005        | 2.6300e-003        | 2.0000e-005        | 2.6500e-003        | 7.0000e-004        | 2.0000e-005        | 7.2000e-004        | 0.0000        | 2.0383        | 2.0383        | 4.0000e-005        | 0.0000        | 2.0393        |
| <b>Total</b> | <b>7.9000e-004</b> | <b>4.9000e-004</b> | <b>5.9900e-003</b> | <b>2.0000e-005</b> | <b>2.6300e-003</b> | <b>2.0000e-005</b> | <b>2.6500e-003</b> | <b>7.0000e-004</b> | <b>2.0000e-005</b> | <b>7.2000e-004</b> | <b>0.0000</b> | <b>2.0383</b> | <b>2.0383</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>2.0393</b> |

### Mitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3439        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.9200e-003   | 0.0130        | 0.0181        | 3.0000e-005        |               | 7.1000e-004        | 7.1000e-004        |                | 7.1000e-004        | 7.1000e-004        | 0.0000        | 2.5533        | 2.5533        | 1.5000e-004        | 0.0000        | 2.5571        |
| <b>Total</b>    | <b>0.3458</b> | <b>0.0130</b> | <b>0.0181</b> | <b>3.0000e-005</b> |               | <b>7.1000e-004</b> | <b>7.1000e-004</b> |                | <b>7.1000e-004</b> | <b>7.1000e-004</b> | <b>0.0000</b> | <b>2.5533</b> | <b>2.5533</b> | <b>1.5000e-004</b> | <b>0.0000</b> | <b>2.5571</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 7.9000e-004        | 4.9000e-004        | 5.9900e-003        | 2.0000e-005        | 2.4300e-003        | 2.0000e-005        | 2.4500e-003        | 6.5000e-004        | 2.0000e-005        | 6.6000e-004        | 0.0000        | 2.0383        | 2.0383        | 4.0000e-005        | 0.0000        | 2.0393        |
| <b>Total</b> | <b>7.9000e-004</b> | <b>4.9000e-004</b> | <b>5.9900e-003</b> | <b>2.0000e-005</b> | <b>2.4300e-003</b> | <b>2.0000e-005</b> | <b>2.4500e-003</b> | <b>6.5000e-004</b> | <b>2.0000e-005</b> | <b>6.6000e-004</b> | <b>0.0000</b> | <b>2.0383</b> | <b>2.0383</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>2.0393</b> |

Construction - Orange County, Summer

## Construction Orange County, Summer

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                     |                            |                                     |       |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                      | <b>Wind Speed (m/s)</b>             | 2.2   | <b>Precipitation Freq (Days)</b>    | 30    |
| <b>Climate Zone</b>                 | 8                          |                                     |       | <b>Operational Year</b>             | 2024  |
| <b>Utility Company</b>              | Southern California Edison |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

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Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Off-road Equipment -

| Table Name              | Column Name                       | Default Value | New Value  |
|-------------------------|-----------------------------------|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,750.00      | 2,813.00   |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,250.00     | 9,000.00   |
| tblArchitecturalCoating | ConstArea_Residential_Exterior    | 297,423.00    | 223,067.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior    | 892,270.00    | 713,816.00 |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 9          |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed      | 0             | 15         |
| tblConstructionPhase    | NumDays                           | 20.00         | 67.00      |
| tblConstructionPhase    | NumDays                           | 230.00        | 768.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 17.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 9.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 10.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 209.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 2.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 11.00      |
| tblConstructionPhase    | NumDays                           | 10.00         | 1.00       |
| tblGrading              | MaterialExported                  | 0.00          | 7,542.00   |
| tblGrading              | MaterialExported                  | 0.00          | 7,000.00   |
| tblLandUse              | LandUseSquareFeet                 | 278,340.00    | 278,337.00 |
| tblLandUse              | LandUseSquareFeet                 | 14,374.80     | 0.00       |
| tblLandUse              | LandUseSquareFeet                 | 21,780.00     | 0.00       |

|                     |                   |            |            |
|---------------------|-------------------|------------|------------|
| tblLandUse          | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse          | LotAcreage        | 6.39       | 1.06       |
| tblLandUse          | LotAcreage        | 0.05       | 0.00       |
| tblLandUse          | LotAcreage        | 9.21       | 3.74       |
| tblLandUse          | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment | HorsePower        | 231.00     | 110.00     |
| tblOffRoadEquipment | HorsePower        | 231.00     | 93.00      |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 89.00      | 173.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 130.00     | 173.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 407.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 260.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |

|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 100.00 | 238.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 65.00  | 75.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 127.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |



|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00   | 2.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 692.00 | 875.00   |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 13.00  | 34.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 372.00 | 120.00   |
| tblTripsAndVMT      | WorkerTripNumber           | 15.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 5.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 10.00  | 16.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 8.00   | 12.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 3.00   | 16.00    |

|                |                  |       |       |
|----------------|------------------|-------|-------|
| tblTripsAndVMT | WorkerTripNumber | 74.00 | 24.00 |
| tblTripsAndVMT | WorkerTripNumber | 0.00  | 8.00  |
| tblTripsAndVMT | WorkerTripNumber | 8.00  | 18.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 16.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00  | 6.00  |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 10.9293 | 155.3026 | 87.4665 | 0.2950 | 49.3887       | 4.3391       | 53.7278    | 10.3912        | 4.0003        | 14.3916     | 0.0000   | 31,057.6547 | 31,057.6547 | 5.9928 | 0.0000 | 31,207.4744 |
| 2020    | 9.5719  | 215.2077 | 71.7232 | 0.4873 | 17.8156       | 2.9449       | 20.7604    | 6.1851         | 2.7269        | 8.9120      | 0.0000   | 53,229.3881 | 53,229.3881 | 7.0214 | 0.0000 | 53,404.9214 |
| 2021    | 2.4085  | 25.8899  | 19.2091 | 0.0633 | 1.8844        | 0.9444       | 2.8288     | 0.5120         | 0.8695        | 1.3815      | 0.0000   | 6,421.8047  | 6,421.8047  | 1.1358 | 0.0000 | 6,450.2008  |
| 2022    | 36.9020 | 25.4890  | 21.2217 | 0.0680 | 2.1526        | 0.9163       | 3.0689     | 0.5831         | 0.8500        | 1.4332      | 0.0000   | 6,877.3310  | 6,877.3310  | 1.1510 | 0.0000 | 6,906.1069  |
| 2023    | 36.7276 | 22.1632  | 20.7437 | 0.0668 | 2.1526        | 0.8267       | 2.9794     | 0.5831         | 0.7665        | 1.3496      | 0.0000   | 6,753.1496  | 6,753.1496  | 1.1348 | 0.0000 | 6,781.5198  |
| Maximum | 36.9020 | 215.2077 | 87.4665 | 0.4873 | 49.3887       | 4.3391       | 53.7278    | 10.3912        | 4.0003        | 14.3916     | 0.0000   | 53,229.3881 | 53,229.3881 | 7.0214 | 0.0000 | 53,404.9214 |

## Mitigated Construction

|         | ROG     | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 10.9293 | 155.3026 | 87.4665 | 0.2950 | 23.2541       | 4.3391       | 27.5932    | 5.0330         | 4.0003        | 9.0333      | 0.0000   | 31,057.6546 | 31,057.6546 | 5.9928 | 0.0000 | 31,207.4743 |
| 2020    | 9.5719  | 215.2077 | 71.7232 | 0.4873 | 12.4900       | 2.9449       | 15.4348    | 3.9960         | 2.7269        | 6.7229      | 0.0000   | 53,229.3881 | 53,229.3881 | 7.0214 | 0.0000 | 53,404.9214 |
| 2021    | 2.4085  | 25.8899  | 19.2091 | 0.0633 | 1.7446        | 0.9444       | 2.6890     | 0.4777         | 0.8695        | 1.3472      | 0.0000   | 6,421.8047  | 6,421.8047  | 1.1358 | 0.0000 | 6,450.2008  |
| 2022    | 36.9020 | 25.4890  | 21.2217 | 0.0680 | 1.9918        | 0.9163       | 2.9081     | 0.5437         | 0.8500        | 1.3937      | 0.0000   | 6,877.3310  | 6,877.3310  | 1.1510 | 0.0000 | 6,906.1069  |
| 2023    | 36.7276 | 22.1632  | 20.7437 | 0.0668 | 1.9918        | 0.8267       | 2.8185     | 0.5437         | 0.7665        | 1.3102      | 0.0000   | 6,753.1496  | 6,753.1496  | 1.1348 | 0.0000 | 6,781.5198  |
| Maximum | 36.9020 | 215.2077 | 87.4665 | 0.4873 | 23.2541       | 4.3391       | 27.5932    | 5.0330         | 4.0003        | 9.0333      | 0.0000   | 53,229.3881 | 53,229.3881 | 7.0214 | 0.0000 | 53,404.9214 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 43.49         | 0.00         | 38.29      | 41.97          | 0.00          | 27.89       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

## 3.0 Construction Detail

### Construction Phase

| Phase Number | Phase Name                | Phase Type | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|---------------------------|------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition       | Demolition | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul | Demolition | 12/5/2019  | 12/27/2019 | 5             | 17       |                   |
| 3            | Asphalt Demolition        | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul  | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |

|    |                                                        |                       |            |            |   |     |
|----|--------------------------------------------------------|-----------------------|------------|------------|---|-----|
| 5  | Site Preparation                                       | Site Preparation      | 12/26/2019 | 12/26/2019 | 5 | 1   |
| 6  | Rough Grading                                          | Grading               | 12/29/2019 | 1/1/2020   | 5 | 3   |
| 7  | Rough Grading Soil Haul                                | Grading               | 1/1/2020   | 1/3/2020   | 5 | 3   |
| 8  | Fine Grading                                           | Grading               | 1/1/2020   | 1/13/2020  | 5 | 9   |
| 9  | Parking Structure                                      | Grading               | 1/5/2020   | 1/17/2020  | 5 | 10  |
| 10 | Excavation/Shoring/Hauling<br>Wet Utility Installation | Trenching             | 1/9/2020   | 3/5/2020   | 5 | 41  |
| 11 | Multi-Use Structure                                    | Building Construction | 2/19/2020  | 1/27/2023  | 5 | 768 |
| 12 | Structural Concrete                                    | Paving                | 2/19/2020  | 12/7/2020  | 5 | 209 |
| 13 | Dry Utility Installation                               | Trenching             | 3/2/2020   | 3/13/2020  | 5 | 10  |
| 14 | Street Improvements - Balancing<br>/ Aggregate Base    | Paving                | 3/16/2020  | 3/20/2020  | 5 | 5   |
| 15 | Street Improvements - Curb &<br>Gutter                 | Paving                | 3/23/2020  | 3/27/2020  | 5 | 5   |
| 16 | Asphalt Paving                                         | Paving                | 4/1/2020   | 4/2/2020   | 5 | 2   |
| 17 | Street Improvements - Concrete<br>Flatwork             | Paving                | 4/5/2020   | 4/20/2020  | 5 | 11  |
| 18 | Architectural Coating                                  | Architectural Coating | 10/27/2022 | 1/27/2023  | 5 | 67  |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.44**

**Residential Indoor: 713,816; Residential Outdoor: 223,067; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 2,813; Striped**

#### **OffRoad Equipment**

| Phase Name          | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |

|                                                 |                           |   |      |     |      |
|-------------------------------------------------|---------------------------|---|------|-----|------|
| Building Demo Debris Haul                       | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Building Demo Debris Haul                       | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Building Demo Debris Haul                       | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demolition                              | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demolition                              | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Asphalt Demolition                              | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demo Debris Haul                        | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demo Debris Haul                        | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Asphalt Demo Debris Haul                        | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Site Preparation                                | Rubber Tired Dozers       | 1 | 8.00 | 365 | 0.40 |
| Site Preparation                                | Tractors/Loaders/Backhoes | 2 | 8.00 | 260 | 0.37 |
| Rough Grading                                   | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Rough Grading                                   | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Rough Grading                                   | Rubber Tired Dozers       | 1 | 8.00 | 257 | 0.40 |
| Rough Grading                                   | Rubber Tired Dozers       | 1 | 8.00 | 562 | 0.40 |
| Rough Grading                                   | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Rough Grading                                   | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Rough Grading Soil Haul                         | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Rough Grading Soil Haul                         | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Rough Grading Soil Haul                         | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading Soil Haul                         | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Fine Grading                                    | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Fine Grading                                    | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Fine Grading                                    | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Fine Grading                                    | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Parking Structure<br>Excavation/Shoring/Hauling | Bore/Drill Rigs           | 1 | 8.00 | 221 | 0.50 |
| Parking Structure<br>Excavation/Shoring/Hauling | Cranes                    | 1 | 8.00 | 231 | 0.29 |

|                                                  |                           |   |      |     |      |
|--------------------------------------------------|---------------------------|---|------|-----|------|
| Parking Structure                                | Excavators                | 1 | 8.00 | 238 | 0.38 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Parking Structure                                | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Parking Structure                                | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Parking Structure                                | Tractors/Loaders/Backhoes | 1 | 8.00 | 407 | 0.37 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Wet Utility Installation                         | Excavators                | 2 | 8.00 | 300 | 0.38 |
| Wet Utility Installation                         | Tractors/Loaders/Backhoes | 2 | 8.00 | 230 | 0.37 |
| Wet Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Multi-Use Structure                              | Cranes                    | 1 | 8.00 | 110 | 0.29 |
| Multi-Use Structure                              | Cranes                    | 2 | 8.00 | 93  | 0.29 |
| Multi-Use Structure                              | Forklifts                 | 2 | 8.00 | 173 | 0.20 |
| Multi-Use Structure                              | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| Multi-Use Structure                              | Rough Terrain Forklifts   | 2 | 8.00 | 238 | 0.40 |
| Multi-Use Structure                              | Tractors/Loaders/Backhoes | 0 | 7.00 | 97  | 0.37 |
| Multi-Use Structure                              | Welders                   | 0 | 8.00 | 46  | 0.45 |
| Structural Concrete                              | Cement and Mortar Mixers  | 1 | 8.00 | 9   | 0.56 |
| Structural Concrete                              | Cranes                    | 1 | 8.00 | 231 | 0.29 |
| Structural Concrete                              | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Structural Concrete                              | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Structural Concrete                              | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Structural Concrete                              | Rough Terrain Forklifts   | 2 | 8.00 | 100 | 0.40 |
| Structural Concrete                              | Tractors/Loaders/Backhoes | 2 | 8.00 | 93  | 0.37 |
| Dry Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 127 | 0.37 |
| Dry Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 230 | 0.37 |
| Street Improvements - Balancing / Aggregate Base | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Street Improvements - Balancing / Aggregate Base | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Balancing / Aggregate Base | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Balancing / Aggregate Base | Rollers                   | 1 | 8.00 | 110 | 0.38 |

|                                                  |                           |   |      |     |      |
|--------------------------------------------------|---------------------------|---|------|-----|------|
| Street Improvements - Balancing / Aggregate Base | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Street Improvements - Balancing / Aggregate Base | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Street Improvements - Curb & Gutter              | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Curb & Gutter              | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Curb & Gutter              | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Asphalt Paving                                   | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Asphalt Paving                                   | Pavers                    | 1 | 8.00 | 173 | 0.42 |
| Asphalt Paving                                   | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Asphalt Paving                                   | Rollers                   | 1 | 8.00 | 110 | 0.38 |
| Street Improvements - Concrete Flatwork          | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Concrete Flatwork          | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Concrete Flatwork          | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Street Improvements - Concrete Flatwork          | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Architecural Coating                             | Air Compressors           | 1 | 6.00 | 78  | 0.48 |

### Trips and VMT

| Phase Name                              | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition                     | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul               | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition                      | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul                | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation                        | 3                       | 18.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading                           | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul                 | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Fine Grading                            | 1                       | 6.00               | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Parking Structure Excavation/Shoring/Ha | 4                       | 20.00              | 2.00               | 875.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                                                |   |        |       |      |       |      |       |        |         |      |
|------------------------------------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Wet Utility Installation                       | 5 | 34.00  | 4.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Multi-Use Structure                            | 7 | 120.00 | 85.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Structural Concrete                            | 6 | 40.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Dry Utility Installation                       | 2 | 18.00  | 2.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Balancing / Aggregate | 4 | 16.00  | 2.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Curb & Gutter         | 0 | 18.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Asphalt Paving                                 | 3 | 12.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Concrete Flatwork     | 1 | 16.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating                          | 1 | 24.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive<br>PM10 | Exhaust<br>PM10 | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5 | PM2.5<br>Total | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |                  |                 |               |                   |                  |                | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000           | 0.0000          | 0.0000        | 0.0000            | 0.0000           | 0.0000         |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |                  | 2.8698          | 2.8698        |                   | 2.6402           | 2.6402         |          | 8,552.7391        | 8,552.7391        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b>    | <b>2.8698</b>   | <b>2.8698</b> | <b>0.0000</b>     | <b>2.6402</b>    | <b>2.6402</b>  |          | <b>8,552.7391</b> | <b>8,552.7391</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0150        | 0.4539        | 0.1200        | 1.0000e-003        | 0.0256        | 3.0700e-003        | 0.0286        | 7.3500e-003    | 2.9300e-003        | 0.0103        |          | 109.1876        | 109.1876        | 9.2200e-003   |     | 109.4180        |
| Worker       | 0.1649        | 0.1081        | 1.4270        | 4.5200e-003        | 0.4471        | 2.9900e-003        | 0.4501        | 0.1186         | 2.7500e-003        | 0.1213        |          | 450.4561        | 450.4561        | 0.0111        |     | 450.7330        |
| <b>Total</b> | <b>0.1799</b> | <b>0.5620</b> | <b>1.5470</b> | <b>5.5200e-003</b> | <b>0.4727</b> | <b>6.0600e-003</b> | <b>0.4787</b> | <b>0.1259</b>  | <b>5.6800e-003</b> | <b>0.1316</b> |          | <b>559.6437</b> | <b>559.6437</b> | <b>0.0203</b> |     | <b>560.1510</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |               | 2.8698        | 2.8698        |                | 2.6402        | 2.6402        | 0.0000        | 8,552.7390        | 8,552.7390        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b> | <b>2.8698</b> | <b>2.8698</b> | <b>0.0000</b>  | <b>2.6402</b> | <b>2.6402</b> | <b>0.0000</b> | <b>8,552.7390</b> | <b>8,552.7390</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0150        | 0.4539        | 0.1200        | 1.0000e-003        | 0.0239        | 3.0700e-003        | 0.0270        | 6.9500e-003    | 2.9300e-003        | 9.8900e-003   |          | 109.1876        | 109.1876        | 9.2200e-003   |     | 109.4180        |
| Worker       | 0.1649        | 0.1081        | 1.4270        | 4.5200e-003        | 0.4121        | 2.9900e-003        | 0.4151        | 0.1100         | 2.7500e-003        | 0.1127        |          | 450.4561        | 450.4561        | 0.0111        |     | 450.7330        |
| <b>Total</b> | <b>0.1799</b> | <b>0.5620</b> | <b>1.5470</b> | <b>5.5200e-003</b> | <b>0.4360</b> | <b>6.0600e-003</b> | <b>0.4421</b> | <b>0.1169</b>  | <b>5.6800e-003</b> | <b>0.1226</b> |          | <b>559.6437</b> | <b>559.6437</b> | <b>0.0203</b> |     | <b>560.1510</b> |

### **3.3 Building Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 10.5736        | 0.0000        | 10.5736        | 1.6009         | 0.0000        | 1.6009        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>10.5736</b> | <b>0.1162</b> | <b>10.6898</b> | <b>1.6009</b>  | <b>0.1069</b> | <b>1.7079</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.4237        | 48.7649        | 12.2440        | 0.1374        | 3.2084        | 0.2054        | 3.4137        | 0.8782         | 0.1965        | 1.0747        |          | 15,279.1975        | 15,279.1975        | 1.5480        |     | 15,317.8976        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0124        | 8.1100e-003    | 0.1070         | 3.4000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 33.7842            | 33.7842            | 8.3000e-004   |     | 33.8050            |
| <b>Total</b> | <b>1.4360</b> | <b>48.7730</b> | <b>12.3511</b> | <b>0.1378</b> | <b>3.2419</b> | <b>0.2056</b> | <b>3.4475</b> | <b>0.8871</b>  | <b>0.1967</b> | <b>1.0838</b> |          | <b>15,312.9817</b> | <b>15,312.9817</b> | <b>1.5488</b> |     | <b>15,351.7025</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 4.5202        | 0.0000        | 4.5202        | 0.6844         | 0.0000        | 0.6844        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |               | 0.1162        | 0.1162        |                | 0.1069        | 0.1069        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>4.5202</b> | <b>0.1162</b> | <b>4.6364</b> | <b>0.6844</b>  | <b>0.1069</b> | <b>0.7913</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.4237        | 48.7649        | 12.2440        | 0.1374        | 2.9890        | 0.2054        | 3.1944        | 0.8244         | 0.1965        | 1.0208        |          | 15,279.1975        | 15,279.1975        | 1.5480        |     | 15,317.8976        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0124        | 8.1100e-003    | 0.1070         | 3.4000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 33.7842            | 33.7842            | 8.3000e-004   |     | 33.8050            |
| <b>Total</b> | <b>1.4360</b> | <b>48.7730</b> | <b>12.3511</b> | <b>0.1378</b> | <b>3.0199</b> | <b>0.2056</b> | <b>3.2255</b> | <b>0.8326</b>  | <b>0.1967</b> | <b>1.0293</b> |          | <b>15,312.9817</b> | <b>15,312.9817</b> | <b>1.5488</b> |     | <b>15,351.7025</b> |

### **3.4 Asphalt Demolition - 2019**

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0330        | 0.0216        | 0.2854        | 9.0000e-004        | 0.0894        | 6.0000e-004        | 0.0900        | 0.0237         | 5.5000e-004        | 0.0243        |          | 90.0912        | 90.0912        | 2.2100e-003        |     | 90.1466        |
| <b>Total</b> | <b>0.0330</b> | <b>0.0216</b> | <b>0.2854</b> | <b>9.0000e-004</b> | <b>0.0894</b> | <b>6.0000e-004</b> | <b>0.0900</b> | <b>0.0237</b>  | <b>5.5000e-004</b> | <b>0.0243</b> |          | <b>90.0912</b> | <b>90.0912</b> | <b>2.2100e-003</b> |     | <b>90.1466</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0330        | 0.0216        | 0.2854        | 9.0000e-004        | 0.0824        | 6.0000e-004        | 0.0830        | 0.0220         | 5.5000e-004        | 0.0226        |          | 90.0912        | 90.0912        | 2.2100e-003        |     | 90.1466        |
| <b>Total</b> | <b>0.0330</b> | <b>0.0216</b> | <b>0.2854</b> | <b>9.0000e-004</b> | <b>0.0824</b> | <b>6.0000e-004</b> | <b>0.0830</b> | <b>0.0220</b>  | <b>5.5000e-004</b> | <b>0.0226</b> |          | <b>90.0912</b> | <b>90.0912</b> | <b>2.2100e-003</b> |     | <b>90.1466</b> |

### **3.5 Asphalt Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 28.5320        | 0.0000        | 28.5320        | 4.3200         | 0.0000        | 4.3200        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>28.5320</b> | <b>0.1162</b> | <b>28.6482</b> | <b>4.3200</b>  | <b>0.1069</b> | <b>4.4269</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1685        | 7.2809        | 1.3940        | 0.0129        | 0.2095        | 0.0165        | 0.2260        | 0.0574         | 0.0158        | 0.0732        |          | 1,427.5207        | 1,427.5207        | 0.1789        |     | 1,431.9931        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0124        | 8.1100e-003   | 0.1070        | 3.4000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 33.7842           | 33.7842           | 8.3000e-004   |     | 33.8050           |
| <b>Total</b> | <b>0.1809</b> | <b>7.2890</b> | <b>1.5011</b> | <b>0.0132</b> | <b>0.2430</b> | <b>0.0167</b> | <b>0.2597</b> | <b>0.0663</b>  | <b>0.0160</b> | <b>0.0823</b> |          | <b>1,461.3049</b> | <b>1,461.3049</b> | <b>0.1797</b> |     | <b>1,465.7981</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 12.1974        | 0.0000        | 12.1974        | 1.8468         | 0.0000        | 1.8468        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>12.1974</b> | <b>0.1162</b> | <b>12.3136</b> | <b>1.8468</b>  | <b>0.1069</b> | <b>1.9537</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1685        | 7.2809        | 1.3940        | 0.0129        | 0.1953        | 0.0165        | 0.2117        | 0.0539         | 0.0158        | 0.0697        |          | 1,427.5207        | 1,427.5207        | 0.1789        |     | 1,431.9931        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0124        | 8.1100e-003   | 0.1070        | 3.4000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 33.7842           | 33.7842           | 8.3000e-004   |     | 33.8050           |
| <b>Total</b> | <b>0.1809</b> | <b>7.2890</b> | <b>1.5011</b> | <b>0.0132</b> | <b>0.2262</b> | <b>0.0167</b> | <b>0.2428</b> | <b>0.0622</b>  | <b>0.0160</b> | <b>0.0781</b> |          | <b>1,461.3049</b> | <b>1,461.3049</b> | <b>0.1797</b> |     | <b>1,465.7981</b> |

### **3.6 Site Preparation - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.0221        | 0.0000        | 6.0221        | 3.3102         | 0.0000        | 3.3102        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        |               | 1.0051        | 1.0051        |                | 0.9247        | 0.9247        |          | 2,888.4333        | 2,888.4333        | 0.9139        |     | 2,911.2801        |
| <b>Total</b>  | <b>2.1723</b> | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b> | <b>6.0221</b> | <b>1.0051</b> | <b>7.0272</b> | <b>3.3102</b>  | <b>0.9247</b> | <b>4.2350</b> |          | <b>2,888.4333</b> | <b>2,888.4333</b> | <b>0.9139</b> |     | <b>2,911.2801</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.5000e-003   | 0.2270        | 0.0600        | 5.0000e-004        | 0.0128        | 1.5300e-003        | 0.0143        | 3.6800e-003    | 1.4700e-003        | 5.1400e-003   |          | 54.5938         | 54.5938         | 4.6100e-003        |     | 54.7090         |
| Worker       | 0.0742        | 0.0486        | 0.6421        | 2.0300e-003        | 0.2012        | 1.3400e-003        | 0.2025        | 0.0534         | 1.2400e-003        | 0.0546        |          | 202.7053        | 202.7053        | 4.9800e-003        |     | 202.8298        |
| <b>Total</b> | <b>0.0817</b> | <b>0.2756</b> | <b>0.7021</b> | <b>2.5300e-003</b> | <b>0.2140</b> | <b>2.8700e-003</b> | <b>0.2169</b> | <b>0.0570</b>  | <b>2.7100e-003</b> | <b>0.0597</b> |          | <b>257.2990</b> | <b>257.2990</b> | <b>9.5900e-003</b> |     | <b>257.5388</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.5744        | 0.0000        | 2.5744        | 1.4151         | 0.0000        | 1.4151        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        |               | 1.0051        | 1.0051        |                | 0.9247        | 0.9247        | 0.0000        | 2,888.4333        | 2,888.4333        | 0.9139        |     | 2,911.2801        |
| <b>Total</b>  | <b>2.1723</b> | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b> | <b>2.5744</b> | <b>1.0051</b> | <b>3.5796</b> | <b>1.4151</b>  | <b>0.9247</b> | <b>2.3399</b> | <b>0.0000</b> | <b>2,888.4333</b> | <b>2,888.4333</b> | <b>0.9139</b> |     | <b>2,911.2801</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.5000e-003   | 0.2270        | 0.0600        | 5.0000e-004        | 0.0120        | 1.5300e-003        | 0.0135        | 3.4800e-003    | 1.4700e-003        | 4.9400e-003   |          | 54.5938         | 54.5938         | 4.6100e-003        |     | 54.7090         |
| Worker       | 0.0742        | 0.0486        | 0.6421        | 2.0300e-003        | 0.1855        | 1.3400e-003        | 0.1868        | 0.0495         | 1.2400e-003        | 0.0507        |          | 202.7053        | 202.7053        | 4.9800e-003        |     | 202.8298        |
| <b>Total</b> | <b>0.0817</b> | <b>0.2756</b> | <b>0.7021</b> | <b>2.5300e-003</b> | <b>0.1974</b> | <b>2.8700e-003</b> | <b>0.2003</b> | <b>0.0530</b>  | <b>2.7100e-003</b> | <b>0.0557</b> |          | <b>257.2990</b> | <b>257.2990</b> | <b>9.5900e-003</b> |     | <b>257.5388</b> |

### **3.7 Rough Grading - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.6408        | 58.1082        | 30.1801        | 0.0536        |               | 2.2074        | 2.2074        |                | 2.0308        | 2.0308        |          | 5,306.6555        | 5,306.6555        | 1.6790        |     | 5,348.6297        |
| <b>Total</b>  | <b>4.6408</b> | <b>58.1082</b> | <b>30.1801</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.2074</b> | <b>9.8202</b> | <b>3.4820</b>  | <b>2.0308</b> | <b>5.5128</b> |          | <b>5,306.6555</b> | <b>5,306.6555</b> | <b>1.6790</b> |     | <b>5,348.6297</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.5000e-003   | 0.2270        | 0.0600        | 5.0000e-004        | 0.0128        | 1.5300e-003        | 0.0143        | 3.6800e-003    | 1.4700e-003        | 5.1400e-003   |          | 54.5938         | 54.5938         | 4.6100e-003        |     | 54.7090         |
| Worker       | 0.0659        | 0.0432        | 0.5708        | 1.8100e-003        | 0.1788        | 1.1900e-003        | 0.1800        | 0.0474         | 1.1000e-003        | 0.0485        |          | 180.1825        | 180.1825        | 4.4300e-003        |     | 180.2932        |
| <b>Total</b> | <b>0.0734</b> | <b>0.2702</b> | <b>0.6308</b> | <b>2.3100e-003</b> | <b>0.1916</b> | <b>2.7200e-003</b> | <b>0.1944</b> | <b>0.0511</b>  | <b>2.5700e-003</b> | <b>0.0537</b> |          | <b>234.7762</b> | <b>234.7762</b> | <b>9.0400e-003</b> |     | <b>235.0022</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.6408        | 58.1082        | 30.1801        | 0.0536        |               | 2.2074        | 2.2074        |                | 2.0308        | 2.0308        | 0.0000        | 5,306.6555        | 5,306.6555        | 1.6790        |     | 5,348.6297        |
| <b>Total</b>  | <b>4.6408</b> | <b>58.1082</b> | <b>30.1801</b> | <b>0.0536</b> | <b>3.2545</b> | <b>2.2074</b> | <b>5.4619</b> | <b>1.4886</b>  | <b>2.0308</b> | <b>3.5194</b> | <b>0.0000</b> | <b>5,306.6555</b> | <b>5,306.6555</b> | <b>1.6790</b> |     | <b>5,348.6297</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.5000e-003   | 0.2270        | 0.0600        | 5.0000e-004        | 0.0120        | 1.5300e-003        | 0.0135        | 3.4800e-003    | 1.4700e-003        | 4.9400e-003   |          | 54.5938         | 54.5938         | 4.6100e-003        |     | 54.7090         |
| Worker       | 0.0659        | 0.0432        | 0.5708        | 1.8100e-003        | 0.1649        | 1.1900e-003        | 0.1660        | 0.0440         | 1.1000e-003        | 0.0451        |          | 180.1825        | 180.1825        | 4.4300e-003        |     | 180.2932        |
| <b>Total</b> | <b>0.0734</b> | <b>0.2702</b> | <b>0.6308</b> | <b>2.3100e-003</b> | <b>0.1768</b> | <b>2.7200e-003</b> | <b>0.1795</b> | <b>0.0475</b>  | <b>2.5700e-003</b> | <b>0.0500</b> |          | <b>234.7762</b> | <b>234.7762</b> | <b>9.0400e-003</b> |     | <b>235.0022</b> |

### **3.7 Rough Grading - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        |          | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.1004</b> | <b>9.7132</b> | <b>3.4820</b>  | <b>1.9324</b> | <b>5.4143</b> |          | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0128        | 1.0900e-003        | 0.0139        | 3.6800e-003    | 1.0400e-003        | 4.7200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1916</b> | <b>2.2700e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1300e-003</b> | <b>0.0532</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        | 0.0000        | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>3.2545</b> | <b>2.1004</b> | <b>5.3549</b> | <b>1.4886</b>  | <b>1.9324</b> | <b>3.4209</b> | <b>0.0000</b> | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0120        | 1.0900e-003        | 0.0130        | 3.4800e-003    | 1.0400e-003        | 4.5200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1768</b> | <b>2.2700e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1300e-003</b> | <b>0.0496</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### **3.8 Rough Grading Soil Haul - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx             | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                 |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 4.0626        | 147.9334        | 37.3790        | 0.4118        | 9.3675        | 0.4790        | 9.8464        | 2.5644         | 0.4582        | 3.0226        |          | 45,894.5144        | 45,894.5144        | 4.7573        |     | 46,013.4473        |
| Vendor       | 0.0000        | 0.0000          | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003     | 0.0982         | 3.3000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>4.0741</b> | <b>147.9407</b> | <b>37.4772</b> | <b>0.4121</b> | <b>9.4010</b> | <b>0.4792</b> | <b>9.8802</b> | <b>2.5732</b>  | <b>0.4584</b> | <b>3.0317</b> |          | <b>45,927.2157</b> | <b>45,927.2157</b> | <b>4.7581</b> |     | <b>46,046.1673</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx             | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                 |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 4.0626        | 147.9334        | 37.3790        | 0.4118        | 8.7273        | 0.4790        | 9.2063        | 2.4072         | 0.4582        | 2.8654        |          | 45,894.5144        | 45,894.5144        | 4.7573        |     | 46,013.4473        |
| Vendor       | 0.0000        | 0.0000          | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003     | 0.0982         | 3.3000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>4.0741</b> | <b>147.9407</b> | <b>37.4772</b> | <b>0.4121</b> | <b>8.7582</b> | <b>0.4792</b> | <b>9.2374</b> | <b>2.4155</b>  | <b>0.4584</b> | <b>2.8739</b> |          | <b>45,927.2157</b> | <b>45,927.2157</b> | <b>4.7581</b> |     | <b>46,046.1673</b> |

### 3.9 Fine Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.4400e-003        |               | 0.2574        | 0.2574        |                | 0.2368        | 0.2368        |          | 818.0056        | 818.0056        | 0.2646        |     | 824.6196        |
| <b>Total</b>  | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.4400e-003</b> | <b>0.5303</b> | <b>0.2574</b> | <b>0.7876</b> | <b>0.0573</b>  | <b>0.2368</b> | <b>0.2940</b> |          | <b>818.0056</b> | <b>818.0056</b> | <b>0.2646</b> |     | <b>824.6196</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0128        | 1.0900e-003        | 0.0139        | 3.6800e-003    | 1.0400e-003        | 4.7200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0231        | 0.0145        | 0.1964        | 6.6000e-004        | 0.0671        | 4.4000e-004        | 0.0675        | 0.0178         | 4.1000e-004        | 0.0182        |          | 65.4026         | 65.4026         | 1.4900e-003        |     | 65.4399         |
| <b>Total</b> | <b>0.0295</b> | <b>0.2229</b> | <b>0.2514</b> | <b>1.1600e-003</b> | <b>0.0799</b> | <b>1.5300e-003</b> | <b>0.0814</b> | <b>0.0215</b>  | <b>1.4500e-003</b> | <b>0.0229</b> |          | <b>119.6284</b> | <b>119.6284</b> | <b>5.8800e-003</b> |     | <b>119.7753</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.2267        | 0.0000        | 0.2267        | 0.0245         | 0.0000        | 0.0245        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.4400e-003        |               | 0.2574        | 0.2574        |                | 0.2368        | 0.2368        | 0.0000        | 818.0056        | 818.0056        | 0.2646        |     | 824.6196        |
| <b>Total</b>  | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.4400e-003</b> | <b>0.2267</b> | <b>0.2574</b> | <b>0.4841</b> | <b>0.0245</b>  | <b>0.2368</b> | <b>0.2613</b> | <b>0.0000</b> | <b>818.0056</b> | <b>818.0056</b> | <b>0.2646</b> |     | <b>824.6196</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0120        | 1.0900e-003        | 0.0130        | 3.4800e-003    | 1.0400e-003        | 4.5200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0231        | 0.0145        | 0.1964        | 6.6000e-004        | 0.0618        | 4.4000e-004        | 0.0623        | 0.0165         | 4.1000e-004        | 0.0169        |          | 65.4026         | 65.4026         | 1.4900e-003        |     | 65.4399         |
| <b>Total</b> | <b>0.0295</b> | <b>0.2229</b> | <b>0.2514</b> | <b>1.1600e-003</b> | <b>0.0738</b> | <b>1.5300e-003</b> | <b>0.0753</b> | <b>0.0200</b>  | <b>1.4500e-003</b> | <b>0.0214</b> |          | <b>119.6284</b> | <b>119.6284</b> | <b>5.8800e-003</b> |     | <b>119.7753</b> |

### **3.10 Parking Structure Excavation/Shoring/Hauling - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |               |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.5283        | 17.6714        | 9.5863        | 0.0358        |               | 0.6156        | 0.6156        |                | 0.5664        | 0.5664        |          | 3,464.9274        | 3,464.9274        | 1.1206        |     | 3,492.9431        |
| <b>Total</b>  | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b> | <b>0.0358</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>0.0000</b>  | <b>0.5664</b> | <b>0.5664</b> |          | <b>3,464.9274</b> | <b>3,464.9274</b> | <b>1.1206</b> |     | <b>3,492.9431</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.6607        | 24.0598        | 6.0793        | 0.0670        | 1.5235        | 0.0779        | 1.6014        | 0.4171         | 0.0745        | 0.4916        |          | 7,464.2565        | 7,464.2565        | 0.7737        |     | 7,483.5997        |
| Vendor       | 6.3900e-003   | 0.2084         | 0.0550        | 5.0000e-004   | 0.0128        | 1.0900e-003   | 0.0139        | 3.6800e-003    | 1.0400e-003   | 4.7200e-003   |          | 54.2258           | 54.2258           | 4.3900e-003   |     | 54.3354           |
| Worker       | 0.0769        | 0.0484         | 0.6547        | 2.1900e-003   | 0.2236        | 1.4800e-003   | 0.2250        | 0.0593         | 1.3600e-003   | 0.0607        |          | 218.0087          | 218.0087          | 4.9700e-003   |     | 218.1330          |
| <b>Total</b> | <b>0.7440</b> | <b>24.3166</b> | <b>6.7889</b> | <b>0.0697</b> | <b>1.7599</b> | <b>0.0805</b> | <b>1.8403</b> | <b>0.4800</b>  | <b>0.0769</b> | <b>0.5570</b> |          | <b>7,736.4910</b> | <b>7,736.4910</b> | <b>0.7831</b> |     | <b>7,756.0681</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |               |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.5283        | 17.6714        | 9.5863        | 0.0358        |               | 0.6156        | 0.6156        |                | 0.5664        | 0.5664        | 0.0000        | 3,464.9274        | 3,464.9274        | 1.1206        |     | 3,492.9431        |
| <b>Total</b>  | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b> | <b>0.0358</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>0.0000</b>  | <b>0.5664</b> | <b>0.5664</b> | <b>0.0000</b> | <b>3,464.9274</b> | <b>3,464.9274</b> | <b>1.1206</b> |     | <b>3,492.9431</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.6607        | 24.0598        | 6.0793        | 0.0670        | 1.4194        | 0.0779        | 1.4973        | 0.3915         | 0.0745        | 0.4660        |          | 7,464.2565        | 7,464.2565        | 0.7737        |     | 7,483.5997        |
| Vendor       | 6.3900e-003   | 0.2084         | 0.0550        | 5.0000e-004   | 0.0120        | 1.0900e-003   | 0.0130        | 3.4800e-003    | 1.0400e-003   | 4.5200e-003   |          | 54.2258           | 54.2258           | 4.3900e-003   |     | 54.3354           |
| Worker       | 0.0769        | 0.0484         | 0.6547        | 2.1900e-003   | 0.2061        | 1.4800e-003   | 0.2075        | 0.0550         | 1.3600e-003   | 0.0564        |          | 218.0087          | 218.0087          | 4.9700e-003   |     | 218.1330          |
| <b>Total</b> | <b>0.7440</b> | <b>24.3166</b> | <b>6.7889</b> | <b>0.0697</b> | <b>1.6374</b> | <b>0.0805</b> | <b>1.7179</b> | <b>0.4500</b>  | <b>0.0769</b> | <b>0.5269</b> |          | <b>7,736.4910</b> | <b>7,736.4910</b> | <b>0.7831</b> |     | <b>7,756.0681</b> |

### **3.11 Wet Utility Installation - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4938        | 16.5585        | 10.2054        | 0.0371        |               | 0.6055        | 0.6055        |                | 0.5570        | 0.5570        |          | 3,591.8860        | 3,591.8860        | 1.1617        |     | 3,620.9282        |
| <b>Total</b> | <b>1.4938</b> | <b>16.5585</b> | <b>10.2054</b> | <b>0.0371</b> |               | <b>0.6055</b> | <b>0.6055</b> |                | <b>0.5570</b> | <b>0.5570</b> |          | <b>3,591.8860</b> | <b>3,591.8860</b> | <b>1.1617</b> |     | <b>3,620.9282</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0128        | 0.4167        | 0.1100        | 1.0000e-003        | 0.0256        | 2.1700e-003        | 0.0277        | 7.3500e-003    | 2.0800e-003        | 9.4300e-003   |          | 108.4516        | 108.4516        | 8.7700e-003   |     | 108.6709        |
| Worker       | 0.1307        | 0.0823        | 1.1129        | 3.7200e-003        | 0.3800        | 2.5100e-003        | 0.3826        | 0.1008         | 2.3100e-003        | 0.1031        |          | 370.6148        | 370.6148        | 8.4500e-003   |     | 370.8260        |
| <b>Total</b> | <b>0.1434</b> | <b>0.4990</b> | <b>1.2229</b> | <b>4.7200e-003</b> | <b>0.4056</b> | <b>4.6800e-003</b> | <b>0.4103</b> | <b>0.1081</b>  | <b>4.3900e-003</b> | <b>0.1125</b> |          | <b>479.0664</b> | <b>479.0664</b> | <b>0.0172</b> |     | <b>479.4969</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4938        | 16.5585        | 10.2054        | 0.0371        |               | 0.6055        | 0.6055        |                | 0.5570        | 0.5570        | 0.0000        | 3,591.8860        | 3,591.8860        | 1.1617        |     | 3,620.9282        |
| <b>Total</b> | <b>1.4938</b> | <b>16.5585</b> | <b>10.2054</b> | <b>0.0371</b> |               | <b>0.6055</b> | <b>0.6055</b> |                | <b>0.5570</b> | <b>0.5570</b> | <b>0.0000</b> | <b>3,591.8860</b> | <b>3,591.8860</b> | <b>1.1617</b> |     | <b>3,620.9282</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0128        | 0.4167        | 0.1100        | 1.0000e-003        | 0.0239        | 2.1700e-003        | 0.0261        | 6.9500e-003    | 2.0800e-003        | 9.0300e-003   |          | 108.4516        | 108.4516        | 8.7700e-003   |     | 108.6709        |
| Worker       | 0.1307        | 0.0823        | 1.1129        | 3.7200e-003        | 0.3503        | 2.5100e-003        | 0.3528        | 0.0935         | 2.3100e-003        | 0.0958        |          | 370.6148        | 370.6148        | 8.4500e-003   |     | 370.8260        |
| <b>Total</b> | <b>0.1434</b> | <b>0.4990</b> | <b>1.2229</b> | <b>4.7200e-003</b> | <b>0.3742</b> | <b>4.6800e-003</b> | <b>0.3789</b> | <b>0.1004</b>  | <b>4.3900e-003</b> | <b>0.1048</b> |          | <b>479.0664</b> | <b>479.0664</b> | <b>0.0172</b> |     | <b>479.4969</b> |

### **3.12 Multi-Use Structure - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.8952        | 19.1157        | 13.5663        | 0.0297        |               | 1.0279        | 1.0279        |                | 0.9457        | 0.9457        |          | 2,874.4965        | 2,874.4965        | 0.9297        |     | 2,897.7382        |
| <b>Total</b> | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>0.0297</b> |               | <b>1.0279</b> | <b>1.0279</b> |                | <b>0.9457</b> | <b>0.9457</b> |          | <b>2,874.4965</b> | <b>2,874.4965</b> | <b>0.9297</b> |     | <b>2,897.7382</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2715        | 8.8551        | 2.3372        | 0.0212        | 0.5431        | 0.0462        | 0.5893        | 0.1563         | 0.0442        | 0.2005        |          | 2,304.5959        | 2,304.5959        | 0.1864        |     | 2,309.2557        |
| Worker       | 0.4612        | 0.2905        | 3.9279        | 0.0131        | 1.3413        | 8.8700e-003   | 1.3502        | 0.3557         | 8.1700e-003   | 0.3639        |          | 1,308.0523        | 1,308.0523        | 0.0298        |     | 1,308.7978        |
| <b>Total</b> | <b>0.7327</b> | <b>9.1456</b> | <b>6.2651</b> | <b>0.0343</b> | <b>1.8844</b> | <b>0.0551</b> | <b>1.9395</b> | <b>0.5120</b>  | <b>0.0524</b> | <b>0.5644</b> |          | <b>3,612.6483</b> | <b>3,612.6483</b> | <b>0.2162</b> |     | <b>3,618.0535</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.8952        | 19.1157        | 13.5663        | 0.0297        |               | 1.0279        | 1.0279        |                | 0.9457        | 0.9457        | 0.0000        | 2,874.4964        | 2,874.4964        | 0.9297        |     | 2,897.7382        |
| <b>Total</b> | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>0.0297</b> |               | <b>1.0279</b> | <b>1.0279</b> |                | <b>0.9457</b> | <b>0.9457</b> | <b>0.0000</b> | <b>2,874.4964</b> | <b>2,874.4964</b> | <b>0.9297</b> |     | <b>2,897.7382</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2715        | 8.8551        | 2.3372        | 0.0212        | 0.5082        | 0.0462        | 0.5544        | 0.1477         | 0.0442        | 0.1919        |          | 2,304.5959        | 2,304.5959        | 0.1864        |     | 2,309.2557        |
| Worker       | 0.4612        | 0.2905        | 3.9279        | 0.0131        | 1.2364        | 8.8700e-003   | 1.2452        | 0.3300         | 8.1700e-003   | 0.3381        |          | 1,308.0523        | 1,308.0523        | 0.0298        |     | 1,308.7978        |
| <b>Total</b> | <b>0.7327</b> | <b>9.1456</b> | <b>6.2651</b> | <b>0.0343</b> | <b>1.7446</b> | <b>0.0551</b> | <b>1.7996</b> | <b>0.4777</b>  | <b>0.0524</b> | <b>0.5301</b> |          | <b>3,612.6483</b> | <b>3,612.6483</b> | <b>0.2162</b> |     | <b>3,618.0535</b> |

### **3.12 Multi-Use Structure - 2021**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7486        | 17.6537        | 13.4017        | 0.0297        |               | 0.9192        | 0.9192        |                | 0.8456        | 0.8456        |          | 2,874.4354        | 2,874.4354        | 0.9297        |     | 2,897.6767        |
| <b>Total</b> | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>0.0297</b> |               | <b>0.9192</b> | <b>0.9192</b> |                | <b>0.8456</b> | <b>0.8456</b> |          | <b>2,874.4354</b> | <b>2,874.4354</b> | <b>0.9297</b> |     | <b>2,897.6767</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2268        | 7.9742        | 2.1626        | 0.0210        | 0.5431        | 0.0166        | 0.5596        | 0.1563         | 0.0158        | 0.1721        |          | 2,284.7363        | 2,284.7363        | 0.1792        |     | 2,289.2151        |
| Worker       | 0.4331        | 0.2621        | 3.6448        | 0.0127        | 1.3413        | 8.6800e-003   | 1.3500        | 0.3557         | 7.9900e-003   | 0.3637        |          | 1,262.6330        | 1,262.6330        | 0.0270        |     | 1,263.3089        |
| <b>Total</b> | <b>0.6599</b> | <b>8.2363</b> | <b>5.8074</b> | <b>0.0336</b> | <b>1.8844</b> | <b>0.0252</b> | <b>1.9096</b> | <b>0.5120</b>  | <b>0.0238</b> | <b>0.5358</b> |          | <b>3,547.3693</b> | <b>3,547.3693</b> | <b>0.2062</b> |     | <b>3,552.5241</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7486        | 17.6537        | 13.4017        | 0.0297        |               | 0.9192        | 0.9192        |                | 0.8456        | 0.8456        | 0.0000        | 2,874.4354        | 2,874.4354        | 0.9297        |     | 2,897.6767        |
| <b>Total</b> | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>0.0297</b> |               | <b>0.9192</b> | <b>0.9192</b> |                | <b>0.8456</b> | <b>0.8456</b> | <b>0.0000</b> | <b>2,874.4354</b> | <b>2,874.4354</b> | <b>0.9297</b> |     | <b>2,897.6767</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2268        | 7.9742        | 2.1626        | 0.0210        | 0.5082        | 0.0166        | 0.5247        | 0.1477         | 0.0158        | 0.1636        |          | 2,284.7363        | 2,284.7363        | 0.1792        |     | 2,289.2151        |
| Worker       | 0.4331        | 0.2621        | 3.6448        | 0.0127        | 1.2364        | 8.6800e-003   | 1.2451        | 0.3300         | 7.9900e-003   | 0.3380        |          | 1,262.6330        | 1,262.6330        | 0.0270        |     | 1,263.3089        |
| <b>Total</b> | <b>0.6599</b> | <b>8.2363</b> | <b>5.8074</b> | <b>0.0336</b> | <b>1.7446</b> | <b>0.0252</b> | <b>1.7698</b> | <b>0.4777</b>  | <b>0.0238</b> | <b>0.5015</b> |          | <b>3,547.3693</b> | <b>3,547.3693</b> | <b>0.2062</b> |     | <b>3,552.5241</b> |

### 3.12 Multi-Use Structure - 2022

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6052        | 16.2515        | 13.2378        | 0.0297        |               | 0.8099        | 0.8099        |                | 0.7451        | 0.7451        |          | 2,874.5760        | 2,874.5760        | 0.9297        |     | 2,897.8184        |
| <b>Total</b> | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>0.0297</b> |               | <b>0.8099</b> | <b>0.8099</b> |                | <b>0.7451</b> | <b>0.7451</b> |          | <b>2,874.5760</b> | <b>2,874.5760</b> | <b>0.9297</b> |     | <b>2,897.8184</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2132        | 7.5442        | 2.0882        | 0.0207        | 0.5431        | 0.0144        | 0.5575        | 0.1563         | 0.0138        | 0.1701        |          | 2,262.2972        | 2,262.2972        | 0.1735        |     | 2,266.6358        |
| Worker       | 0.4093        | 0.2374        | 3.4017        | 0.0122        | 1.3413        | 8.5100e-003   | 1.3498        | 0.3557         | 7.8400e-003   | 0.3636        |          | 1,215.8415        | 1,215.8415        | 0.0246        |     | 1,216.4554        |
| <b>Total</b> | <b>0.6226</b> | <b>7.7816</b> | <b>5.4899</b> | <b>0.0329</b> | <b>1.8844</b> | <b>0.0229</b> | <b>1.9073</b> | <b>0.5120</b>  | <b>0.0216</b> | <b>0.5336</b> |          | <b>3,478.1387</b> | <b>3,478.1387</b> | <b>0.1981</b> |     | <b>3,483.0912</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6052        | 16.2515        | 13.2378        | 0.0297        |               | 0.8099        | 0.8099        |                | 0.7451        | 0.7451        | 0.0000        | 2,874.5760        | 2,874.5760        | 0.9297        |     | 2,897.8184        |
| <b>Total</b> | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>0.0297</b> |               | <b>0.8099</b> | <b>0.8099</b> |                | <b>0.7451</b> | <b>0.7451</b> | <b>0.0000</b> | <b>2,874.5760</b> | <b>2,874.5760</b> | <b>0.9297</b> |     | <b>2,897.8184</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2132        | 7.5442        | 2.0882        | 0.0207        | 0.5082        | 0.0144        | 0.5226        | 0.1477         | 0.0138        | 0.1615        |          | 2,262.2972        | 2,262.2972        | 0.1735        |     | 2,266.6358        |
| Worker       | 0.4093        | 0.2374        | 3.4017        | 0.0122        | 1.2364        | 8.5100e-003   | 1.2449        | 0.3300         | 7.8400e-003   | 0.3378        |          | 1,215.8415        | 1,215.8415        | 0.0246        |     | 1,216.4554        |
| <b>Total</b> | <b>0.6226</b> | <b>7.7816</b> | <b>5.4899</b> | <b>0.0329</b> | <b>1.7445</b> | <b>0.0229</b> | <b>1.7675</b> | <b>0.4777</b>  | <b>0.0216</b> | <b>0.4993</b> |          | <b>3,478.1387</b> | <b>3,478.1387</b> | <b>0.1981</b> |     | <b>3,483.0912</b> |

### 3.12 Multi-Use Structure - 2023

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5206        | 14.9076        | 13.1767        | 0.0297        |               | 0.7390        | 0.7390        |                | 0.6799        | 0.6799        |          | 2,875.2167        | 2,875.2167        | 0.9299        |     | 2,898.4643        |
| <b>Total</b> | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>0.0297</b> |               | <b>0.7390</b> | <b>0.7390</b> |                | <b>0.6799</b> | <b>0.6799</b> |          | <b>2,875.2167</b> | <b>2,875.2167</b> | <b>0.9299</b> |     | <b>2,898.4643</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1623        | 5.6940        | 1.9490        | 0.0201        | 0.5431        | 6.8500e-003   | 0.5499        | 0.1563         | 6.5500e-003   | 0.1628        |          | 2,193.5657        | 2,193.5657        | 0.1613        |     | 2,197.5990        |
| Worker       | 0.3877        | 0.2156        | 3.1724        | 0.0117        | 1.3413        | 8.3700e-003   | 1.3497        | 0.3557         | 7.7000e-003   | 0.3634        |          | 1,169.0994        | 1,169.0994        | 0.0223        |     | 1,169.6562        |
| <b>Total</b> | <b>0.5500</b> | <b>5.9096</b> | <b>5.1214</b> | <b>0.0318</b> | <b>1.8844</b> | <b>0.0152</b> | <b>1.8996</b> | <b>0.5120</b>  | <b>0.0143</b> | <b>0.5263</b> |          | <b>3,362.6651</b> | <b>3,362.6651</b> | <b>0.1836</b> |     | <b>3,367.2553</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5206        | 14.9076        | 13.1767        | 0.0297        |               | 0.7390        | 0.7390        |                | 0.6799        | 0.6799        | 0.0000        | 2,875.2167        | 2,875.2167        | 0.9299        |     | 2,898.4643        |
| <b>Total</b> | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>0.0297</b> |               | <b>0.7390</b> | <b>0.7390</b> |                | <b>0.6799</b> | <b>0.6799</b> | <b>0.0000</b> | <b>2,875.2167</b> | <b>2,875.2167</b> | <b>0.9299</b> |     | <b>2,898.4643</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1623        | 5.6940        | 1.9490        | 0.0201        | 0.5082        | 6.8500e-003   | 0.5150        | 0.1477         | 6.5500e-003   | 0.1543        |          | 2,193.5657        | 2,193.5657        | 0.1613        |     | 2,197.5990        |
| Worker       | 0.3877        | 0.2156        | 3.1724        | 0.0117        | 1.2364        | 8.3700e-003   | 1.2447        | 0.3300         | 7.7000e-003   | 0.3377        |          | 1,169.0994        | 1,169.0994        | 0.0223        |     | 1,169.6562        |
| <b>Total</b> | <b>0.5500</b> | <b>5.9096</b> | <b>5.1214</b> | <b>0.0318</b> | <b>1.7445</b> | <b>0.0152</b> | <b>1.7598</b> | <b>0.4777</b>  | <b>0.0143</b> | <b>0.4919</b> |          | <b>3,362.6651</b> | <b>3,362.6651</b> | <b>0.1836</b> |     | <b>3,367.2553</b> |

### **3.13 Structural Concrete - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.1809        | 13.2563        | 11.3889        | 0.0193        |               | 0.6366        | 0.6366        |                | 0.5868        | 0.5868        |          | 1,853.3983        | 1,853.3983        | 0.5883        |     | 1,868.1067        |
| Paving       | 4.7600e-003   |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b> |               | <b>0.6366</b> | <b>0.6366</b> |                | <b>0.5868</b> | <b>0.5868</b> |          | <b>1,853.3983</b> | <b>1,853.3983</b> | <b>0.5883</b> |     | <b>1,868.1067</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1537        | 0.0968        | 1.3093        | 4.3700e-003        | 0.4471        | 2.9600e-003        | 0.4501        | 0.1186         | 2.7200e-003        | 0.1213        |          | 436.0174        | 436.0174        | 9.9400e-003        |     | 436.2659        |
| <b>Total</b> | <b>0.1537</b> | <b>0.0968</b> | <b>1.3093</b> | <b>4.3700e-003</b> | <b>0.4471</b> | <b>2.9600e-003</b> | <b>0.4501</b> | <b>0.1186</b>  | <b>2.7200e-003</b> | <b>0.1213</b> |          | <b>436.0174</b> | <b>436.0174</b> | <b>9.9400e-003</b> |     | <b>436.2659</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.1809        | 13.2563        | 11.3889        | 0.0193        |               | 0.6366        | 0.6366        |                | 0.5868        | 0.5868        | 0.0000        | 1,853.3983        | 1,853.3983        | 0.5883        |     | 1,868.1067        |
| Paving       | 4.7600e-003   |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b> |               | <b>0.6366</b> | <b>0.6366</b> |                | <b>0.5868</b> | <b>0.5868</b> | <b>0.0000</b> | <b>1,853.3983</b> | <b>1,853.3983</b> | <b>0.5883</b> |     | <b>1,868.1067</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1537        | 0.0968        | 1.3093        | 4.3700e-003        | 0.4121        | 2.9600e-003        | 0.4151        | 0.1100         | 2.7200e-003        | 0.1127        |          | 436.0174        | 436.0174        | 9.9400e-003        |     | 436.2659        |
| <b>Total</b> | <b>0.1537</b> | <b>0.0968</b> | <b>1.3093</b> | <b>4.3700e-003</b> | <b>0.4121</b> | <b>2.9600e-003</b> | <b>0.4151</b> | <b>0.1100</b>  | <b>2.7200e-003</b> | <b>0.1127</b> |          | <b>436.0174</b> | <b>436.0174</b> | <b>9.9400e-003</b> |     | <b>436.2659</b> |

### 3.14 Dry Utility Installation - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.5415        | 6.1106        | 4.3684        | 0.0113        |               | 0.2356        | 0.2356        |                | 0.2168        | 0.2168        |          | 1,093.6335        | 1,093.6335        | 0.3537        |     | 1,102.4761        |
| <b>Total</b> | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>0.0113</b> |               | <b>0.2356</b> | <b>0.2356</b> |                | <b>0.2168</b> | <b>0.2168</b> |          | <b>1,093.6335</b> | <b>1,093.6335</b> | <b>0.3537</b> |     | <b>1,102.4761</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0128        | 1.0900e-003        | 0.0139        | 3.6800e-003    | 1.0400e-003        | 4.7200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0692        | 0.0436        | 0.5892        | 1.9700e-003        | 0.2012        | 1.3300e-003        | 0.2025        | 0.0534         | 1.2300e-003        | 0.0546        |          | 196.2079        | 196.2079        | 4.4700e-003        |     | 196.3197        |
| <b>Total</b> | <b>0.0756</b> | <b>0.2519</b> | <b>0.6442</b> | <b>2.4700e-003</b> | <b>0.2140</b> | <b>2.4200e-003</b> | <b>0.2164</b> | <b>0.0570</b>  | <b>2.2700e-003</b> | <b>0.0593</b> |          | <b>250.4336</b> | <b>250.4336</b> | <b>8.8600e-003</b> |     | <b>250.6551</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.5415        | 6.1106        | 4.3684        | 0.0113        |               | 0.2356        | 0.2356        |                | 0.2168        | 0.2168        | 0.0000        | 1,093.6335        | 1,093.6335        | 0.3537        |     | 1,102.4761        |
| <b>Total</b> | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>0.0113</b> |               | <b>0.2356</b> | <b>0.2356</b> |                | <b>0.2168</b> | <b>0.2168</b> | <b>0.0000</b> | <b>1,093.6335</b> | <b>1,093.6335</b> | <b>0.3537</b> |     | <b>1,102.4761</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0120        | 1.0900e-003        | 0.0130        | 3.4800e-003    | 1.0400e-003        | 4.5200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0692        | 0.0436        | 0.5892        | 1.9700e-003        | 0.1855        | 1.3300e-003        | 0.1868        | 0.0495         | 1.2300e-003        | 0.0507        |          | 196.2079        | 196.2079        | 4.4700e-003        |     | 196.3197        |
| <b>Total</b> | <b>0.0756</b> | <b>0.2519</b> | <b>0.6442</b> | <b>2.4700e-003</b> | <b>0.1974</b> | <b>2.4200e-003</b> | <b>0.1998</b> | <b>0.0530</b>  | <b>2.2700e-003</b> | <b>0.0552</b> |          | <b>250.4336</b> | <b>250.4336</b> | <b>8.8600e-003</b> |     | <b>250.6551</b> |

### **3.15 Street Improvements - Balancing / Aggregate Base - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.1938        | 25.9636        | 15.3699        | 0.0318        |               | 1.0758        | 1.0758        |                | 0.9897        | 0.9897        |          | 3,082.6204        | 3,082.6204        | 0.9970        |     | 3,107.5449        |
| Paving       | 0.1991        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b> |               | <b>1.0758</b> | <b>1.0758</b> |                | <b>0.9897</b> | <b>0.9897</b> |          | <b>3,082.6204</b> | <b>3,082.6204</b> | <b>0.9970</b> |     | <b>3,107.5449</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0128        | 1.0900e-003        | 0.0139        | 3.6800e-003    | 1.0400e-003        | 4.7200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1916</b> | <b>2.2700e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1300e-003</b> | <b>0.0532</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.1938        | 25.9636        | 15.3699        | 0.0318        |               | 1.0758        | 1.0758        |                | 0.9897        | 0.9897        | 0.0000        | 3,082.6204        | 3,082.6204        | 0.9970        |     | 3,107.5449        |
| Paving       | 0.1991        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b> |               | <b>1.0758</b> | <b>1.0758</b> |                | <b>0.9897</b> | <b>0.9897</b> | <b>0.0000</b> | <b>3,082.6204</b> | <b>3,082.6204</b> | <b>0.9970</b> |     | <b>3,107.5449</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0120        | 1.0900e-003        | 0.0130        | 3.4800e-003    | 1.0400e-003        | 4.5200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1768</b> | <b>2.2700e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1300e-003</b> | <b>0.0496</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### **3.16 Street Improvements - Curb & Gutter - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Paving       | 0.1991        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| <b>Total</b> | <b>0.1991</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0436        | 0.5892        | 1.9700e-003        | 0.2012        | 1.3300e-003        | 0.2025        | 0.0534         | 1.2300e-003        | 0.0546        |          | 196.2079        | 196.2079        | 4.4700e-003        |     | 196.3197        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0436</b> | <b>0.5892</b> | <b>1.9700e-003</b> | <b>0.2012</b> | <b>1.3300e-003</b> | <b>0.2025</b> | <b>0.0534</b>  | <b>1.2300e-003</b> | <b>0.0546</b> |          | <b>196.2079</b> | <b>196.2079</b> | <b>4.4700e-003</b> |     | <b>196.3197</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Paving       | 0.1991        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |               | 0.0000        |               |     | 0.0000        |
| <b>Total</b> | <b>0.1991</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0692        | 0.0436        | 0.5892        | 1.9700e-003        | 0.1855        | 1.3300e-003        | 0.1868        | 0.0495         | 1.2300e-003        | 0.0507        |          | 196.2079        | 196.2079        | 4.4700e-003        |     | 196.3197        |
| <b>Total</b> | <b>0.0692</b> | <b>0.0436</b> | <b>0.5892</b> | <b>1.9700e-003</b> | <b>0.1855</b> | <b>1.3300e-003</b> | <b>0.1868</b> | <b>0.0495</b>  | <b>1.2300e-003</b> | <b>0.0507</b> |          | <b>196.2079</b> | <b>196.2079</b> | <b>4.4700e-003</b> |     | <b>196.3197</b> |

### **3.17 Asphalt Paving - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2414        | 14.6521        | 8.7696        | 0.0183        |               | 0.6216        | 0.6216        |                | 0.5719        | 0.5719        |          | 1,773.2090        | 1,773.2090        | 0.5735        |     | 1,787.5463        |
| Paving       | 0.4978        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b> |               | <b>0.6216</b> | <b>0.6216</b> |                | <b>0.5719</b> | <b>0.5719</b> |          | <b>1,773.2090</b> | <b>1,773.2090</b> | <b>0.5735</b> |     | <b>1,787.5463</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0461        | 0.0291        | 0.3928        | 1.3100e-003        | 0.1341        | 8.9000e-004        | 0.1350        | 0.0356         | 8.2000e-004        | 0.0364        |          | 130.8052        | 130.8052        | 2.9800e-003        |     | 130.8798        |
| <b>Total</b> | <b>0.0461</b> | <b>0.0291</b> | <b>0.3928</b> | <b>1.3100e-003</b> | <b>0.1341</b> | <b>8.9000e-004</b> | <b>0.1350</b> | <b>0.0356</b>  | <b>8.2000e-004</b> | <b>0.0364</b> |          | <b>130.8052</b> | <b>130.8052</b> | <b>2.9800e-003</b> |     | <b>130.8798</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2414        | 14.6521        | 8.7696        | 0.0183        |               | 0.6216        | 0.6216        |                | 0.5719        | 0.5719        | 0.0000        | 1,773.2090        | 1,773.2090        | 0.5735        |     | 1,787.5463        |
| Paving       | 0.4978        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b> |               | <b>0.6216</b> | <b>0.6216</b> |                | <b>0.5719</b> | <b>0.5719</b> | <b>0.0000</b> | <b>1,773.2090</b> | <b>1,773.2090</b> | <b>0.5735</b> |     | <b>1,787.5463</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0461        | 0.0291        | 0.3928        | 1.3100e-003        | 0.1236        | 8.9000e-004        | 0.1245        | 0.0330         | 8.2000e-004        | 0.0338        |          | 130.8052        | 130.8052        | 2.9800e-003        |     | 130.8798        |
| <b>Total</b> | <b>0.0461</b> | <b>0.0291</b> | <b>0.3928</b> | <b>1.3100e-003</b> | <b>0.1236</b> | <b>8.9000e-004</b> | <b>0.1245</b> | <b>0.0330</b>  | <b>8.2000e-004</b> | <b>0.0338</b> |          | <b>130.8052</b> | <b>130.8052</b> | <b>2.9800e-003</b> |     | <b>130.8798</b> |

### 3.18 Street Improvements - Concrete Flatwork - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.2009        | 2.0183        | 2.1857        | 2.9800e-003        |               | 0.1276        | 0.1276        |                | 0.1174        | 0.1174        |          | 288.3657        | 288.3657        | 0.0933        |     | 290.6973        |
| Paving       | 0.0905        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.9800e-003</b> |               | <b>0.1276</b> | <b>0.1276</b> |                | <b>0.1174</b> | <b>0.1174</b> |          | <b>288.3657</b> | <b>288.3657</b> | <b>0.0933</b> |     | <b>290.6973</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0615</b> | <b>0.0387</b> | <b>0.5237</b> | <b>1.7500e-003</b> | <b>0.1788</b> | <b>1.1800e-003</b> | <b>0.1800</b> | <b>0.0474</b>  | <b>1.0900e-003</b> | <b>0.0485</b> |          | <b>174.4070</b> | <b>174.4070</b> | <b>3.9800e-003</b> |     | <b>174.5064</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Off-Road     | 0.2009        | 2.0183        | 2.1857        | 2.9800e-003        |               | 0.1276        | 0.1276        |                | 0.1174        | 0.1174        | 0.0000        | 288.3657        | 288.3657        | 0.0933        |     | 290.6973        |
| Paving       | 0.0905        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.9800e-003</b> |               | <b>0.1276</b> | <b>0.1276</b> |                | <b>0.1174</b> | <b>0.1174</b> | <b>0.0000</b> | <b>288.3657</b> | <b>288.3657</b> | <b>0.0933</b> |     | <b>290.6973</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0615</b> | <b>0.0387</b> | <b>0.5237</b> | <b>1.7500e-003</b> | <b>0.1649</b> | <b>1.1800e-003</b> | <b>0.1660</b> | <b>0.0440</b>  | <b>1.0900e-003</b> | <b>0.0451</b> |          | <b>174.4070</b> | <b>174.4070</b> | <b>3.9800e-003</b> |     | <b>174.5064</b> |

### **3.19 Architectural Coating - 2022**

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>34.5923</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0819        | 0.0475        | 0.6804        | 2.4400e-003        | 0.2683        | 1.7000e-003        | 0.2700        | 0.0711         | 1.5700e-003        | 0.0727        |          | 243.1683        | 243.1683        | 4.9100e-003        |     | 243.2911        |
| <b>Total</b> | <b>0.0819</b> | <b>0.0475</b> | <b>0.6804</b> | <b>2.4400e-003</b> | <b>0.2683</b> | <b>1.7000e-003</b> | <b>0.2700</b> | <b>0.0711</b>  | <b>1.5700e-003</b> | <b>0.0727</b> |          | <b>243.1683</b> | <b>243.1683</b> | <b>4.9100e-003</b> |     | <b>243.2911</b> |

### Mitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>34.5923</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0819        | 0.0475        | 0.6804        | 2.4400e-003        | 0.2473        | 1.7000e-003        | 0.2490        | 0.0660         | 1.5700e-003        | 0.0676        |          | 243.1683        | 243.1683        | 4.9100e-003        |     | 243.2911        |
| <b>Total</b> | <b>0.0819</b> | <b>0.0475</b> | <b>0.6804</b> | <b>2.4400e-003</b> | <b>0.2473</b> | <b>1.7000e-003</b> | <b>0.2490</b> | <b>0.0660</b>  | <b>1.5700e-003</b> | <b>0.0676</b> |          | <b>243.1683</b> | <b>243.1683</b> | <b>4.9100e-003</b> |     | <b>243.2911</b> |

### **3.19 Architectural Coating - 2023**

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        |          | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>34.5795</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0775        | 0.0431        | 0.6345        | 2.3400e-003        | 0.2683        | 1.6700e-003        | 0.2699        | 0.0711         | 1.5400e-003        | 0.0727        |          | 233.8199        | 233.8199        | 4.4500e-003        |     | 233.9312        |
| <b>Total</b> | <b>0.0775</b> | <b>0.0431</b> | <b>0.6345</b> | <b>2.3400e-003</b> | <b>0.2683</b> | <b>1.6700e-003</b> | <b>0.2699</b> | <b>0.0711</b>  | <b>1.5400e-003</b> | <b>0.0727</b> |          | <b>233.8199</b> | <b>233.8199</b> | <b>4.4500e-003</b> |     | <b>233.9312</b> |

### Mitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        | 0.0000        | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>34.5795</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0775        | 0.0431        | 0.6345        | 2.3400e-003        | 0.2473        | 1.6700e-003        | 0.2490        | 0.0660         | 1.5400e-003        | 0.0675        |          | 233.8199        | 233.8199        | 4.4500e-003        |     | 233.9312        |
| <b>Total</b> | <b>0.0775</b> | <b>0.0431</b> | <b>0.6345</b> | <b>2.3400e-003</b> | <b>0.2473</b> | <b>1.6700e-003</b> | <b>0.2490</b> | <b>0.0660</b>  | <b>1.5400e-003</b> | <b>0.0675</b> |          | <b>233.8199</b> | <b>233.8199</b> | <b>4.4500e-003</b> |     | <b>233.9312</b> |

Construction - Orange County, Winter

## Construction Orange County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 30    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2024  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity (lb/MW hr)</b> | 0.029 | <b>N2O Intensity (lb/MW hr)</b>  | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

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Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

Off-road Equipment -

| Table Name              | Column Name                       | Default Value | New Value  |
|-------------------------|-----------------------------------|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 3,750.00      | 2,813.00   |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 11,250.00     | 9,000.00   |
| tblArchitecturalCoating | ConstArea_Residential_Exterior    | 297,423.00    | 223,067.00 |
| tblArchitecturalCoating | ConstArea_Residential_Interior    | 892,270.00    | 713,816.00 |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 9          |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed      | 0             | 15         |
| tblConstructionPhase    | NumDays                           | 20.00         | 67.00      |
| tblConstructionPhase    | NumDays                           | 230.00        | 768.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 17.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 3.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 9.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 10.00      |
| tblConstructionPhase    | NumDays                           | 20.00         | 209.00     |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 5.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 2.00       |
| tblConstructionPhase    | NumDays                           | 20.00         | 11.00      |
| tblConstructionPhase    | NumDays                           | 10.00         | 1.00       |
| tblGrading              | MaterialExported                  | 0.00          | 7,542.00   |
| tblGrading              | MaterialExported                  | 0.00          | 7,000.00   |
| tblLandUse              | LandUseSquareFeet                 | 278,340.00    | 278,337.00 |
| tblLandUse              | LandUseSquareFeet                 | 14,374.80     | 0.00       |
| tblLandUse              | LandUseSquareFeet                 | 21,780.00     | 0.00       |

|                     |                   |            |            |
|---------------------|-------------------|------------|------------|
| tblLandUse          | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse          | LotAcreage        | 6.39       | 1.06       |
| tblLandUse          | LotAcreage        | 0.05       | 0.00       |
| tblLandUse          | LotAcreage        | 9.21       | 3.74       |
| tblLandUse          | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment | HorsePower        | 231.00     | 110.00     |
| tblOffRoadEquipment | HorsePower        | 231.00     | 93.00      |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 89.00      | 173.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 130.00     | 173.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 80.00      | 110.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 407.00     |
| tblOffRoadEquipment | HorsePower        | 97.00      | 260.00     |
| tblOffRoadEquipment | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment | HorsePower        | 187.00     | 238.00     |

|                     |                            |        |        |
|---------------------|----------------------------|--------|--------|
| tblOffRoadEquipment | HorsePower                 | 100.00 | 238.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 367.00 | 407.00 |
| tblOffRoadEquipment | HorsePower                 | 65.00  | 75.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 127.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 230.00 |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 93.00  |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 2.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00   |



|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00   | 2.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblOffRoadEquipment | UsageHours                 | 7.00   | 8.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 692.00 | 875.00   |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 13.00  | 34.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 372.00 | 120.00   |
| tblTripsAndVMT      | WorkerTripNumber           | 15.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 5.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 10.00  | 16.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 18.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 8.00   | 12.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 3.00   | 16.00    |

|                |                  |       |       |
|----------------|------------------|-------|-------|
| tblTripsAndVMT | WorkerTripNumber | 74.00 | 24.00 |
| tblTripsAndVMT | WorkerTripNumber | 0.00  | 8.00  |
| tblTripsAndVMT | WorkerTripNumber | 8.00  | 18.00 |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 16.00 |
| tblTripsAndVMT | WorkerTripNumber | 3.00  | 6.00  |
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 20.00 |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 11.0061 | 156.1712 | 88.0104 | 0.2925 | 49.3887       | 4.3436       | 53.7323    | 10.3912        | 4.0046        | 14.3959     | 0.0000   | 30,787.9632 | 30,787.9632 | 6.0327 | 0.0000 | 30,938.7812 |
| 2020    | 9.6860  | 217.0759 | 73.6482 | 0.4809 | 17.8156       | 2.9537       | 20.7693    | 6.1851         | 2.7354        | 8.9205      | 0.0000   | 52,519.2824 | 52,519.2824 | 7.1346 | 0.0000 | 52,697.6462 |
| 2021    | 2.4770  | 25.8971  | 19.1375 | 0.0621 | 1.8844        | 0.9450       | 2.8294     | 0.5120         | 0.8701        | 1.3821      | 0.0000   | 6,298.0405  | 6,298.0405  | 1.1432 | 0.0000 | 6,326.6194  |
| 2022    | 36.9789 | 25.4942  | 21.1000 | 0.0667 | 2.1526        | 0.9168       | 3.0695     | 0.5831         | 0.8506        | 1.4337      | 0.0000   | 6,743.4625  | 6,743.4625  | 1.1576 | 0.0000 | 6,772.4017  |
| 2023    | 36.8002 | 22.1561  | 20.5920 | 0.0656 | 2.1526        | 0.8271       | 2.9798     | 0.5831         | 0.7669        | 1.3501      | 0.0000   | 6,624.9514  | 6,624.9514  | 1.1400 | 0.0000 | 6,653.4509  |
| Maximum | 36.9789 | 217.0759 | 88.0104 | 0.4809 | 49.3887       | 4.3436       | 53.7323    | 10.3912        | 4.0046        | 14.3959     | 0.0000   | 52,519.2824 | 52,519.2824 | 7.1346 | 0.0000 | 52,697.6462 |

#### Mitigated Construction

|         | ROG     | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|---------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day  |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 11.0061 | 156.1712 | 88.0104 | 0.2925 | 23.2541       | 4.3436       | 27.5976    | 5.0330         | 4.0046        | 9.0376      | 0.0000   | 30,787.9631 | 30,787.9631 | 6.0327 | 0.0000 | 30,938.7812 |
| 2020    | 9.6860  | 217.0759 | 73.6482 | 0.4809 | 12.4900       | 2.9537       | 15.4437    | 3.9960         | 2.7354        | 6.7314      | 0.0000   | 52,519.2824 | 52,519.2824 | 7.1346 | 0.0000 | 52,697.6462 |
| 2021    | 2.4770  | 25.8971  | 19.1375 | 0.0621 | 1.7446        | 0.9450       | 2.6896     | 0.4777         | 0.8701        | 1.3477      | 0.0000   | 6,298.0405  | 6,298.0405  | 1.1432 | 0.0000 | 6,326.6194  |
| 2022    | 36.9789 | 25.4942  | 21.1000 | 0.0667 | 1.9918        | 0.9168       | 2.9086     | 0.5437         | 0.8506        | 1.3942      | 0.0000   | 6,743.4625  | 6,743.4625  | 1.1576 | 0.0000 | 6,772.4017  |
| 2023    | 36.8002 | 22.1561  | 20.5920 | 0.0656 | 1.9918        | 0.8271       | 2.8189     | 0.5437         | 0.7669        | 1.3106      | 0.0000   | 6,624.9514  | 6,624.9514  | 1.1400 | 0.0000 | 6,653.4509  |
| Maximum | 36.9789 | 217.0759 | 88.0104 | 0.4809 | 23.2541       | 4.3436       | 27.5976    | 5.0330         | 4.0046        | 9.0376      | 0.0000   | 52,519.2824 | 52,519.2824 | 7.1346 | 0.0000 | 52,697.6462 |

  

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 43.49         | 0.00         | 38.28      | 41.97          | 0.00          | 27.88       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name                | Phase Type       | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|---------------------------|------------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition       | Demolition       | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul | Demolition       | 12/5/2019  | 12/27/2019 | 5             | 17       |                   |
| 3            | Asphalt Demolition        | Demolition       | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul  | Demolition       | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 5            | Site Preparation          | Site Preparation | 12/26/2019 | 12/26/2019 | 5             | 1        |                   |

|    |                                                        |                       |            |           |   |     |
|----|--------------------------------------------------------|-----------------------|------------|-----------|---|-----|
| 6  | Rough Grading                                          | Grading               | 12/29/2019 | 1/1/2020  | 5 | 3   |
| 7  | Rough Grading Soil Haul                                | Grading               | 1/1/2020   | 1/3/2020  | 5 | 3   |
| 8  | Fine Grading                                           | Grading               | 1/1/2020   | 1/13/2020 | 5 | 9   |
| 9  | Parking Structure                                      | Grading               | 1/5/2020   | 1/17/2020 | 5 | 10  |
| 10 | Excavation/Shoring/Hauling<br>Wet Utility Installation | Trenching             | 1/9/2020   | 3/5/2020  | 5 | 41  |
| 11 | Multi-Use Structure                                    | Building Construction | 2/19/2020  | 1/27/2023 | 5 | 768 |
| 12 | Structural Concrete                                    | Paving                | 2/19/2020  | 12/7/2020 | 5 | 209 |
| 13 | Dry Utility Installation                               | Trenching             | 3/2/2020   | 3/13/2020 | 5 | 10  |
| 14 | Street Improvements - Balancing<br>/ Aggregate Base    | Paving                | 3/16/2020  | 3/20/2020 | 5 | 5   |
| 15 | Street Improvements - Curb &<br>Gutter                 | Paving                | 3/23/2020  | 3/27/2020 | 5 | 5   |
| 16 | Asphalt Paving                                         | Paving                | 4/1/2020   | 4/2/2020  | 5 | 2   |
| 17 | Street Improvements - Concrete<br>Flatwork             | Paving                | 4/5/2020   | 4/20/2020 | 5 | 11  |
| 18 | Architectural Coating                                  | Architectural Coating | 10/27/2022 | 1/27/2023 | 5 | 67  |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.44**

**Residential Indoor: 713,816; Residential Outdoor: 223,067; Non-Residential Indoor: 9,000; Non-Residential Outdoor: 2,813; Striped**

#### **OffRoad Equipment**

| Phase Name                | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition       | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition       | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition       | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition       | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition       | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |
| Building Demo Debris Haul | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |

|                                                 |                           |   |      |     |      |
|-------------------------------------------------|---------------------------|---|------|-----|------|
| Building Demo Debris Haul                       | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Building Demo Debris Haul                       | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demolition                              | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demolition                              | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Asphalt Demolition                              | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demo Debris Haul                        | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demo Debris Haul                        | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Asphalt Demo Debris Haul                        | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Site Preparation                                | Rubber Tired Dozers       | 1 | 8.00 | 365 | 0.40 |
| Site Preparation                                | Tractors/Loaders/Backhoes | 2 | 8.00 | 260 | 0.37 |
| Rough Grading                                   | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Rough Grading                                   | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Rough Grading                                   | Rubber Tired Dozers       | 1 | 8.00 | 257 | 0.40 |
| Rough Grading                                   | Rubber Tired Dozers       | 1 | 8.00 | 562 | 0.40 |
| Rough Grading                                   | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Rough Grading                                   | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Rough Grading Soil Haul                         | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Rough Grading Soil Haul                         | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Rough Grading Soil Haul                         | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading Soil Haul                         | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Fine Grading                                    | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Fine Grading                                    | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Fine Grading                                    | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Fine Grading                                    | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Parking Structure<br>Excavation/Shoring/Hauling | Bore/Drill Rigs           | 1 | 8.00 | 221 | 0.50 |
| Parking Structure<br>Excavation/Shoring/Hauling | Cranes                    | 1 | 8.00 | 231 | 0.29 |
| Parking Structure<br>Excavation/Shoring/Hauling | Excavators                | 1 | 8.00 | 238 | 0.38 |

|                                                  |                           |   |      |     |      |
|--------------------------------------------------|---------------------------|---|------|-----|------|
| Parking Structure                                | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Parking Structure                                | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Parking Structure                                | Tractors/Loaders/Backhoes | 1 | 8.00 | 407 | 0.37 |
| Excavation/Shoring/Hauling                       |                           |   |      |     |      |
| Wet Utility Installation                         | Excavators                | 2 | 8.00 | 300 | 0.38 |
| Wet Utility Installation                         | Tractors/Loaders/Backhoes | 2 | 8.00 | 230 | 0.37 |
| Wet Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Multi-Use Structure                              | Cranes                    | 1 | 8.00 | 110 | 0.29 |
| Multi-Use Structure                              | Cranes                    | 2 | 8.00 | 93  | 0.29 |
| Multi-Use Structure                              | Forklifts                 | 2 | 8.00 | 173 | 0.20 |
| Multi-Use Structure                              | Generator Sets            | 0 | 8.00 | 84  | 0.74 |
| Multi-Use Structure                              | Rough Terrain Forklifts   | 2 | 8.00 | 238 | 0.40 |
| Multi-Use Structure                              | Tractors/Loaders/Backhoes | 0 | 7.00 | 97  | 0.37 |
| Multi-Use Structure                              | Welders                   | 0 | 8.00 | 46  | 0.45 |
| Structural Concrete                              | Cement and Mortar Mixers  | 1 | 8.00 | 9   | 0.56 |
| Structural Concrete                              | Cranes                    | 1 | 8.00 | 231 | 0.29 |
| Structural Concrete                              | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Structural Concrete                              | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Structural Concrete                              | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Structural Concrete                              | Rough Terrain Forklifts   | 2 | 8.00 | 100 | 0.40 |
| Structural Concrete                              | Tractors/Loaders/Backhoes | 2 | 8.00 | 93  | 0.37 |
| Dry Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 127 | 0.37 |
| Dry Utility Installation                         | Tractors/Loaders/Backhoes | 1 | 8.00 | 230 | 0.37 |
| Street Improvements - Balancing / Aggregate Base | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Street Improvements - Balancing / Aggregate Base | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Balancing / Aggregate Base | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Balancing / Aggregate Base | Rollers                   | 1 | 8.00 | 110 | 0.38 |
| Street Improvements - Balancing / Aggregate Base | Scrapers                  | 1 | 8.00 | 407 | 0.48 |

|                                                  |                           |   |      |     |      |
|--------------------------------------------------|---------------------------|---|------|-----|------|
| Street Improvements - Balancing / Aggregate Base | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Street Improvements - Curb & Gutter              | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Curb & Gutter              | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Curb & Gutter              | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Asphalt Paving                                   | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Asphalt Paving                                   | Pavers                    | 1 | 8.00 | 173 | 0.42 |
| Asphalt Paving                                   | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Asphalt Paving                                   | Rollers                   | 1 | 8.00 | 110 | 0.38 |
| Street Improvements - Concrete Flatwork          | Pavers                    | 0 | 8.00 | 130 | 0.42 |
| Street Improvements - Concrete Flatwork          | Paving Equipment          | 0 | 8.00 | 132 | 0.36 |
| Street Improvements - Concrete Flatwork          | Rollers                   | 0 | 8.00 | 80  | 0.38 |
| Street Improvements - Concrete Flatwork          | Tractors/Loaders/Backhoes | 1 | 8.00 | 93  | 0.37 |
| Architectural Coating                            | Air Compressors           | 1 | 6.00 | 78  | 0.48 |

### Trips and VMT

| Phase Name                              | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition                     | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul               | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition                      | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul                | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation                        | 3                       | 18.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading                           | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul                 | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Fine Grading                            | 1                       | 6.00               | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Parking Structure Excavation/Shoring/Ha | 4                       | 20.00              | 2.00               | 875.00              | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Wet Utility Installation                | 5                       | 34.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

|                                                |   |        |       |      |       |      |       |        |         |      |
|------------------------------------------------|---|--------|-------|------|-------|------|-------|--------|---------|------|
| Multi-Use Structure                            | 7 | 120.00 | 85.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Structural Concrete                            | 6 | 40.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Dry Utility Installation                       | 2 | 18.00  | 2.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Balancing / Aggregate | 4 | 16.00  | 2.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Curb & Gutter         | 0 | 18.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Asphalt Paving                                 | 3 | 12.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Street Improvements -<br>Concrete Flatwork     | 1 | 16.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating                          | 1 | 24.00  | 0.00  | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive<br>PM10 | Exhaust<br>PM10 | PM10<br>Total | Fugitive<br>PM2.5 | Exhaust<br>PM2.5 | PM2.5<br>Total | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|------------------|-----------------|---------------|-------------------|------------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |                  |                 |               |                   |                  |                | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000           | 0.0000          | 0.0000        | 0.0000            | 0.0000           | 0.0000         |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |                  | 2.8698          | 2.8698        |                   | 2.6402           | 2.6402         |          | 8,552.7391        | 8,552.7391        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b>    | <b>2.8698</b>   | <b>2.8698</b> | <b>0.0000</b>     | <b>2.6402</b>    | <b>2.6402</b>  |          | <b>8,552.7391</b> | <b>8,552.7391</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0156        | 0.4544        | 0.1317        | 9.8000e-004        | 0.0256        | 3.1200e-003        | 0.0287        | 7.3500e-003    | 2.9900e-003        | 0.0103        |          | 106.5421        | 106.5421        | 9.7000e-003   |     | 106.7847        |
| Worker       | 0.1860        | 0.1188        | 1.3211        | 4.2800e-003        | 0.4471        | 2.9900e-003        | 0.4501        | 0.1186         | 2.7500e-003        | 0.1213        |          | 426.3095        | 426.3095        | 0.0105        |     | 426.5721        |
| <b>Total</b> | <b>0.2016</b> | <b>0.5732</b> | <b>1.4529</b> | <b>5.2600e-003</b> | <b>0.4727</b> | <b>6.1100e-003</b> | <b>0.4788</b> | <b>0.1259</b>  | <b>5.7400e-003</b> | <b>0.1317</b> |          | <b>532.8515</b> | <b>532.8515</b> | <b>0.0202</b> |     | <b>533.3567</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |               | 2.8698        | 2.8698        |                | 2.6402        | 2.6402        | 0.0000        | 8,552.7390        | 8,552.7390        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b> | <b>2.8698</b> | <b>2.8698</b> | <b>0.0000</b>  | <b>2.6402</b> | <b>2.6402</b> | <b>0.0000</b> | <b>8,552.7390</b> | <b>8,552.7390</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0156        | 0.4544        | 0.1317        | 9.8000e-004        | 0.0239        | 3.1200e-003        | 0.0270        | 6.9500e-003    | 2.9900e-003        | 9.9400e-003   |          | 106.5421        | 106.5421        | 9.7000e-003   |     | 106.7847        |
| Worker       | 0.1860        | 0.1188        | 1.3211        | 4.2800e-003        | 0.4121        | 2.9900e-003        | 0.4151        | 0.1100         | 2.7500e-003        | 0.1127        |          | 426.3095        | 426.3095        | 0.0105        |     | 426.5721        |
| <b>Total</b> | <b>0.2016</b> | <b>0.5732</b> | <b>1.4529</b> | <b>5.2600e-003</b> | <b>0.4360</b> | <b>6.1100e-003</b> | <b>0.4422</b> | <b>0.1169</b>  | <b>5.7400e-003</b> | <b>0.1227</b> |          | <b>532.8515</b> | <b>532.8515</b> | <b>0.0202</b> |     | <b>533.3567</b> |

### **3.3 Building Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 10.5736        | 0.0000        | 10.5736        | 1.6009         | 0.0000        | 1.6009        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>10.5736</b> | <b>0.1162</b> | <b>10.6898</b> | <b>1.6009</b>  | <b>0.1069</b> | <b>1.7079</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.4503        | 49.7123        | 12.7346        | 0.1360        | 3.2084        | 0.2085        | 3.4168        | 0.8782         | 0.1994        | 1.0776        |          | 15,122.1273        | 15,122.1273        | 1.5763        |     | 15,161.5356        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0140        | 8.9100e-003    | 0.0991         | 3.2000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 31.9732            | 31.9732            | 7.9000e-004   |     | 31.9929            |
| <b>Total</b> | <b>1.4643</b> | <b>49.7213</b> | <b>12.8337</b> | <b>0.1363</b> | <b>3.2419</b> | <b>0.2087</b> | <b>3.4506</b> | <b>0.8871</b>  | <b>0.1997</b> | <b>1.0867</b> |          | <b>15,154.1005</b> | <b>15,154.1005</b> | <b>1.5771</b> |     | <b>15,193.5285</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 4.5202        | 0.0000        | 4.5202        | 0.6844         | 0.0000        | 0.6844        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |               | 0.1162        | 0.1162        |                | 0.1069        | 0.1069        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>4.5202</b> | <b>0.1162</b> | <b>4.6364</b> | <b>0.6844</b>  | <b>0.1069</b> | <b>0.7913</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.4503        | 49.7123        | 12.7346        | 0.1360        | 2.9890        | 0.2085        | 3.1975        | 0.8244         | 0.1994        | 1.0238        |          | 15,122.1273        | 15,122.1273        | 1.5763        |     | 15,161.5356        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0140        | 8.9100e-003    | 0.0991         | 3.2000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 31.9732            | 31.9732            | 7.9000e-004   |     | 31.9929            |
| <b>Total</b> | <b>1.4643</b> | <b>49.7213</b> | <b>12.8337</b> | <b>0.1363</b> | <b>3.0199</b> | <b>0.2087</b> | <b>3.2286</b> | <b>0.8326</b>  | <b>0.1997</b> | <b>1.0323</b> |          | <b>15,154.1005</b> | <b>15,154.1005</b> | <b>1.5771</b> |     | <b>15,193.5285</b> |

### **3.4 Asphalt Demolition - 2019**

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0372        | 0.0238        | 0.2642        | 8.6000e-004        | 0.0894        | 6.0000e-004        | 0.0900        | 0.0237         | 5.5000e-004        | 0.0243        |          | 85.2619        | 85.2619        | 2.1000e-003        |     | 85.3144        |
| <b>Total</b> | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>8.6000e-004</b> | <b>0.0894</b> | <b>6.0000e-004</b> | <b>0.0900</b> | <b>0.0237</b>  | <b>5.5000e-004</b> | <b>0.0243</b> |          | <b>85.2619</b> | <b>85.2619</b> | <b>2.1000e-003</b> |     | <b>85.3144</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0372        | 0.0238        | 0.2642        | 8.6000e-004        | 0.0824        | 6.0000e-004        | 0.0830        | 0.0220         | 5.5000e-004        | 0.0226        |          | 85.2619        | 85.2619        | 2.1000e-003        |     | 85.3144        |
| <b>Total</b> | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>8.6000e-004</b> | <b>0.0824</b> | <b>6.0000e-004</b> | <b>0.0830</b> | <b>0.0220</b>  | <b>5.5000e-004</b> | <b>0.0226</b> |          | <b>85.2619</b> | <b>85.2619</b> | <b>2.1000e-003</b> |     | <b>85.3144</b> |

### **3.5 Asphalt Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 28.5320        | 0.0000        | 28.5320        | 4.3200         | 0.0000        | 4.3200        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>28.5320</b> | <b>0.1162</b> | <b>28.6482</b> | <b>4.3200</b>  | <b>0.1069</b> | <b>4.4269</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1797        | 7.1820        | 1.6203        | 0.0123        | 0.2095        | 0.0177        | 0.2273        | 0.0574         | 0.0170        | 0.0744        |          | 1,362.3317        | 1,362.3317        | 0.1908        |     | 1,367.1016        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0140        | 8.9100e-003   | 0.0991        | 3.2000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 31.9732           | 31.9732           | 7.9000e-004   |     | 31.9929           |
| <b>Total</b> | <b>0.1937</b> | <b>7.1909</b> | <b>1.7194</b> | <b>0.0126</b> | <b>0.2430</b> | <b>0.0180</b> | <b>0.2610</b> | <b>0.0663</b>  | <b>0.0172</b> | <b>0.0835</b> |          | <b>1,394.3049</b> | <b>1,394.3049</b> | <b>0.1916</b> |     | <b>1,399.0945</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 12.1974        | 0.0000        | 12.1974        | 1.8468         | 0.0000        | 1.8468        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>12.1974</b> | <b>0.1162</b> | <b>12.3136</b> | <b>1.8468</b>  | <b>0.1069</b> | <b>1.9537</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1797        | 7.1820        | 1.6203        | 0.0123        | 0.1953        | 0.0177        | 0.2130        | 0.0539         | 0.0170        | 0.0709        |          | 1,362.3317        | 1,362.3317        | 0.1908        |     | 1,367.1016        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0140        | 8.9100e-003   | 0.0991        | 3.2000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 31.9732           | 31.9732           | 7.9000e-004   |     | 31.9929           |
| <b>Total</b> | <b>0.1937</b> | <b>7.1909</b> | <b>1.7194</b> | <b>0.0126</b> | <b>0.2262</b> | <b>0.0180</b> | <b>0.2441</b> | <b>0.0622</b>  | <b>0.0172</b> | <b>0.0794</b> |          | <b>1,394.3049</b> | <b>1,394.3049</b> | <b>0.1916</b> |     | <b>1,399.0945</b> |

### **3.6 Site Preparation - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 6.0221        | 0.0000        | 6.0221        | 3.3102         | 0.0000        | 3.3102        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        |               | 1.0051        | 1.0051        |                | 0.9247        | 0.9247        |          | 2,888.4333        | 2,888.4333        | 0.9139        |     | 2,911.2801        |
| <b>Total</b>  | <b>2.1723</b> | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b> | <b>6.0221</b> | <b>1.0051</b> | <b>7.0272</b> | <b>3.3102</b>  | <b>0.9247</b> | <b>4.2350</b> |          | <b>2,888.4333</b> | <b>2,888.4333</b> | <b>0.9139</b> |     | <b>2,911.2801</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.8200e-003   | 0.2272        | 0.0659        | 4.9000e-004        | 0.0128        | 1.5600e-003        | 0.0143        | 3.6800e-003    | 1.4900e-003        | 5.1700e-003   |          | 53.2710         | 53.2710         | 4.8500e-003        |     | 53.3923         |
| Worker       | 0.0837        | 0.0535        | 0.5945        | 1.9200e-003        | 0.2012        | 1.3400e-003        | 0.2025        | 0.0534         | 1.2400e-003        | 0.0546        |          | 191.8393        | 191.8393        | 4.7300e-003        |     | 191.9574        |
| <b>Total</b> | <b>0.0915</b> | <b>0.2807</b> | <b>0.6604</b> | <b>2.4100e-003</b> | <b>0.2140</b> | <b>2.9000e-003</b> | <b>0.2169</b> | <b>0.0570</b>  | <b>2.7300e-003</b> | <b>0.0598</b> |          | <b>245.1103</b> | <b>245.1103</b> | <b>9.5800e-003</b> |     | <b>245.3498</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.5744        | 0.0000        | 2.5744        | 1.4151         | 0.0000        | 1.4151        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1723        | 23.7751        | 16.9274        | 0.0292        |               | 1.0051        | 1.0051        |                | 0.9247        | 0.9247        | 0.0000        | 2,888.4333        | 2,888.4333        | 0.9139        |     | 2,911.2801        |
| <b>Total</b>  | <b>2.1723</b> | <b>23.7751</b> | <b>16.9274</b> | <b>0.0292</b> | <b>2.5744</b> | <b>1.0051</b> | <b>3.5796</b> | <b>1.4151</b>  | <b>0.9247</b> | <b>2.3399</b> | <b>0.0000</b> | <b>2,888.4333</b> | <b>2,888.4333</b> | <b>0.9139</b> |     | <b>2,911.2801</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.8200e-003   | 0.2272        | 0.0659        | 4.9000e-004        | 0.0120        | 1.5600e-003        | 0.0135        | 3.4800e-003    | 1.4900e-003        | 4.9700e-003   |          | 53.2710         | 53.2710         | 4.8500e-003        |     | 53.3923         |
| Worker       | 0.0837        | 0.0535        | 0.5945        | 1.9200e-003        | 0.1855        | 1.3400e-003        | 0.1868        | 0.0495         | 1.2400e-003        | 0.0507        |          | 191.8393        | 191.8393        | 4.7300e-003        |     | 191.9574        |
| <b>Total</b> | <b>0.0915</b> | <b>0.2807</b> | <b>0.6604</b> | <b>2.4100e-003</b> | <b>0.1974</b> | <b>2.9000e-003</b> | <b>0.2003</b> | <b>0.0530</b>  | <b>2.7300e-003</b> | <b>0.0557</b> |          | <b>245.1103</b> | <b>245.1103</b> | <b>9.5800e-003</b> |     | <b>245.3498</b> |

### **3.7 Rough Grading - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.6408        | 58.1082        | 30.1801        | 0.0536        |               | 2.2074        | 2.2074        |                | 2.0308        | 2.0308        |          | 5,306.6555        | 5,306.6555        | 1.6790        |     | 5,348.6297        |
| <b>Total</b>  | <b>4.6408</b> | <b>58.1082</b> | <b>30.1801</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.2074</b> | <b>9.8202</b> | <b>3.4820</b>  | <b>2.0308</b> | <b>5.5128</b> |          | <b>5,306.6555</b> | <b>5,306.6555</b> | <b>1.6790</b> |     | <b>5,348.6297</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.8200e-003   | 0.2272        | 0.0659        | 4.9000e-004        | 0.0128        | 1.5600e-003        | 0.0143        | 3.6800e-003    | 1.4900e-003        | 5.1700e-003   |          | 53.2710         | 53.2710         | 4.8500e-003        |     | 53.3923         |
| Worker       | 0.0744        | 0.0475        | 0.5285        | 1.7100e-003        | 0.1788        | 1.1900e-003        | 0.1800        | 0.0474         | 1.1000e-003        | 0.0485        |          | 170.5238        | 170.5238        | 4.2000e-003        |     | 170.6288        |
| <b>Total</b> | <b>0.0822</b> | <b>0.2747</b> | <b>0.5943</b> | <b>2.2000e-003</b> | <b>0.1916</b> | <b>2.7500e-003</b> | <b>0.1944</b> | <b>0.0511</b>  | <b>2.5900e-003</b> | <b>0.0537</b> |          | <b>223.7948</b> | <b>223.7948</b> | <b>9.0500e-003</b> |     | <b>224.0211</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.6408        | 58.1082        | 30.1801        | 0.0536        |               | 2.2074        | 2.2074        |                | 2.0308        | 2.0308        | 0.0000        | 5,306.6555        | 5,306.6555        | 1.6790        |     | 5,348.6297        |
| <b>Total</b>  | <b>4.6408</b> | <b>58.1082</b> | <b>30.1801</b> | <b>0.0536</b> | <b>3.2545</b> | <b>2.2074</b> | <b>5.4619</b> | <b>1.4886</b>  | <b>2.0308</b> | <b>3.5194</b> | <b>0.0000</b> | <b>5,306.6555</b> | <b>5,306.6555</b> | <b>1.6790</b> |     | <b>5,348.6297</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 7.8200e-003   | 0.2272        | 0.0659        | 4.9000e-004        | 0.0120        | 1.5600e-003        | 0.0135        | 3.4800e-003    | 1.4900e-003        | 4.9700e-003   |          | 53.2710         | 53.2710         | 4.8500e-003        |     | 53.3923         |
| Worker       | 0.0744        | 0.0475        | 0.5285        | 1.7100e-003        | 0.1649        | 1.1900e-003        | 0.1660        | 0.0440         | 1.1000e-003        | 0.0451        |          | 170.5238        | 170.5238        | 4.2000e-003        |     | 170.6288        |
| <b>Total</b> | <b>0.0822</b> | <b>0.2747</b> | <b>0.5943</b> | <b>2.2000e-003</b> | <b>0.1768</b> | <b>2.7500e-003</b> | <b>0.1796</b> | <b>0.0475</b>  | <b>2.5900e-003</b> | <b>0.0501</b> |          | <b>223.7948</b> | <b>223.7948</b> | <b>9.0500e-003</b> |     | <b>224.0211</b> |

### **3.7 Rough Grading - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        |          | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.1004</b> | <b>9.7132</b> | <b>3.4820</b>  | <b>1.9324</b> | <b>5.4143</b> |          | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0128        | 1.1100e-003        | 0.0139        | 3.6800e-003    | 1.0600e-003        | 4.7400e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1916</b> | <b>2.2900e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1500e-003</b> | <b>0.0533</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        | 0.0000        | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>3.2545</b> | <b>2.1004</b> | <b>5.3549</b> | <b>1.4886</b>  | <b>1.9324</b> | <b>3.4209</b> | <b>0.0000</b> | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0120        | 1.1100e-003        | 0.0131        | 3.4800e-003    | 1.0600e-003        | 4.5300e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1768</b> | <b>2.2900e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1500e-003</b> | <b>0.0496</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### **3.8 Rough Grading Soil Haul - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx             | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                 |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 4.1636        | 149.7958        | 39.3554        | 0.4056        | 9.3675        | 0.4878        | 9.8552        | 2.5644         | 0.4667        | 3.0310        |          | 45,201.6795        | 45,201.6795        | 4.8704        |     | 45,323.4400        |
| Vendor       | 0.0000        | 0.0000          | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003     | 0.0908         | 3.1000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>4.1767</b> | <b>149.8038</b> | <b>39.4462</b> | <b>0.4059</b> | <b>9.4010</b> | <b>0.4880</b> | <b>9.8890</b> | <b>2.5732</b>  | <b>0.4669</b> | <b>3.0401</b> |          | <b>45,232.6282</b> | <b>45,232.6282</b> | <b>4.8711</b> |     | <b>45,354.4063</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx             | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|-----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                 |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 4.1636        | 149.7958        | 39.3554        | 0.4056        | 8.7273        | 0.4878        | 9.2151        | 2.4072         | 0.4667        | 2.8739        |          | 45,201.6795        | 45,201.6795        | 4.8704        |     | 45,323.4400        |
| Vendor       | 0.0000        | 0.0000          | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003     | 0.0908         | 3.1000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>4.1767</b> | <b>149.8038</b> | <b>39.4462</b> | <b>0.4059</b> | <b>8.7582</b> | <b>0.4880</b> | <b>9.2462</b> | <b>2.4155</b>  | <b>0.4669</b> | <b>2.8823</b> |          | <b>45,232.6282</b> | <b>45,232.6282</b> | <b>4.8711</b> |     | <b>45,354.4063</b> |

### **3.9 Fine Grading - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.5303        | 0.0000        | 0.5303        | 0.0573         | 0.0000        | 0.0573        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.4400e-003        |               | 0.2574        | 0.2574        |                | 0.2368        | 0.2368        |          | 818.0056        | 818.0056        | 0.2646        |     | 824.6196        |
| <b>Total</b>  | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.4400e-003</b> | <b>0.5303</b> | <b>0.2574</b> | <b>0.7876</b> | <b>0.0573</b>  | <b>0.2368</b> | <b>0.2940</b> |          | <b>818.0056</b> | <b>818.0056</b> | <b>0.2646</b> |     | <b>824.6196</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0128        | 1.1100e-003        | 0.0139        | 3.6800e-003    | 1.0600e-003        | 4.7400e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0261        | 0.0160        | 0.1815        | 6.2000e-004        | 0.0671        | 4.4000e-004        | 0.0675        | 0.0178         | 4.1000e-004        | 0.0182        |          | 61.8973         | 61.8973         | 1.4100e-003        |     | 61.9326         |
| <b>Total</b> | <b>0.0327</b> | <b>0.2243</b> | <b>0.2418</b> | <b>1.1100e-003</b> | <b>0.0799</b> | <b>1.5500e-003</b> | <b>0.0814</b> | <b>0.0215</b>  | <b>1.4700e-003</b> | <b>0.0229</b> |          | <b>114.7905</b> | <b>114.7905</b> | <b>6.0200e-003</b> |     | <b>114.9410</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.2267        | 0.0000        | 0.2267        | 0.0245         | 0.0000        | 0.0245        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.6056        | 8.0507        | 2.3093        | 8.4400e-003        |               | 0.2574        | 0.2574        |                | 0.2368        | 0.2368        | 0.0000        | 818.0056        | 818.0056        | 0.2646        |     | 824.6196        |
| <b>Total</b>  | <b>0.6056</b> | <b>8.0507</b> | <b>2.3093</b> | <b>8.4400e-003</b> | <b>0.2267</b> | <b>0.2574</b> | <b>0.4841</b> | <b>0.0245</b>  | <b>0.2368</b> | <b>0.2613</b> | <b>0.0000</b> | <b>818.0056</b> | <b>818.0056</b> | <b>0.2646</b> |     | <b>824.6196</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0120        | 1.1100e-003        | 0.0131        | 3.4800e-003    | 1.0600e-003        | 4.5300e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0261        | 0.0160        | 0.1815        | 6.2000e-004        | 0.0618        | 4.4000e-004        | 0.0623        | 0.0165         | 4.1000e-004        | 0.0169        |          | 61.8973         | 61.8973         | 1.4100e-003        |     | 61.9326         |
| <b>Total</b> | <b>0.0327</b> | <b>0.2243</b> | <b>0.2418</b> | <b>1.1100e-003</b> | <b>0.0738</b> | <b>1.5500e-003</b> | <b>0.0753</b> | <b>0.0200</b>  | <b>1.4700e-003</b> | <b>0.0214</b> |          | <b>114.7905</b> | <b>114.7905</b> | <b>6.0200e-003</b> |     | <b>114.9410</b> |

### **3.10 Parking Structure Excavation/Shoring/Hauling - 2020**

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |               |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.5283        | 17.6714        | 9.5863        | 0.0358        |               | 0.6156        | 0.6156        |                | 0.5664        | 0.5664        |          | 3,464.9274        | 3,464.9274        | 1.1206        |     | 3,492.9431        |
| <b>Total</b>  | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b> | <b>0.0358</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>0.0000</b>  | <b>0.5664</b> | <b>0.5664</b> |          | <b>3,464.9274</b> | <b>3,464.9274</b> | <b>1.1206</b> |     | <b>3,492.9431</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.6772        | 24.3627        | 6.4007        | 0.0660        | 1.5235        | 0.0793        | 1.6029        | 0.4171         | 0.0759        | 0.4930        |          | 7,351.5743        | 7,351.5743        | 0.7921        |     | 7,371.3773        |
| Vendor       | 6.6700e-003   | 0.2083         | 0.0603        | 4.9000e-004   | 0.0128        | 1.1100e-003   | 0.0139        | 3.6800e-003    | 1.0600e-003   | 4.7400e-003   |          | 52.8932           | 52.8932           | 4.6100e-003   |     | 53.0084           |
| Worker       | 0.0869        | 0.0532         | 0.6051        | 2.0700e-003   | 0.2236        | 1.4800e-003   | 0.2250        | 0.0593         | 1.3600e-003   | 0.0607        |          | 206.3242          | 206.3242          | 4.7100e-003   |     | 206.4419          |
| <b>Total</b> | <b>0.7707</b> | <b>24.6242</b> | <b>7.0661</b> | <b>0.0685</b> | <b>1.7599</b> | <b>0.0819</b> | <b>1.8418</b> | <b>0.4800</b>  | <b>0.0783</b> | <b>0.5584</b> |          | <b>7,610.7917</b> | <b>7,610.7917</b> | <b>0.8014</b> |     | <b>7,630.8276</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |               |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.5283        | 17.6714        | 9.5863        | 0.0358        |               | 0.6156        | 0.6156        |                | 0.5664        | 0.5664        | 0.0000        | 3,464.9274        | 3,464.9274        | 1.1206        |     | 3,492.9431        |
| <b>Total</b>  | <b>1.5283</b> | <b>17.6714</b> | <b>9.5863</b> | <b>0.0358</b> | <b>0.0000</b> | <b>0.6156</b> | <b>0.6156</b> | <b>0.0000</b>  | <b>0.5664</b> | <b>0.5664</b> | <b>0.0000</b> | <b>3,464.9274</b> | <b>3,464.9274</b> | <b>1.1206</b> |     | <b>3,492.9431</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.6772        | 24.3627        | 6.4007        | 0.0660        | 1.4194        | 0.0793        | 1.4987        | 0.3915         | 0.0759        | 0.4674        |          | 7,351.5743        | 7,351.5743        | 0.7921        |     | 7,371.3773        |
| Vendor       | 6.6700e-003   | 0.2083         | 0.0603        | 4.9000e-004   | 0.0120        | 1.1100e-003   | 0.0131        | 3.4800e-003    | 1.0600e-003   | 4.5300e-003   |          | 52.8932           | 52.8932           | 4.6100e-003   |     | 53.0084           |
| Worker       | 0.0869        | 0.0532         | 0.6051        | 2.0700e-003   | 0.2061        | 1.4800e-003   | 0.2075        | 0.0550         | 1.3600e-003   | 0.0564        |          | 206.3242          | 206.3242          | 4.7100e-003   |     | 206.4419          |
| <b>Total</b> | <b>0.7707</b> | <b>24.6242</b> | <b>7.0661</b> | <b>0.0685</b> | <b>1.6374</b> | <b>0.0819</b> | <b>1.7193</b> | <b>0.4500</b>  | <b>0.0783</b> | <b>0.5283</b> |          | <b>7,610.7917</b> | <b>7,610.7917</b> | <b>0.8014</b> |     | <b>7,630.8276</b> |

### **3.11 Wet Utility Installation - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.4938        | 16.5585        | 10.2054        | 0.0371        |               | 0.6055        | 0.6055        |                | 0.5570        | 0.5570        |          | 3,591.8860        | 3,591.8860        | 1.1617        |     | 3,620.9282        |
| <b>Total</b> | <b>1.4938</b> | <b>16.5585</b> | <b>10.2054</b> | <b>0.0371</b> |               | <b>0.6055</b> | <b>0.6055</b> |                | <b>0.5570</b> | <b>0.5570</b> |          | <b>3,591.8860</b> | <b>3,591.8860</b> | <b>1.1617</b> |     | <b>3,620.9282</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0133        | 0.4166        | 0.1206        | 9.7000e-004        | 0.0256        | 2.2100e-003        | 0.0278        | 7.3500e-003    | 2.1200e-003        | 9.4700e-003   |          | 105.7864        | 105.7864        | 9.2100e-003   |     | 106.0168        |
| Worker       | 0.1477        | 0.0905        | 1.0286        | 3.5200e-003        | 0.3800        | 2.5100e-003        | 0.3826        | 0.1008         | 2.3100e-003        | 0.1031        |          | 350.7512        | 350.7512        | 8.0000e-003   |     | 350.9513        |
| <b>Total</b> | <b>0.1610</b> | <b>0.5070</b> | <b>1.1492</b> | <b>4.4900e-003</b> | <b>0.4056</b> | <b>4.7200e-003</b> | <b>0.4103</b> | <b>0.1081</b>  | <b>4.4300e-003</b> | <b>0.1126</b> |          | <b>456.5376</b> | <b>456.5376</b> | <b>0.0172</b> |     | <b>456.9680</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.4938        | 16.5585        | 10.2054        | 0.0371        |               | 0.6055        | 0.6055        |                | 0.5570        | 0.5570        | 0.0000        | 3,591.8860        | 3,591.8860        | 1.1617        |     | 3,620.9282        |
| <b>Total</b> | <b>1.4938</b> | <b>16.5585</b> | <b>10.2054</b> | <b>0.0371</b> |               | <b>0.6055</b> | <b>0.6055</b> |                | <b>0.5570</b> | <b>0.5570</b> | <b>0.0000</b> | <b>3,591.8860</b> | <b>3,591.8860</b> | <b>1.1617</b> |     | <b>3,620.9282</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0133        | 0.4166        | 0.1206        | 9.7000e-004        | 0.0239        | 2.2100e-003        | 0.0261        | 6.9500e-003    | 2.1200e-003        | 9.0700e-003   |          | 105.7864        | 105.7864        | 9.2100e-003   |     | 106.0168        |
| Worker       | 0.1477        | 0.0905        | 1.0286        | 3.5200e-003        | 0.3503        | 2.5100e-003        | 0.3528        | 0.0935         | 2.3100e-003        | 0.0958        |          | 350.7512        | 350.7512        | 8.0000e-003   |     | 350.9513        |
| <b>Total</b> | <b>0.1610</b> | <b>0.5070</b> | <b>1.1492</b> | <b>4.4900e-003</b> | <b>0.3742</b> | <b>4.7200e-003</b> | <b>0.3790</b> | <b>0.1004</b>  | <b>4.4300e-003</b> | <b>0.1049</b> |          | <b>456.5376</b> | <b>456.5376</b> | <b>0.0172</b> |     | <b>456.9680</b> |

### **3.12 Multi-Use Structure - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.8952        | 19.1157        | 13.5663        | 0.0297        |               | 1.0279        | 1.0279        |                | 0.9457        | 0.9457        |          | 2,874.4965        | 2,874.4965        | 0.9297        |     | 2,897.7382        |
| <b>Total</b> | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>0.0297</b> |               | <b>1.0279</b> | <b>1.0279</b> |                | <b>0.9457</b> | <b>0.9457</b> |          | <b>2,874.4965</b> | <b>2,874.4965</b> | <b>0.9297</b> |     | <b>2,897.7382</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2836        | 8.8522        | 2.5618        | 0.0207        | 0.5431        | 0.0470        | 0.5901        | 0.1563         | 0.0450        | 0.2012        |          | 2,247.9613        | 2,247.9613        | 0.1958        |     | 2,252.8563        |
| Worker       | 0.5211        | 0.3193        | 3.6305        | 0.0124        | 1.3413        | 8.8700e-003   | 1.3502        | 0.3557         | 8.1700e-003   | 0.3639        |          | 1,237.9454        | 1,237.9454        | 0.0282        |     | 1,238.6515        |
| <b>Total</b> | <b>0.8047</b> | <b>9.1714</b> | <b>6.1922</b> | <b>0.0331</b> | <b>1.8844</b> | <b>0.0559</b> | <b>1.9403</b> | <b>0.5120</b>  | <b>0.0531</b> | <b>0.5651</b> |          | <b>3,485.9067</b> | <b>3,485.9067</b> | <b>0.2240</b> |     | <b>3,491.5078</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.8952        | 19.1157        | 13.5663        | 0.0297        |               | 1.0279        | 1.0279        |                | 0.9457        | 0.9457        | 0.0000        | 2,874.4964        | 2,874.4964        | 0.9297        |     | 2,897.7382        |
| <b>Total</b> | <b>1.8952</b> | <b>19.1157</b> | <b>13.5663</b> | <b>0.0297</b> |               | <b>1.0279</b> | <b>1.0279</b> |                | <b>0.9457</b> | <b>0.9457</b> | <b>0.0000</b> | <b>2,874.4964</b> | <b>2,874.4964</b> | <b>0.9297</b> |     | <b>2,897.7382</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2836        | 8.8522        | 2.5618        | 0.0207        | 0.5082        | 0.0470        | 0.5552        | 0.1477         | 0.0450        | 0.1927        |          | 2,247.9613        | 2,247.9613        | 0.1958        |     | 2,252.8563        |
| Worker       | 0.5211        | 0.3193        | 3.6305        | 0.0124        | 1.2364        | 8.8700e-003   | 1.2452        | 0.3300         | 8.1700e-003   | 0.3381        |          | 1,237.9454        | 1,237.9454        | 0.0282        |     | 1,238.6515        |
| <b>Total</b> | <b>0.8047</b> | <b>9.1714</b> | <b>6.1922</b> | <b>0.0331</b> | <b>1.7446</b> | <b>0.0559</b> | <b>1.8004</b> | <b>0.4777</b>  | <b>0.0531</b> | <b>0.5308</b> |          | <b>3,485.9067</b> | <b>3,485.9067</b> | <b>0.2240</b> |     | <b>3,491.5078</b> |

### 3.12 Multi-Use Structure - 2021

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.7486        | 17.6537        | 13.4017        | 0.0297        |               | 0.9192        | 0.9192        |                | 0.8456        | 0.8456        |          | 2,874.4354        | 2,874.4354        | 0.9297        |     | 2,897.6767        |
| <b>Total</b> | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>0.0297</b> |               | <b>0.9192</b> | <b>0.9192</b> |                | <b>0.8456</b> | <b>0.8456</b> |          | <b>2,874.4354</b> | <b>2,874.4354</b> | <b>0.9297</b> |     | <b>2,897.6767</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2381        | 7.9554        | 2.3726        | 0.0205        | 0.5431        | 0.0172        | 0.5603        | 0.1563         | 0.0164        | 0.1727        |          | 2,228.6065        | 2,228.6065        | 0.1879        |     | 2,233.3044        |
| Worker       | 0.4904        | 0.2880        | 3.3632        | 0.0120        | 1.3413        | 8.6800e-003   | 1.3500        | 0.3557         | 7.9900e-003   | 0.3637        |          | 1,194.9986        | 1,194.9986        | 0.0256        |     | 1,195.6384        |
| <b>Total</b> | <b>0.7285</b> | <b>8.2434</b> | <b>5.7358</b> | <b>0.0324</b> | <b>1.8844</b> | <b>0.0259</b> | <b>1.9103</b> | <b>0.5120</b>  | <b>0.0244</b> | <b>0.5364</b> |          | <b>3,423.6051</b> | <b>3,423.6051</b> | <b>0.2135</b> |     | <b>3,428.9427</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.7486        | 17.6537        | 13.4017        | 0.0297        |               | 0.9192        | 0.9192        |                | 0.8456        | 0.8456        | 0.0000        | 2,874.4354        | 2,874.4354        | 0.9297        |     | 2,897.6767        |
| <b>Total</b> | <b>1.7486</b> | <b>17.6537</b> | <b>13.4017</b> | <b>0.0297</b> |               | <b>0.9192</b> | <b>0.9192</b> |                | <b>0.8456</b> | <b>0.8456</b> | <b>0.0000</b> | <b>2,874.4354</b> | <b>2,874.4354</b> | <b>0.9297</b> |     | <b>2,897.6767</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2381        | 7.9554        | 2.3726        | 0.0205        | 0.5082        | 0.0172        | 0.5254        | 0.1477         | 0.0164        | 0.1642        |          | 2,228.6065        | 2,228.6065        | 0.1879        |     | 2,233.3044        |
| Worker       | 0.4904        | 0.2880        | 3.3632        | 0.0120        | 1.2364        | 8.6800e-003   | 1.2451        | 0.3300         | 7.9900e-003   | 0.3380        |          | 1,194.9986        | 1,194.9986        | 0.0256        |     | 1,195.6384        |
| <b>Total</b> | <b>0.7285</b> | <b>8.2434</b> | <b>5.7358</b> | <b>0.0324</b> | <b>1.7446</b> | <b>0.0259</b> | <b>1.7704</b> | <b>0.4777</b>  | <b>0.0244</b> | <b>0.5021</b> |          | <b>3,423.6051</b> | <b>3,423.6051</b> | <b>0.2135</b> |     | <b>3,428.9427</b> |

### 3.12 Multi-Use Structure - 2022

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.6052        | 16.2515        | 13.2378        | 0.0297        |               | 0.8099        | 0.8099        |                | 0.7451        | 0.7451        |          | 2,874.5760        | 2,874.5760        | 0.9297        |     | 2,897.8184        |
| <b>Total</b> | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>0.0297</b> |               | <b>0.8099</b> | <b>0.8099</b> |                | <b>0.7451</b> | <b>0.7451</b> |          | <b>2,874.5760</b> | <b>2,874.5760</b> | <b>0.9297</b> |     | <b>2,897.8184</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2239        | 7.5212        | 2.2876        | 0.0202        | 0.5431        | 0.0150        | 0.5580        | 0.1563         | 0.0143        | 0.1706        |          | 2,206.5090        | 2,206.5090        | 0.1817        |     | 2,211.0510        |
| Worker       | 0.4646        | 0.2609        | 3.1342        | 0.0115        | 1.3413        | 8.5100e-003   | 1.3498        | 0.3557         | 7.8400e-003   | 0.3636        |          | 1,150.7745        | 1,150.7745        | 0.0232        |     | 1,151.3551        |
| <b>Total</b> | <b>0.6885</b> | <b>7.7821</b> | <b>5.4218</b> | <b>0.0318</b> | <b>1.8844</b> | <b>0.0235</b> | <b>1.9079</b> | <b>0.5120</b>  | <b>0.0222</b> | <b>0.5342</b> |          | <b>3,357.2835</b> | <b>3,357.2835</b> | <b>0.2049</b> |     | <b>3,362.4061</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.6052        | 16.2515        | 13.2378        | 0.0297        |               | 0.8099        | 0.8099        |                | 0.7451        | 0.7451        | 0.0000        | 2,874.5760        | 2,874.5760        | 0.9297        |     | 2,897.8184        |
| <b>Total</b> | <b>1.6052</b> | <b>16.2515</b> | <b>13.2378</b> | <b>0.0297</b> |               | <b>0.8099</b> | <b>0.8099</b> |                | <b>0.7451</b> | <b>0.7451</b> | <b>0.0000</b> | <b>2,874.5760</b> | <b>2,874.5760</b> | <b>0.9297</b> |     | <b>2,897.8184</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.2239        | 7.5212        | 2.2876        | 0.0202        | 0.5082        | 0.0150        | 0.5231        | 0.1477         | 0.0143        | 0.1620        |          | 2,206.5090        | 2,206.5090        | 0.1817        |     | 2,211.0510        |
| Worker       | 0.4646        | 0.2609        | 3.1342        | 0.0115        | 1.2364        | 8.5100e-003   | 1.2449        | 0.3300         | 7.8400e-003   | 0.3378        |          | 1,150.7745        | 1,150.7745        | 0.0232        |     | 1,151.3551        |
| <b>Total</b> | <b>0.6885</b> | <b>7.7821</b> | <b>5.4218</b> | <b>0.0318</b> | <b>1.7445</b> | <b>0.0235</b> | <b>1.7680</b> | <b>0.4777</b>  | <b>0.0222</b> | <b>0.4998</b> |          | <b>3,357.2835</b> | <b>3,357.2835</b> | <b>0.2049</b> |     | <b>3,362.4061</b> |

### 3.12 Multi-Use Structure - 2023

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.5206        | 14.9076        | 13.1767        | 0.0297        |               | 0.7390        | 0.7390        |                | 0.6799        | 0.6799        |          | 2,875.2167        | 2,875.2167        | 0.9299        |     | 2,898.4643        |
| <b>Total</b> | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>0.0297</b> |               | <b>0.7390</b> | <b>0.7390</b> |                | <b>0.6799</b> | <b>0.6799</b> |          | <b>2,875.2167</b> | <b>2,875.2167</b> | <b>0.9299</b> |     | <b>2,898.4643</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1705        | 5.6614        | 2.1021        | 0.0196        | 0.5431        | 7.2800e-003   | 0.5503        | 0.1563         | 6.9600e-003   | 0.1632        |          | 2,140.3787        | 2,140.3787        | 0.1680        |     | 2,144.5783        |
| Worker       | 0.4413        | 0.2368        | 2.9183        | 0.0111        | 1.3413        | 8.3700e-003   | 1.3497        | 0.3557         | 7.7000e-003   | 0.3634        |          | 1,106.5901        | 1,106.5901        | 0.0210        |     | 1,107.1161        |
| <b>Total</b> | <b>0.6118</b> | <b>5.8982</b> | <b>5.0204</b> | <b>0.0307</b> | <b>1.8844</b> | <b>0.0157</b> | <b>1.9000</b> | <b>0.5120</b>  | <b>0.0147</b> | <b>0.5267</b> |          | <b>3,246.9687</b> | <b>3,246.9687</b> | <b>0.1890</b> |     | <b>3,251.6944</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.5206        | 14.9076        | 13.1767        | 0.0297        |               | 0.7390        | 0.7390        |                | 0.6799        | 0.6799        | 0.0000        | 2,875.2167        | 2,875.2167        | 0.9299        |     | 2,898.4643        |
| <b>Total</b> | <b>1.5206</b> | <b>14.9076</b> | <b>13.1767</b> | <b>0.0297</b> |               | <b>0.7390</b> | <b>0.7390</b> |                | <b>0.6799</b> | <b>0.6799</b> | <b>0.0000</b> | <b>2,875.2167</b> | <b>2,875.2167</b> | <b>0.9299</b> |     | <b>2,898.4643</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Vendor       | 0.1705        | 5.6614        | 2.1021        | 0.0196        | 0.5082        | 7.2800e-003   | 0.5154        | 0.1477         | 6.9600e-003   | 0.1547        |          | 2,140.3787        | 2,140.3787        | 0.1680        |     | 2,144.5783        |
| Worker       | 0.4413        | 0.2368        | 2.9183        | 0.0111        | 1.2364        | 8.3700e-003   | 1.2447        | 0.3300         | 7.7000e-003   | 0.3377        |          | 1,106.5901        | 1,106.5901        | 0.0210        |     | 1,107.1161        |
| <b>Total</b> | <b>0.6118</b> | <b>5.8982</b> | <b>5.0204</b> | <b>0.0307</b> | <b>1.7445</b> | <b>0.0157</b> | <b>1.7602</b> | <b>0.4777</b>  | <b>0.0147</b> | <b>0.4923</b> |          | <b>3,246.9687</b> | <b>3,246.9687</b> | <b>0.1890</b> |     | <b>3,251.6944</b> |

### **3.13 Structural Concrete - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.1809        | 13.2563        | 11.3889        | 0.0193        |               | 0.6366        | 0.6366        |                | 0.5868        | 0.5868        |          | 1,853.3983        | 1,853.3983        | 0.5883        |     | 1,868.1067        |
| Paving       | 4.7600e-003   |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b> |               | <b>0.6366</b> | <b>0.6366</b> |                | <b>0.5868</b> | <b>0.5868</b> |          | <b>1,853.3983</b> | <b>1,853.3983</b> | <b>0.5883</b> |     | <b>1,868.1067</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1737        | 0.1064        | 1.2102        | 4.1400e-003        | 0.4471        | 2.9600e-003        | 0.4501        | 0.1186         | 2.7200e-003        | 0.1213        |          | 412.6485        | 412.6485        | 9.4100e-003        |     | 412.8838        |
| <b>Total</b> | <b>0.1737</b> | <b>0.1064</b> | <b>1.2102</b> | <b>4.1400e-003</b> | <b>0.4471</b> | <b>2.9600e-003</b> | <b>0.4501</b> | <b>0.1186</b>  | <b>2.7200e-003</b> | <b>0.1213</b> |          | <b>412.6485</b> | <b>412.6485</b> | <b>9.4100e-003</b> |     | <b>412.8838</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.1809        | 13.2563        | 11.3889        | 0.0193        |               | 0.6366        | 0.6366        |                | 0.5868        | 0.5868        | 0.0000        | 1,853.3983        | 1,853.3983        | 0.5883        |     | 1,868.1067        |
| Paving       | 4.7600e-003   |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.1856</b> | <b>13.2563</b> | <b>11.3889</b> | <b>0.0193</b> |               | <b>0.6366</b> | <b>0.6366</b> |                | <b>0.5868</b> | <b>0.5868</b> | <b>0.0000</b> | <b>1,853.3983</b> | <b>1,853.3983</b> | <b>0.5883</b> |     | <b>1,868.1067</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.1737        | 0.1064        | 1.2102        | 4.1400e-003        | 0.4121        | 2.9600e-003        | 0.4151        | 0.1100         | 2.7200e-003        | 0.1127        |          | 412.6485        | 412.6485        | 9.4100e-003        |     | 412.8838        |
| <b>Total</b> | <b>0.1737</b> | <b>0.1064</b> | <b>1.2102</b> | <b>4.1400e-003</b> | <b>0.4121</b> | <b>2.9600e-003</b> | <b>0.4151</b> | <b>0.1100</b>  | <b>2.7200e-003</b> | <b>0.1127</b> |          | <b>412.6485</b> | <b>412.6485</b> | <b>9.4100e-003</b> |     | <b>412.8838</b> |

### 3.14 Dry Utility Installation - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.5415        | 6.1106        | 4.3684        | 0.0113        |               | 0.2356        | 0.2356        |                | 0.2168        | 0.2168        |          | 1,093.6335        | 1,093.6335        | 0.3537        |     | 1,102.4761        |
| <b>Total</b> | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>0.0113</b> |               | <b>0.2356</b> | <b>0.2356</b> |                | <b>0.2168</b> | <b>0.2168</b> |          | <b>1,093.6335</b> | <b>1,093.6335</b> | <b>0.3537</b> |     | <b>1,102.4761</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0128        | 1.1100e-003        | 0.0139        | 3.6800e-003    | 1.0600e-003        | 4.7400e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0782        | 0.0479        | 0.5446        | 1.8600e-003        | 0.2012        | 1.3300e-003        | 0.2025        | 0.0534         | 1.2300e-003        | 0.0546        |          | 185.6918        | 185.6918        | 4.2400e-003        |     | 185.7977        |
| <b>Total</b> | <b>0.0848</b> | <b>0.2562</b> | <b>0.6049</b> | <b>2.3500e-003</b> | <b>0.2140</b> | <b>2.4400e-003</b> | <b>0.2164</b> | <b>0.0570</b>  | <b>2.2900e-003</b> | <b>0.0593</b> |          | <b>238.5850</b> | <b>238.5850</b> | <b>8.8500e-003</b> |     | <b>238.8061</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 0.5415        | 6.1106        | 4.3684        | 0.0113        |               | 0.2356        | 0.2356        |                | 0.2168        | 0.2168        | 0.0000        | 1,093.6335        | 1,093.6335        | 0.3537        |     | 1,102.4761        |
| <b>Total</b> | <b>0.5415</b> | <b>6.1106</b> | <b>4.3684</b> | <b>0.0113</b> |               | <b>0.2356</b> | <b>0.2356</b> |                | <b>0.2168</b> | <b>0.2168</b> | <b>0.0000</b> | <b>1,093.6335</b> | <b>1,093.6335</b> | <b>0.3537</b> |     | <b>1,102.4761</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0120        | 1.1100e-003        | 0.0131        | 3.4800e-003    | 1.0600e-003        | 4.5300e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0782        | 0.0479        | 0.5446        | 1.8600e-003        | 0.1855        | 1.3300e-003        | 0.1868        | 0.0495         | 1.2300e-003        | 0.0507        |          | 185.6918        | 185.6918        | 4.2400e-003        |     | 185.7977        |
| <b>Total</b> | <b>0.0848</b> | <b>0.2562</b> | <b>0.6049</b> | <b>2.3500e-003</b> | <b>0.1974</b> | <b>2.4400e-003</b> | <b>0.1999</b> | <b>0.0530</b>  | <b>2.2900e-003</b> | <b>0.0553</b> |          | <b>238.5850</b> | <b>238.5850</b> | <b>8.8500e-003</b> |     | <b>238.8061</b> |

### **3.15 Street Improvements - Balancing / Aggregate Base - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 2.1938        | 25.9636        | 15.3699        | 0.0318        |               | 1.0758        | 1.0758        |                | 0.9897        | 0.9897        |          | 3,082.6204        | 3,082.6204        | 0.9970        |     | 3,107.5449        |
| Paving       | 0.1991        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b> |               | <b>1.0758</b> | <b>1.0758</b> |                | <b>0.9897</b> | <b>0.9897</b> |          | <b>3,082.6204</b> | <b>3,082.6204</b> | <b>0.9970</b> |     | <b>3,107.5449</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0128        | 1.1100e-003        | 0.0139        | 3.6800e-003    | 1.0600e-003        | 4.7400e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1916</b> | <b>2.2900e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1500e-003</b> | <b>0.0533</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 2.1938        | 25.9636        | 15.3699        | 0.0318        |               | 1.0758        | 1.0758        |                | 0.9897        | 0.9897        | 0.0000        | 3,082.6204        | 3,082.6204        | 0.9970        |     | 3,107.5449        |
| Paving       | 0.1991        |                |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>2.3929</b> | <b>25.9636</b> | <b>15.3699</b> | <b>0.0318</b> |               | <b>1.0758</b> | <b>1.0758</b> |                | <b>0.9897</b> | <b>0.9897</b> | <b>0.0000</b> | <b>3,082.6204</b> | <b>3,082.6204</b> | <b>0.9970</b> |     | <b>3,107.5449</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0120        | 1.1100e-003        | 0.0131        | 3.4800e-003    | 1.0600e-003        | 4.5300e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1768</b> | <b>2.2900e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1500e-003</b> | <b>0.0496</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### 3.16 Street Improvements - Curb & Gutter - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Paving       | 0.1991        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| <b>Total</b> | <b>0.1991</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0782        | 0.0479        | 0.5446        | 1.8600e-003        | 0.2012        | 1.3300e-003        | 0.2025        | 0.0534         | 1.2300e-003        | 0.0546        |          | 185.6918        | 185.6918        | 4.2400e-003        |     | 185.7977        |
| <b>Total</b> | <b>0.0782</b> | <b>0.0479</b> | <b>0.5446</b> | <b>1.8600e-003</b> | <b>0.2012</b> | <b>1.3300e-003</b> | <b>0.2025</b> | <b>0.0534</b>  | <b>1.2300e-003</b> | <b>0.0546</b> |          | <b>185.6918</b> | <b>185.6918</b> | <b>4.2400e-003</b> |     | <b>185.7977</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| Paving       | 0.1991        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |               | 0.0000        |               |     | 0.0000        |
| <b>Total</b> | <b>0.1991</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0782        | 0.0479        | 0.5446        | 1.8600e-003        | 0.1855        | 1.3300e-003        | 0.1868        | 0.0495         | 1.2300e-003        | 0.0507        |          | 185.6918        | 185.6918        | 4.2400e-003        |     | 185.7977        |
| <b>Total</b> | <b>0.0782</b> | <b>0.0479</b> | <b>0.5446</b> | <b>1.8600e-003</b> | <b>0.1855</b> | <b>1.3300e-003</b> | <b>0.1868</b> | <b>0.0495</b>  | <b>1.2300e-003</b> | <b>0.0507</b> |          | <b>185.6918</b> | <b>185.6918</b> | <b>4.2400e-003</b> |     | <b>185.7977</b> |

### **3.17 Asphalt Paving - 2020**

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 1.2414        | 14.6521        | 8.7696        | 0.0183        |               | 0.6216        | 0.6216        |                | 0.5719        | 0.5719        |          | 1,773.2090        | 1,773.2090        | 0.5735        |     | 1,787.5463        |
| Paving       | 0.4978        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b> |               | <b>0.6216</b> | <b>0.6216</b> |                | <b>0.5719</b> | <b>0.5719</b> |          | <b>1,773.2090</b> | <b>1,773.2090</b> | <b>0.5735</b> |     | <b>1,787.5463</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0521        | 0.0319        | 0.3630        | 1.2400e-003        | 0.1341        | 8.9000e-004        | 0.1350        | 0.0356         | 8.2000e-004        | 0.0364        |          | 123.7945        | 123.7945        | 2.8200e-003        |     | 123.8652        |
| <b>Total</b> | <b>0.0521</b> | <b>0.0319</b> | <b>0.3630</b> | <b>1.2400e-003</b> | <b>0.1341</b> | <b>8.9000e-004</b> | <b>0.1350</b> | <b>0.0356</b>  | <b>8.2000e-004</b> | <b>0.0364</b> |          | <b>123.7945</b> | <b>123.7945</b> | <b>2.8200e-003</b> |     | <b>123.8652</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 1.2414        | 14.6521        | 8.7696        | 0.0183        |               | 0.6216        | 0.6216        |                | 0.5719        | 0.5719        | 0.0000        | 1,773.2090        | 1,773.2090        | 0.5735        |     | 1,787.5463        |
| Paving       | 0.4978        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.7392</b> | <b>14.6521</b> | <b>8.7696</b> | <b>0.0183</b> |               | <b>0.6216</b> | <b>0.6216</b> |                | <b>0.5719</b> | <b>0.5719</b> | <b>0.0000</b> | <b>1,773.2090</b> | <b>1,773.2090</b> | <b>0.5735</b> |     | <b>1,787.5463</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0521        | 0.0319        | 0.3630        | 1.2400e-003        | 0.1236        | 8.9000e-004        | 0.1245        | 0.0330         | 8.2000e-004        | 0.0338        |          | 123.7945        | 123.7945        | 2.8200e-003        |     | 123.8652        |
| <b>Total</b> | <b>0.0521</b> | <b>0.0319</b> | <b>0.3630</b> | <b>1.2400e-003</b> | <b>0.1236</b> | <b>8.9000e-004</b> | <b>0.1245</b> | <b>0.0330</b>  | <b>8.2000e-004</b> | <b>0.0338</b> |          | <b>123.7945</b> | <b>123.7945</b> | <b>2.8200e-003</b> |     | <b>123.8652</b> |

### 3.18 Street Improvements - Concrete Flatwork - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.2009        | 2.0183        | 2.1857        | 2.9800e-003        |               | 0.1276        | 0.1276        |                | 0.1174        | 0.1174        |          | 288.3657        | 288.3657        | 0.0933        |     | 290.6973        |
| Paving       | 0.0905        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.9800e-003</b> |               | <b>0.1276</b> | <b>0.1276</b> |                | <b>0.1174</b> | <b>0.1174</b> |          | <b>288.3657</b> | <b>288.3657</b> | <b>0.0933</b> |     | <b>290.6973</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0695</b> | <b>0.0426</b> | <b>0.4841</b> | <b>1.6600e-003</b> | <b>0.1788</b> | <b>1.1800e-003</b> | <b>0.1800</b> | <b>0.0474</b>  | <b>1.0900e-003</b> | <b>0.0485</b> |          | <b>165.0594</b> | <b>165.0594</b> | <b>3.7700e-003</b> |     | <b>165.1535</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Off-Road     | 0.2009        | 2.0183        | 2.1857        | 2.9800e-003        |               | 0.1276        | 0.1276        |                | 0.1174        | 0.1174        | 0.0000        | 288.3657        | 288.3657        | 0.0933        |     | 290.6973        |
| Paving       | 0.0905        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.2914</b> | <b>2.0183</b> | <b>2.1857</b> | <b>2.9800e-003</b> |               | <b>0.1276</b> | <b>0.1276</b> |                | <b>0.1174</b> | <b>0.1174</b> | <b>0.0000</b> | <b>288.3657</b> | <b>288.3657</b> | <b>0.0933</b> |     | <b>290.6973</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0695</b> | <b>0.0426</b> | <b>0.4841</b> | <b>1.6600e-003</b> | <b>0.1649</b> | <b>1.1800e-003</b> | <b>0.1660</b> | <b>0.0440</b>  | <b>1.0900e-003</b> | <b>0.0451</b> |          | <b>165.0594</b> | <b>165.0594</b> | <b>3.7700e-003</b> |     | <b>165.1535</b> |

### **3.19 Architectural Coating - 2022**

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        |          | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>34.5923</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0929        | 0.0522        | 0.6268        | 2.3100e-003        | 0.2683        | 1.7000e-003        | 0.2700        | 0.0711         | 1.5700e-003        | 0.0727        |          | 230.1549        | 230.1549        | 4.6400e-003        |     | 230.2710        |
| <b>Total</b> | <b>0.0929</b> | <b>0.0522</b> | <b>0.6268</b> | <b>2.3100e-003</b> | <b>0.2683</b> | <b>1.7000e-003</b> | <b>0.2700</b> | <b>0.0711</b>  | <b>1.5700e-003</b> | <b>0.0727</b> |          | <b>230.1549</b> | <b>230.1549</b> | <b>4.6400e-003</b> |     | <b>230.2710</b> |

### Mitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2045         | 1.4085        | 1.8136        | 2.9700e-003        |               | 0.0817        | 0.0817        |                | 0.0817        | 0.0817        | 0.0000        | 281.4481        | 281.4481        | 0.0183        |     | 281.9062        |
| <b>Total</b>    | <b>34.5923</b> | <b>1.4085</b> | <b>1.8136</b> | <b>2.9700e-003</b> |               | <b>0.0817</b> | <b>0.0817</b> |                | <b>0.0817</b> | <b>0.0817</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0183</b> |     | <b>281.9062</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0929        | 0.0522        | 0.6268        | 2.3100e-003        | 0.2473        | 1.7000e-003        | 0.2490        | 0.0660         | 1.5700e-003        | 0.0676        |          | 230.1549        | 230.1549        | 4.6400e-003        |     | 230.2710        |
| <b>Total</b> | <b>0.0929</b> | <b>0.0522</b> | <b>0.6268</b> | <b>2.3100e-003</b> | <b>0.2473</b> | <b>1.7000e-003</b> | <b>0.2490</b> | <b>0.0660</b>  | <b>1.5700e-003</b> | <b>0.0676</b> |          | <b>230.1549</b> | <b>230.1549</b> | <b>4.6400e-003</b> |     | <b>230.2710</b> |

### **3.19 Architectural Coating - 2023**

#### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        |          | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>34.5795</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0474        | 0.5837        | 2.2200e-003        | 0.2683        | 1.6700e-003        | 0.2699        | 0.0711         | 1.5400e-003        | 0.0727        |          | 221.3180        | 221.3180        | 4.2100e-003        |     | 221.4232        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0474</b> | <b>0.5837</b> | <b>2.2200e-003</b> | <b>0.2683</b> | <b>1.6700e-003</b> | <b>0.2699</b> | <b>0.0711</b>  | <b>1.5400e-003</b> | <b>0.0727</b> |          | <b>221.3180</b> | <b>221.3180</b> | <b>4.2100e-003</b> |     | <b>221.4232</b> |

### Mitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Archit. Coating | 34.3878        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.1917         | 1.3030        | 1.8111        | 2.9700e-003        |               | 0.0708        | 0.0708        |                | 0.0708        | 0.0708        | 0.0000        | 281.4481        | 281.4481        | 0.0168        |     | 281.8690        |
| <b>Total</b>    | <b>34.5795</b> | <b>1.3030</b> | <b>1.8111</b> | <b>2.9700e-003</b> |               | <b>0.0708</b> | <b>0.0708</b> |                | <b>0.0708</b> | <b>0.0708</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0168</b> |     | <b>281.8690</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Worker       | 0.0883        | 0.0474        | 0.5837        | 2.2200e-003        | 0.2473        | 1.6700e-003        | 0.2490        | 0.0660         | 1.5400e-003        | 0.0675        |          | 221.3180        | 221.3180        | 4.2100e-003        |     | 221.4232        |
| <b>Total</b> | <b>0.0883</b> | <b>0.0474</b> | <b>0.5837</b> | <b>2.2200e-003</b> | <b>0.2473</b> | <b>1.6700e-003</b> | <b>0.2490</b> | <b>0.0660</b>  | <b>1.5400e-003</b> | <b>0.0675</b> |          | <b>221.3180</b> | <b>221.3180</b> | <b>4.2100e-003</b> |     | <b>221.4232</b> |

## Construction

### Orange County, Mitigation Report

### Construction Mitigation Summary

| Phase                                               | ROG  | NOx  | CO   | SO2  | Exhaust<br>PM10 | Exhaust<br>PM2.5 | Bio- CO2 | NBio-<br>CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-----------------------------------------------------|------|------|------|------|-----------------|------------------|----------|--------------|-----------|------|------|------|
| Percent Reduction                                   |      |      |      |      |                 |                  |          |              |           |      |      |      |
| Architectural Coating                               | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Asphalt Demo Debris Haul                            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Asphalt Demolition                                  | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Asphalt Paving                                      | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Building Demo Debris Haul                           | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Building Demolition                                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Dry Utility Installation                            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Fine Grading                                        | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Multi-Use Structure                                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Parking Structure                                   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Excavation/Shoring/Hauling                          | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Rough Grading                                       | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Rough Grading Soil Haul                             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Site Preparation                                    | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Street Improvements - Balancing /<br>Aggregate Base | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Street Improvements - Concrete Flatwork             | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Street Improvements - Curb & Gutter                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Structural Concrete                                 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |
| Wet Utility Installation                            | 0.00 | 0.00 | 0.00 | 0.00 | 0.00            | 0.00             | 0.00     | 0.00         | 0.00      | 0.00 | 0.00 | 0.00 |

## OFFROAD Equipment Mitigation

| Equipment Type            | Fuel Type | Tier      | Number Mitigated | Total Number of Equipment | DPF       | Oxidation Catalyst |
|---------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Air Compressors           | Diesel    | No Change | 0                | 1                         | No Change | 0.00               |
| Bore/Drill Rigs           | Diesel    | No Change | 0                | 1                         | No Change | 0.00               |
| Cement and Mortar Mixers  | Diesel    | No Change | 0                | 1                         | No Change | 0.00               |
| Concrete/Industrial Saws  | Diesel    | No Change | 0                | 0                         | No Change | 0.00               |
| Cranes                    | Diesel    | No Change | 0                | 5                         | No Change | 0.00               |
| Excavators                | Diesel    | No Change | 0                | 9                         | No Change | 0.00               |
| Forklifts                 | Diesel    | No Change | 0                | 2                         | No Change | 0.00               |
| Generator Sets            | Diesel    | No Change | 0                | 0                         | No Change | 0.00               |
| Graders                   | Diesel    | No Change | 0                | 4                         | No Change | 0.00               |
| Pavers                    | Diesel    | No Change | 0                | 1                         | No Change | 0.00               |
| Paving Equipment          | Diesel    | No Change | 0                | 0                         | No Change | 0.00               |
| Rollers                   | Diesel    | No Change | 0                | 2                         | No Change | 0.00               |
| Rough Terrain Forklifts   | Diesel    | No Change | 0                | 4                         | No Change | 0.00               |
| Rubber Tired Dozers       | Diesel    | No Change | 0                | 6                         | No Change | 0.00               |
| Scrapers                  | Diesel    | No Change | 0                | 2                         | No Change | 0.00               |
| Skid Steer Loaders        | Diesel    | No Change | 0                | 1                         | No Change | 0.00               |
| Tractors/Loaders/Backhoes | Diesel    | No Change | 0                | 14                        | No Change | 0.00               |
| Welders                   | Diesel    | No Change | 0                | 0                         | No Change | 0.00               |

| Equipment Type           | ROG          | NOx          | CO           | SO2          | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2          | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| Unmitigated tons/yr      |              |              |              |              |              |               | Unmitigated mt/yr |              |              |              |              |              |
| Air Compressors          | 6.72000E-003 | 4.61300E-002 | 6.07300E-002 | 1.00000E-004 | 2.63000E-003 | 2.63000E-003  | 0.00000E+000      | 8.55340E+000 | 8.55340E+000 | 5.40000E-004 | 0.00000E+000 | 8.56699E+000 |
| Bore/Drill Rigs          | 1.39000E-003 | 1.76100E-002 | 1.04000E-002 | 5.00000E-005 | 5.10000E-004 | 4.70000E-004  | 0.00000E+000      | 4.12681E+000 | 4.12681E+000 | 1.33000E-003 | 0.00000E+000 | 4.16018E+000 |
| Cement and Mortar Mixers | 6.14000E-003 | 3.84800E-002 | 3.22300E-002 | 7.00000E-005 | 1.50000E-003 | 1.50000E-003  | 0.00000E+000      | 4.78899E+000 | 4.78899E+000 | 5.00000E-004 | 0.00000E+000 | 4.80142E+000 |
| Concrete/Industrial Saws | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000      | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

|                           |              |              |              |              |              |              |              |              |              |              |              |              |
|---------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Cranes                    | 4.26190E-001 | 3.90631E+000 | 2.59303E+000 | 3.45000E-003 | 2.53810E-001 | 2.33500E-001 | 0.00000E+000 | 3.03345E+002 | 3.03345E+002 | 9.81100E-002 | 0.00000E+000 | 3.05798E+002 |
| Excavators                | 2.75600E-002 | 2.93640E-001 | 1.92600E-001 | 8.50000E-004 | 9.56000E-003 | 8.80000E-003 | 0.00000E+000 | 7.49825E+001 | 7.49825E+001 | 2.40000E-002 | 0.00000E+000 | 7.55826E+001 |
| Forklifts                 | 1.42150E-001 | 1.34426E+000 | 1.51083E+000 | 2.28000E-003 | 7.23700E-002 | 6.65800E-002 | 0.00000E+000 | 2.00723E+002 | 2.00723E+002 | 6.49200E-002 | 0.00000E+000 | 2.02346E+002 |
| Generator Sets            | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Graders                   | 5.77000E-003 | 7.68000E-002 | 2.19700E-002 | 8.00000E-005 | 2.46000E-003 | 2.26000E-003 | 0.00000E+000 | 7.06699E+000 | 7.06699E+000 | 2.28000E-003 | 0.00000E+000 | 7.12400E+000 |
| Pavers                    | 3.50000E-004 | 3.74000E-003 | 3.86000E-003 | 1.00000E-005 | 1.80000E-004 | 1.70000E-004 | 0.00000E+000 | 5.49630E-001 | 5.49630E-001 | 1.80000E-004 | 0.00000E+000 | 5.54070E-001 |
| Paving Equipment          | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rollers                   | 1.00000E-003 | 1.00200E-002 | 9.11000E-003 | 1.00000E-005 | 6.40000E-004 | 5.90000E-004 | 0.00000E+000 | 1.10921E+000 | 1.10921E+000 | 3.60000E-004 | 0.00000E+000 | 1.11818E+000 |
| Rough Terrain Forklifts   | 1.76390E-001 | 2.43655E+000 | 1.74921E+000 | 7.02000E-003 | 6.25900E-002 | 5.75800E-002 | 0.00000E+000 | 6.16072E+002 | 6.16072E+002 | 1.99250E-001 | 0.00000E+000 | 6.21053E+002 |
| Rubber Tired Dozers       | 4.91600E-002 | 5.35150E-001 | 4.00570E-001 | 4.30000E-004 | 2.42600E-002 | 2.23200E-002 | 0.00000E+000 | 3.87300E+001 | 3.87300E+001 | 1.22600E-002 | 0.00000E+000 | 3.90366E+001 |
| Scrapers                  | 4.48000E-003 | 5.34200E-002 | 3.37500E-002 | 7.00000E-005 | 2.09000E-003 | 1.92000E-003 | 0.00000E+000 | 5.93662E+000 | 5.93662E+000 | 1.91000E-003 | 0.00000E+000 | 5.98436E+000 |
| Skid Steer Loaders        | 9.80000E-004 | 1.30000E-002 | 1.60400E-002 | 2.00000E-005 | 6.00000E-004 | 5.50000E-004 | 0.00000E+000 | 2.14179E+000 | 2.14179E+000 | 6.80000E-004 | 0.00000E+000 | 2.15873E+000 |
| Tractors/Loaders/Backhoes | 7.41800E-002 | 7.89550E-001 | 6.82070E-001 | 1.30000E-003 | 4.08900E-002 | 3.76200E-002 | 0.00000E+000 | 1.14483E+002 | 1.14483E+002 | 3.69200E-002 | 0.00000E+000 | 1.15406E+002 |
| Welders                   | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

| Equipment Type           | ROG          | NOx          | CO           | SO2          | Exhaust PM10 | Exhaust PM2.5   | Bio- CO2     | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|--------------------------|--------------|--------------|--------------|--------------|--------------|-----------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Mitigated tons/yr        |              |              |              |              |              | Mitigated mt/yr |              |              |              |              |              |              |
| Air Compressors          | 6.72000E-003 | 4.61300E-002 | 6.07300E-002 | 1.00000E-004 | 2.63000E-003 | 2.63000E-003    | 0.00000E+000 | 8.55339E+000 | 8.55339E+000 | 5.40000E-004 | 0.00000E+000 | 8.56697E+000 |
| Bore/Drill Rigs          | 1.39000E-003 | 1.76100E-002 | 1.04000E-002 | 5.00000E-005 | 5.10000E-004 | 4.70000E-004    | 0.00000E+000 | 4.12681E+000 | 4.12681E+000 | 1.33000E-003 | 0.00000E+000 | 4.16018E+000 |
| Cement and Mortar Mixers | 6.14000E-003 | 3.84800E-002 | 3.22300E-002 | 7.00000E-005 | 1.50000E-003 | 1.50000E-003    | 0.00000E+000 | 4.78898E+000 | 4.78898E+000 | 5.00000E-004 | 0.00000E+000 | 4.80141E+000 |
| Concrete/Industrial Saws | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Cranes                   | 4.26190E-001 | 3.90631E+000 | 2.59302E+000 | 3.45000E-003 | 2.53810E-001 | 2.33500E-001    | 0.00000E+000 | 3.03345E+002 | 3.03345E+002 | 9.81100E-002 | 0.00000E+000 | 3.05798E+002 |
| Excavators               | 2.75600E-002 | 2.93640E-001 | 1.92600E-001 | 8.50000E-004 | 9.56000E-003 | 8.80000E-003    | 0.00000E+000 | 7.49824E+001 | 7.49824E+001 | 2.40000E-002 | 0.00000E+000 | 7.55825E+001 |
| Forklifts                | 1.42150E-001 | 1.34426E+000 | 1.51083E+000 | 2.28000E-003 | 7.23700E-002 | 6.65800E-002    | 0.00000E+000 | 2.00723E+002 | 2.00723E+002 | 6.49200E-002 | 0.00000E+000 | 2.02346E+002 |
| Generator Sets           | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Graders                  | 5.77000E-003 | 7.68000E-002 | 2.19700E-002 | 8.00000E-005 | 2.46000E-003 | 2.26000E-003    | 0.00000E+000 | 7.06699E+000 | 7.06699E+000 | 2.28000E-003 | 0.00000E+000 | 7.12399E+000 |
| Pavers                   | 3.50000E-004 | 3.74000E-003 | 3.86000E-003 | 1.00000E-005 | 1.80000E-004 | 1.70000E-004    | 0.00000E+000 | 5.49630E-001 | 5.49630E-001 | 1.80000E-004 | 0.00000E+000 | 5.54070E-001 |
| Paving Equipment         | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

|                               |              |              |              |              |              |              |              |              |              |              |              |              |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Rollers                       | 1.00000E-003 | 1.00200E-002 | 9.11000E-003 | 1.00000E-005 | 6.40000E-004 | 5.90000E-004 | 0.00000E+000 | 1.10921E+000 | 1.10921E+000 | 3.60000E-004 | 0.00000E+000 | 1.11818E+000 |
| Rough Terrain Forklifts       | 1.76390E-001 | 2.43655E+000 | 1.74920E+000 | 7.02000E-003 | 6.25800E-002 | 5.75800E-002 | 0.00000E+000 | 6.16071E+002 | 6.16071E+002 | 1.99250E-001 | 0.00000E+000 | 6.21052E+002 |
| Rubber Tired Dozers           | 4.91600E-002 | 5.35150E-001 | 4.00570E-001 | 4.30000E-004 | 2.42600E-002 | 2.23200E-002 | 0.00000E+000 | 3.87300E+001 | 3.87300E+001 | 1.22600E-002 | 0.00000E+000 | 3.90365E+001 |
| Scrapers                      | 4.48000E-003 | 5.34200E-002 | 3.37500E-002 | 7.00000E-005 | 2.09000E-003 | 1.92000E-003 | 0.00000E+000 | 5.93661E+000 | 5.93661E+000 | 1.91000E-003 | 0.00000E+000 | 5.98435E+000 |
| Skid Steer Loaders            | 9.80000E-004 | 1.30000E-002 | 1.60400E-002 | 2.00000E-005 | 6.00000E-004 | 5.50000E-004 | 0.00000E+000 | 2.14178E+000 | 2.14178E+000 | 6.80000E-004 | 0.00000E+000 | 2.15872E+000 |
| Tractors/Loaders/Bac<br>khoes | 7.41800E-002 | 7.89550E-001 | 6.82070E-001 | 1.30000E-003 | 4.08900E-002 | 3.76200E-002 | 0.00000E+000 | 1.14483E+002 | 1.14483E+002 | 3.69200E-002 | 0.00000E+000 | 1.15406E+002 |
| Welders                       | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

| Equipment Type                | ROG          | NOx          | CO           | SO2          | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2     | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction             |              |              |              |              |              |               |              |              |              |              |              |              |
| Air Compressors               | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.16913E-006 | 1.16913E-006 | 0.00000E+000 | 0.00000E+000 | 2.33454E-006 |
| Bore/Drill Rigs               | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Cement and Mortar Mixers      | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 2.08812E-006 | 2.08812E-006 | 0.00000E+000 | 0.00000E+000 | 2.08272E-006 |
| Concrete/Industrial Saws      | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Cranes                        | 0.00000E+000 | 0.00000E+000 | 3.85649E-006 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.18677E-006 | 1.18677E-006 | 0.00000E+000 | 0.00000E+000 | 1.17725E-006 |
| Excavators                    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.20028E-006 | 1.20028E-006 | 0.00000E+000 | 0.00000E+000 | 1.19075E-006 |
| Forklifts                     | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.19568E-006 | 1.19568E-006 | 0.00000E+000 | 0.00000E+000 | 1.18609E-006 |
| Generator Sets                | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Graders                       | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.40371E-006 |
| Pavers                        | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Paving Equipment              | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rollers                       | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rough Terrain Forklifts       | 0.00000E+000 | 0.00000E+000 | 5.71687E-006 | 0.00000E+000 | 1.59770E-004 | 0.00000E+000  | 0.00000E+000 | 1.18493E-006 | 1.18493E-006 | 0.00000E+000 | 0.00000E+000 | 1.19152E-006 |
| Rubber Tired Dozers           | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.29099E-006 | 1.29099E-006 | 0.00000E+000 | 0.00000E+000 | 1.02468E-006 |
| Scrapers                      | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.68446E-006 | 1.68446E-006 | 0.00000E+000 | 0.00000E+000 | 1.67102E-006 |
| Skid Steer Loaders            | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 4.66899E-006 | 4.66899E-006 | 0.00000E+000 | 0.00000E+000 | 4.63235E-006 |
| Tractors/Loaders/Bac<br>khoes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 1.22289E-006 | 1.22289E-006 | 0.00000E+000 | 0.00000E+000 | 1.21311E-006 |
| Welders                       | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |

## Fugitive Dust Mitigation

| Yes/No | Mitigation Measure                     | Mitigation Input   | Mitigation Input | Mitigation Input    |       |                          |
|--------|----------------------------------------|--------------------|------------------|---------------------|-------|--------------------------|
| No     | Soil Stabilizer for unpaved Roads      | PM10 Reduction     | 0.00             | PM2.5 Reduction     | 0.00  |                          |
| Yes    | Replace Ground Cover of Area Disturbed | PM10 Reduction     | 5.00             | PM2.5 Reduction     | 5.00  |                          |
| Yes    | Water Exposed Area                     | PM10 Reduction     | 55.00            | PM2.5 Reduction     | 55.00 | Frequency (per day) 2.00 |
| No     | Unpaved Road Mitigation                | Moisture Content % | 0.00             | Vehicle Speed (mph) | 15.00 |                          |
| Yes    | Clean Paved Road                       | % PM Reduction     | 9.00             |                     |       |                          |

| Phase                     | Source        | Unmitigated |       | Mitigated |       | Percent Reduction |       |
|---------------------------|---------------|-------------|-------|-----------|-------|-------------------|-------|
|                           |               | PM10        | PM2.5 | PM10      | PM2.5 | PM10              | PM2.5 |
| Architectural Coating     | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Architectural Coating     | Roads         | 0.01        | 0.00  | 0.01      | 0.00  | 0.08              | 0.07  |
| Asphalt Demo Debris Haul  | Fugitive Dust | 0.04        | 0.01  | 0.02      | 0.00  | 0.57              | 0.57  |
| Asphalt Demo Debris Haul  | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.06              | 0.00  |
| Asphalt Demolition        | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Asphalt Demolition        | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.00  |
| Asphalt Paving            | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Asphalt Paving            | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.00  |
| Building Demo Debris Haul | Fugitive Dust | 0.09        | 0.01  | 0.04      | 0.01  | 0.57              | 0.57  |
| Building Demo Debris Haul | Roads         | 0.03        | 0.01  | 0.03      | 0.01  | 0.07              | 0.06  |
| Building Demolition       | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Building Demolition       | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.07  |
| Dry Utility Installation  | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Dry Utility Installation  | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.07  |
| Fine Grading              | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.57              | 0.58  |
| Fine Grading              | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.11              | 0.10  |

|                                                  |               |      |      |      |      |      |      |
|--------------------------------------------------|---------------|------|------|------|------|------|------|
| Multi-Use Structure                              | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Multi-Use Structure                              | Roads         | 0.71 | 0.19 | 0.66 | 0.18 | 0.07 | 0.07 |
| Parking Structure                                | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Excavation/Shoring/Hauling                       | Roads         | 0.01 | 0.00 | 0.01 | 0.00 | 0.07 | 0.06 |
| Parking Structure                                | Fugitive Dust | 0.01 | 0.01 | 0.01 | 0.00 | 0.57 | 0.57 |
| Excavation/Shoring/Hauling                       | Roads         | 0.00 | 0.00 | 0.00 | 0.00 | 0.07 | 0.13 |
| Rough Grading                                    | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Rough Grading Soil Haul                          | Roads         | 0.01 | 0.00 | 0.01 | 0.00 | 0.07 | 0.06 |
| Rough Grading Soil Haul                          | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.57 | 0.57 |
| Site Preparation                                 | Roads         | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.33 |
| Site Preparation                                 | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Street Improvements - Balancing / Aggregate Base | Roads         | 0.00 | 0.00 | 0.00 | 0.00 | 0.09 | 0.08 |
| Street Improvements - Balancing / Aggregate Base | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Street Improvements - Concrete Flatwork          | Roads         | 0.00 | 0.00 | 0.00 | 0.00 | 0.08 | 0.08 |
| Street Improvements - Concrete Flatwork          | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Street Improvements - Curb & Gutter              | Roads         | 0.00 | 0.00 | 0.00 | 0.00 | 0.06 | 0.08 |
| Street Improvements - Curb & Gutter              | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Structural Concrete                              | Roads         | 0.05 | 0.01 | 0.04 | 0.01 | 0.08 | 0.07 |
| Structural Concrete                              | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Wet Utility Installation                         | Roads         | 0.01 | 0.00 | 0.01 | 0.00 | 0.08 | 0.07 |
| Wet Utility Installation                         | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

## Construction-Mitigated - Orange County, Annual

### Construction-Mitigated Orange County, Annual

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

### 1.2 Other Project Characteristics

|                                     |                            |                                     |       |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                      | <b>Wind Speed (m/s)</b>             | 2.2   | <b>Precipitation Freq (Days)</b>    | 30    |
| <b>Climate Zone</b>                 | 8                          |                                     |       | <b>Operational Year</b>             | 2024  |
| <b>Utility Company</b>              | Southern California Edison |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 5.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 2.00      |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |

|                         |                   |            |            |
|-------------------------|-------------------|------------|------------|
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstructionPhase    | NumDays           | 20.00      | 22.00      |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 7.00       |
| tblGrading              | MaterialExported  | 0.00       | 7,542.00   |
| tblLandUse              | LandUseSquareFeet | 278,340.00 | 278,337.00 |
| tblLandUse              | LandUseSquareFeet | 14,374.80  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 21,780.00  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse              | LotAcreage        | 6.39       | 1.06       |
| tblLandUse              | LotAcreage        | 0.05       | 0.00       |
| tblLandUse              | LotAcreage        | 9.21       | 3.74       |
| tblLandUse              | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment     | HorsePower        | 367.00     | 407.00     |

|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | HorsePower                 | 65.00  | 75.00    |
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 3.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 8.00     |

|                |                  |       |       |
|----------------|------------------|-------|-------|
| tblTripsAndVMT | WorkerTripNumber | 10.00 | 16.00 |
|----------------|------------------|-------|-------|

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.0783  | 1.1026 | 0.6314 | 2.0500e-003 | 0.1518        | 0.0316       | 0.1834     | 0.0267         | 0.0291        | 0.0558      | 0.0000   | 195.8120  | 195.8120  | 0.0384 | 0.0000 | 196.7730 |
| 2020    | 0.0161  | 0.3828 | 0.1272 | 9.0000e-004 | 0.0591        | 4.5900e-003  | 0.0637     | 0.0163         | 4.2500e-003   | 0.0206      | 0.0000   | 89.6614   | 89.6614   | 0.0119 | 0.0000 | 89.9576  |
| Maximum | 0.0783  | 1.1026 | 0.6314 | 2.0500e-003 | 0.1518        | 0.0316       | 0.1834     | 0.0267         | 0.0291        | 0.0558      | 0.0000   | 195.8120  | 195.8120  | 0.0384 | 0.0000 | 196.7730 |

#### Mitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.0366  | 0.8514 | 0.6315 | 2.0500e-003 | 0.0806        | 0.0196       | 0.1002     | 0.0157         | 0.0195        | 0.0353      | 0.0000   | 195.8119  | 195.8119  | 0.0384 | 0.0000 | 196.7729 |
| 2020    | 0.0110  | 0.3450 | 0.1416 | 9.0000e-004 | 0.0428        | 3.2500e-003  | 0.0460     | 0.0116         | 3.2100e-003   | 0.0148      | 0.0000   | 89.6614   | 89.6614   | 0.0119 | 0.0000 | 89.9576  |
| Maximum | 0.0366  | 0.8514 | 0.6315 | 2.0500e-003 | 0.0806        | 0.0196       | 0.1002     | 0.0157         | 0.0195        | 0.0353      | 0.0000   | 195.8119  | 195.8119  | 0.0384 | 0.0000 | 196.7729 |

|                   | ROG   | NOx   | CO    | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|-------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 49.56 | 19.46 | -1.92 | 0.00 | 41.50         | 36.88        | 40.82      | 36.57          | 31.89         | 34.53       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 5       | 10-1-2019  | 12-31-2019 | 1.1489                                       | 0.8665                                     |
| 6       | 1-1-2020   | 3-31-2020  | 0.4053                                       | 0.3772                                     |
|         |            | Highest    | 1.1489                                       | 0.8665                                     |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name                | Phase Type | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|---------------------------|------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition       | Demolition | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul | Demolition | 12/5/2019  | 1/3/2020   | 5             | 22       |                   |
| 3            | Asphalt Demolition        | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul  | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 5            | Rough Grading             | Grading    | 1/7/2020   | 1/9/2020   | 5             | 3        |                   |
| 6            | Rough Grading Soil Haul   | Grading    | 1/9/2020   | 1/17/2020  | 5             | 7        |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

## OffRoad Equipment

| Phase Name                | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition       | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition       | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition       | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition       | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition       | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |
| Building Demo Debris Haul | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demo Debris Haul | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Building Demo Debris Haul | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Asphalt Demolition        | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Asphalt Demolition        | Excavators                | 0      | 8.00        | 158         | 0.38        |
| Asphalt Demolition        | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Asphalt Demo Debris Haul  | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Asphalt Demo Debris Haul  | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Asphalt Demo Debris Haul  | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Rough Grading             | Excavators                | 0      | 8.00        | 158         | 0.38        |
| Rough Grading             | Graders                   | 1      | 8.00        | 238         | 0.41        |
| Rough Grading             | Rubber Tired Dozers       | 1      | 8.00        | 257         | 0.40        |
| Rough Grading             | Rubber Tired Dozers       | 1      | 8.00        | 562         | 0.40        |
| Rough Grading             | Scrapers                  | 1      | 8.00        | 407         | 0.48        |
| Rough Grading             | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Rough Grading Soil Haul   | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Rough Grading Soil Haul   | Graders                   | 0      | 8.00        | 187         | 0.41        |
| Rough Grading Soil Haul   | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Rough Grading Soil Haul   | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

## Trips and VMT

| Phase Name                | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition       | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition        | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul  | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading             | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul   | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0619        | 0.6745        | 0.4968        | 8.6000e-004        |               | 0.0287        | 0.0287        |                | 0.0264        | 0.0264        | 0.0000        | 77.5891        | 77.5891        | 0.0246        | 0.0000        | 78.2029        |
| <b>Total</b>  | <b>0.0619</b> | <b>0.6745</b> | <b>0.4968</b> | <b>8.6000e-004</b> | <b>0.0000</b> | <b>0.0287</b> | <b>0.0287</b> | <b>0.0000</b>  | <b>0.0264</b> | <b>0.0264</b> | <b>0.0000</b> | <b>77.5891</b> | <b>77.5891</b> | <b>0.0246</b> | <b>0.0000</b> | <b>78.2029</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.5000e-004        | 4.6300e-003        | 1.2600e-003   | 1.0000e-005        | 2.5000e-004        | 3.0000e-005        | 2.8000e-004        | 7.0000e-005        | 3.0000e-005        | 1.0000e-004        | 0.0000        | 0.9805        | 0.9805        | 9.0000e-005        | 0.0000        | 0.9826        |
| Worker       | 1.6700e-003        | 1.2200e-003        | 0.0135        | 4.0000e-005        | 4.3900e-003        | 3.0000e-005        | 4.4200e-003        | 1.1700e-003        | 3.0000e-005        | 1.1900e-003        | 0.0000        | 3.9265        | 3.9265        | 1.0000e-004        | 0.0000        | 3.9289        |
| <b>Total</b> | <b>1.8200e-003</b> | <b>5.8500e-003</b> | <b>0.0148</b> | <b>5.0000e-005</b> | <b>4.6400e-003</b> | <b>6.0000e-005</b> | <b>4.7000e-003</b> | <b>1.2400e-003</b> | <b>6.0000e-005</b> | <b>1.2900e-003</b> | <b>0.0000</b> | <b>4.9069</b> | <b>4.9069</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>4.9115</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0212        | 0.4113        | 0.4640        | 8.6000e-004        |               | 0.0160        | 0.0160        |                | 0.0160        | 0.0160        | 0.0000        | 77.5891        | 77.5891        | 0.0246        | 0.0000        | 78.2028        |
| <b>Total</b>  | <b>0.0212</b> | <b>0.4113</b> | <b>0.4640</b> | <b>8.6000e-004</b> | <b>0.0000</b> | <b>0.0160</b> | <b>0.0160</b> | <b>0.0000</b>  | <b>0.0160</b> | <b>0.0160</b> | <b>0.0000</b> | <b>77.5891</b> | <b>77.5891</b> | <b>0.0246</b> | <b>0.0000</b> | <b>78.2028</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.5000e-004        | 4.6300e-003        | 1.2600e-003   | 1.0000e-005        | 2.4000e-004        | 3.0000e-005        | 2.7000e-004        | 7.0000e-005        | 3.0000e-005        | 1.0000e-004        | 0.0000        | 0.9805        | 0.9805        | 9.0000e-005        | 0.0000        | 0.9826        |
| Worker       | 1.6700e-003        | 1.2200e-003        | 0.0135        | 4.0000e-005        | 4.0500e-003        | 3.0000e-005        | 4.0800e-003        | 1.0800e-003        | 3.0000e-005        | 1.1100e-003        | 0.0000        | 3.9265        | 3.9265        | 1.0000e-004        | 0.0000        | 3.9289        |
| <b>Total</b> | <b>1.8200e-003</b> | <b>5.8500e-003</b> | <b>0.0148</b> | <b>5.0000e-005</b> | <b>4.2900e-003</b> | <b>6.0000e-005</b> | <b>4.3500e-003</b> | <b>1.1500e-003</b> | <b>6.0000e-005</b> | <b>1.2100e-003</b> | <b>0.0000</b> | <b>4.9069</b> | <b>4.9069</b> | <b>1.9000e-004</b> | <b>0.0000</b> | <b>4.9115</b> |

### **3.3 Building Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                |                    |               | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0776        | 0.0000             | 0.0776        | 0.0118         | 0.0000             | 0.0118        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.1000e-003        | 0.0340        | 0.0213        | 9.0000e-005        |               | 1.1000e-003        | 1.1000e-003   |                | 1.0200e-003        | 1.0200e-003   | 0.0000        | 8.3389        | 8.3389        | 2.6400e-003        | 0.0000        | 8.4048        |
| <b>Total</b>  | <b>3.1000e-003</b> | <b>0.0340</b> | <b>0.0213</b> | <b>9.0000e-005</b> | <b>0.0776</b> | <b>1.1000e-003</b> | <b>0.0787</b> | <b>0.0118</b>  | <b>1.0200e-003</b> | <b>0.0128</b> | <b>0.0000</b> | <b>8.3389</b> | <b>8.3389</b> | <b>2.6400e-003</b> | <b>0.0000</b> | <b>8.4048</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0105        | 0.3718        | 0.0914        | 1.0000e-003        | 0.0260        | 1.5200e-003        | 0.0275        | 7.0400e-003        | 1.4500e-003        | 8.4900e-003        | 0.0000        | 101.3134        | 101.3134        | 0.0104        | 0.0000        | 101.5732        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 1.2000e-004   | 9.0000e-005   | 9.6000e-004   | 0.0000             | 3.1000e-004   | 0.0000             | 3.2000e-004   | 8.0000e-005        | 0.0000             | 9.0000e-005        | 0.0000        | 0.2798          | 0.2798          | 1.0000e-005   | 0.0000        | 0.2799          |
| <b>Total</b> | <b>0.0107</b> | <b>0.3719</b> | <b>0.0924</b> | <b>1.0000e-003</b> | <b>0.0263</b> | <b>1.5200e-003</b> | <b>0.0278</b> | <b>7.1200e-003</b> | <b>1.4500e-003</b> | <b>8.5800e-003</b> | <b>0.0000</b> | <b>101.5932</b> | <b>101.5932</b> | <b>0.0104</b> | <b>0.0000</b> | <b>101.8531</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0332        | 0.0000             | 0.0332        | 5.0200e-003        | 0.0000             | 5.0200e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.2900e-003        | 0.0443        | 0.0497        | 9.0000e-005        |               | 1.6800e-003        | 1.6800e-003   |                    | 1.6800e-003        | 1.6800e-003        | 0.0000        | 8.3389        | 8.3389        | 2.6400e-003        | 0.0000        | 8.4048        |
| <b>Total</b>  | <b>2.2900e-003</b> | <b>0.0443</b> | <b>0.0497</b> | <b>9.0000e-005</b> | <b>0.0332</b> | <b>1.6800e-003</b> | <b>0.0349</b> | <b>5.0200e-003</b> | <b>1.6800e-003</b> | <b>6.7000e-003</b> | <b>0.0000</b> | <b>8.3389</b> | <b>8.3389</b> | <b>2.6400e-003</b> | <b>0.0000</b> | <b>8.4048</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category     | tons/yr       |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                 |                 |               |               |                 |
| Hauling      | 0.0105        | 0.3718        | 0.0914        | 1.0000e-003        | 0.0241        | 1.5200e-003        | 0.0256        | 6.5900e-003        | 1.4500e-003        | 8.0400e-003        | 0.0000        | 101.3134        | 101.3134        | 0.0104        | 0.0000        | 101.5732        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Worker       | 1.2000e-004   | 9.0000e-005   | 9.6000e-004   | 0.0000             | 2.9000e-004   | 0.0000             | 2.9000e-004   | 8.0000e-005        | 0.0000             | 8.0000e-005        | 0.0000        | 0.2798          | 0.2798          | 1.0000e-005   | 0.0000        | 0.2799          |
| <b>Total</b> | <b>0.0107</b> | <b>0.3719</b> | <b>0.0924</b> | <b>1.0000e-003</b> | <b>0.0244</b> | <b>1.5200e-003</b> | <b>0.0259</b> | <b>6.6700e-003</b> | <b>1.4500e-003</b> | <b>8.1200e-003</b> | <b>0.0000</b> | <b>101.5932</b> | <b>101.5932</b> | <b>0.0104</b> | <b>0.0000</b> | <b>101.8531</b> |

### **3.3 Building Demo Debris Haul - 2020**

#### Unmitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0123        | 0.0000             | 0.0123        | 1.8600e-003        | 0.0000             | 1.8600e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.6000e-004        | 4.7400e-003        | 3.3200e-003        | 1.0000e-005        |               | 1.6000e-004        | 1.6000e-004   |                    | 1.4000e-004        | 1.4000e-004        | 0.0000        | 1.2867        | 1.2867        | 4.2000e-004        | 0.0000        | 1.2971        |
| <b>Total</b>  | <b>4.6000e-004</b> | <b>4.7400e-003</b> | <b>3.3200e-003</b> | <b>1.0000e-005</b> | <b>0.0123</b> | <b>1.6000e-004</b> | <b>0.0124</b> | <b>1.8600e-003</b> | <b>1.4000e-004</b> | <b>2.0000e-003</b> | <b>0.0000</b> | <b>1.2867</b> | <b>1.2867</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2971</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 1.5200e-003        | 0.0542        | 0.0141        | 1.6000e-004        | 0.0212        | 1.9000e-004        | 0.0214        | 5.3000e-003        | 1.8000e-004        | 5.4800e-003        | 0.0000        | 15.8096        | 15.8096        | 1.6200e-003        | 0.0000        | 15.8501        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.4000e-004   | 0.0000             | 5.0000e-005   | 0.0000             | 5.0000e-005   | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0428         | 0.0428         | 0.0000             | 0.0000        | 0.0428         |
| <b>Total</b> | <b>1.5400e-003</b> | <b>0.0542</b> | <b>0.0143</b> | <b>1.6000e-004</b> | <b>0.0212</b> | <b>1.9000e-004</b> | <b>0.0214</b> | <b>5.3100e-003</b> | <b>1.8000e-004</b> | <b>5.4900e-003</b> | <b>0.0000</b> | <b>15.8524</b> | <b>15.8524</b> | <b>1.6200e-003</b> | <b>0.0000</b> | <b>15.8929</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 5.2400e-003        | 0.0000             | 5.2400e-003        | 7.9000e-004        | 0.0000             | 7.9000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.6000e-004        | 7.0000e-003        | 7.8400e-003        | 1.0000e-005        |                    | 2.7000e-004        | 2.7000e-004        |                    | 2.7000e-004        | 2.7000e-004        | 0.0000        | 1.2867        | 1.2867        | 4.2000e-004        | 0.0000        | 1.2971        |
| <b>Total</b>  | <b>3.6000e-004</b> | <b>7.0000e-003</b> | <b>7.8400e-003</b> | <b>1.0000e-005</b> | <b>5.2400e-003</b> | <b>2.7000e-004</b> | <b>5.5100e-003</b> | <b>7.9000e-004</b> | <b>2.7000e-004</b> | <b>1.0600e-003</b> | <b>0.0000</b> | <b>1.2867</b> | <b>1.2867</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.2971</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 1.5200e-003        | 0.0542        | 0.0141        | 1.6000e-004        | 0.0194        | 1.9000e-004        | 0.0195        | 4.8600e-003        | 1.8000e-004        | 5.0400e-003        | 0.0000        | 15.8096        | 15.8096        | 1.6200e-003        | 0.0000        | 15.8501        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.4000e-004   | 0.0000             | 5.0000e-005   | 0.0000             | 5.0000e-005   | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0428         | 0.0428         | 0.0000             | 0.0000        | 0.0428         |
| <b>Total</b> | <b>1.5400e-003</b> | <b>0.0542</b> | <b>0.0143</b> | <b>1.6000e-004</b> | <b>0.0194</b> | <b>1.9000e-004</b> | <b>0.0196</b> | <b>4.8700e-003</b> | <b>1.8000e-004</b> | <b>5.0500e-003</b> | <b>0.0000</b> | <b>15.8524</b> | <b>15.8524</b> | <b>1.6200e-003</b> | <b>0.0000</b> | <b>15.8929</b> |

### **3.4 Asphalt Demolition - 2019**

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 5.0000e-005        | 4.0000e-005        | 4.1000e-004        | 0.0000        | 1.3000e-004        | 0.0000        | 1.3000e-004        | 3.0000e-005        | 0.0000        | 4.0000e-005        | 0.0000        | 0.1178        | 0.1178        | 0.0000        | 0.0000        | 0.1179        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>4.0000e-005</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>4.0000e-005</b> | <b>0.0000</b> | <b>0.1178</b> | <b>0.1178</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1179</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 5.0000e-005        | 4.0000e-005        | 4.1000e-004        | 0.0000        | 1.2000e-004        | 0.0000        | 1.2000e-004        | 3.0000e-005        | 0.0000        | 3.0000e-005        | 0.0000        | 0.1178        | 0.1178        | 0.0000        | 0.0000        | 0.1179        |
| <b>Total</b> | <b>5.0000e-005</b> | <b>4.0000e-005</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.2000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>0.1178</b> | <b>0.1178</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1179</b> |

### **3.5 Asphalt Demo Debris Haul - 2019**

#### Unmitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0428        | 0.0000             | 0.0428        | 6.4800e-003        | 0.0000             | 6.4800e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.9000e-004        | 5.3700e-003        | 3.3600e-003        | 1.0000e-005        |               | 1.7000e-004        | 1.7000e-004   |                    | 1.6000e-004        | 1.6000e-004        | 0.0000        | 1.3167        | 1.3167        | 4.2000e-004        | 0.0000        | 1.3271        |
| <b>Total</b>  | <b>4.9000e-004</b> | <b>5.3700e-003</b> | <b>3.3600e-003</b> | <b>1.0000e-005</b> | <b>0.0428</b> | <b>1.7000e-004</b> | <b>0.0430</b> | <b>6.4800e-003</b> | <b>1.6000e-004</b> | <b>6.6400e-003</b> | <b>0.0000</b> | <b>1.3167</b> | <b>1.3167</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.3271</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.6000e-004        | 0.0110        | 2.2500e-003        | 2.0000e-005        | 3.1000e-004        | 3.0000e-005        | 3.3000e-004        | 8.0000e-005        | 2.0000e-005        | 1.1000e-004        | 0.0000        | 1.9053        | 1.9053        | 2.5000e-004        | 0.0000        | 1.9115        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.5000e-004        | 0.0000             | 5.0000e-005        | 0.0000             | 5.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0442        | 0.0442        | 0.0000             | 0.0000        | 0.0442        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>0.0110</b> | <b>2.4000e-003</b> | <b>2.0000e-005</b> | <b>3.6000e-004</b> | <b>3.0000e-005</b> | <b>3.8000e-004</b> | <b>9.0000e-005</b> | <b>2.0000e-005</b> | <b>1.2000e-004</b> | <b>0.0000</b> | <b>1.9495</b> | <b>1.9495</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>1.9557</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx                | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |                    |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |                    |                    | 0.0183        | 0.0000             | 0.0183        | 2.7700e-003        | 0.0000             | 2.7700e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.6000e-004        | 7.0000e-003        | 7.8400e-003        | 1.0000e-005        |               | 2.7000e-004        | 2.7000e-004   |                    | 2.7000e-004        | 2.7000e-004        | 0.0000        | 1.3167        | 1.3167        | 4.2000e-004        | 0.0000        | 1.3271        |
| <b>Total</b>  | <b>3.6000e-004</b> | <b>7.0000e-003</b> | <b>7.8400e-003</b> | <b>1.0000e-005</b> | <b>0.0183</b> | <b>2.7000e-004</b> | <b>0.0186</b> | <b>2.7700e-003</b> | <b>2.7000e-004</b> | <b>3.0400e-003</b> | <b>0.0000</b> | <b>1.3167</b> | <b>1.3167</b> | <b>4.2000e-004</b> | <b>0.0000</b> | <b>1.3271</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 2.6000e-004        | 0.0110        | 2.2500e-003        | 2.0000e-005        | 2.9000e-004        | 3.0000e-005        | 3.1000e-004        | 8.0000e-005        | 2.0000e-005        | 1.0000e-004        | 0.0000        | 1.9053        | 1.9053        | 2.5000e-004        | 0.0000        | 1.9115        |
| Vendor       | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 2.0000e-005        | 1.0000e-005   | 1.5000e-004        | 0.0000             | 5.0000e-005        | 0.0000             | 5.0000e-005        | 1.0000e-005        | 0.0000             | 1.0000e-005        | 0.0000        | 0.0442        | 0.0442        | 0.0000             | 0.0000        | 0.0442        |
| <b>Total</b> | <b>2.8000e-004</b> | <b>0.0110</b> | <b>2.4000e-003</b> | <b>2.0000e-005</b> | <b>3.4000e-004</b> | <b>3.0000e-005</b> | <b>3.6000e-004</b> | <b>9.0000e-005</b> | <b>2.0000e-005</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.9495</b> | <b>1.9495</b> | <b>2.5000e-004</b> | <b>0.0000</b> | <b>1.9557</b> |

### **3.6 Rough Grading - 2020**

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0114        | 0.0000             | 0.0114        | 5.2200e-003        | 0.0000             | 5.2200e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 6.7300e-003        | 0.0834        | 0.0433        | 8.0000e-005        |               | 3.1500e-003        | 3.1500e-003   |                    | 2.9000e-003        | 2.9000e-003        | 0.0000        | 7.0629        | 7.0629        | 2.2800e-003        | 0.0000        | 7.1200        |
| <b>Total</b>  | <b>6.7300e-003</b> | <b>0.0834</b> | <b>0.0433</b> | <b>8.0000e-005</b> | <b>0.0114</b> | <b>3.1500e-003</b> | <b>0.0146</b> | <b>5.2200e-003</b> | <b>2.9000e-003</b> | <b>8.1200e-003</b> | <b>0.0000</b> | <b>7.0629</b> | <b>7.0629</b> | <b>2.2800e-003</b> | <b>0.0000</b> | <b>7.1200</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.0000e-005        | 3.2000e-004        | 9.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0730        | 0.0730        | 1.0000e-005        | 0.0000        | 0.0732        |
| Worker       | 9.0000e-005        | 7.0000e-005        | 7.4000e-004        | 0.0000        | 2.6000e-004        | 0.0000        | 2.7000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2280        | 0.2280        | 1.0000e-005        | 0.0000        | 0.2282        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>3.9000e-004</b> | <b>8.3000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.9000e-004</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>0.3011</b> | <b>0.3011</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.3014</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 4.8800e-003        | 0.0000             | 4.8800e-003        | 2.2300e-003        | 0.0000             | 2.2300e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.9700e-003        | 0.0381        | 0.0427        | 8.0000e-005        |                    | 1.4400e-003        | 1.4400e-003        |                    | 1.4400e-003        | 1.4400e-003        | 0.0000        | 7.0629        | 7.0629        | 2.2800e-003        | 0.0000        | 7.1200        |
| <b>Total</b>  | <b>1.9700e-003</b> | <b>0.0381</b> | <b>0.0427</b> | <b>8.0000e-005</b> | <b>4.8800e-003</b> | <b>1.4400e-003</b> | <b>6.3200e-003</b> | <b>2.2300e-003</b> | <b>1.4400e-003</b> | <b>3.6700e-003</b> | <b>0.0000</b> | <b>7.0629</b> | <b>7.0629</b> | <b>2.2800e-003</b> | <b>0.0000</b> | <b>7.1200</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 1.0000e-005        | 3.2000e-004        | 9.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0730        | 0.0730        | 1.0000e-005        | 0.0000        | 0.0732        |
| Worker       | 9.0000e-005        | 7.0000e-005        | 7.4000e-004        | 0.0000        | 2.4000e-004        | 0.0000        | 2.4000e-004        | 6.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2280        | 0.2280        | 1.0000e-005        | 0.0000        | 0.2282        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>3.9000e-004</b> | <b>8.3000e-004</b> | <b>0.0000</b> | <b>2.6000e-004</b> | <b>0.0000</b> | <b>2.6000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>0.3011</b> | <b>0.3011</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.3014</b> |

### **3.7 Rough Grading Soil Haul - 2020**

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |                    |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 1.0800e-003        | 0.0111        | 7.7500e-003        | 3.0000e-005        |               | 3.6000e-004        | 3.6000e-004        |                | 3.4000e-004        | 3.4000e-004        | 0.0000        | 3.0024        | 3.0024        | 9.7000e-004        | 0.0000        | 3.0266        |
| <b>Total</b>  | <b>1.0800e-003</b> | <b>0.0111</b> | <b>7.7500e-003</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.6000e-004</b> | <b>3.6000e-004</b> | <b>0.0000</b>  | <b>3.4000e-004</b> | <b>3.4000e-004</b> | <b>0.0000</b> | <b>3.0024</b> | <b>3.0024</b> | <b>9.7000e-004</b> | <b>0.0000</b> | <b>3.0266</b> |

### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 6.1600e-003        | 0.2290        | 0.0574        | 6.1000e-004        | 0.0138        | 7.2000e-004        | 0.0146        | 3.7900e-003        | 6.9000e-004        | 4.4900e-003        | 0.0000        | 62.0562        | 62.0562        | 6.5400e-003        | 0.0000        | 62.2197        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 4.0000e-005        | 3.0000e-005   | 3.3000e-004   | 0.0000             | 1.2000e-004   | 0.0000             | 1.2000e-004   | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0998         | 0.0998         | 0.0000             | 0.0000        | 0.0998         |
| <b>Total</b> | <b>6.2000e-003</b> | <b>0.2290</b> | <b>0.0577</b> | <b>6.1000e-004</b> | <b>0.0140</b> | <b>7.2000e-004</b> | <b>0.0147</b> | <b>3.8200e-003</b> | <b>6.9000e-004</b> | <b>4.5200e-003</b> | <b>0.0000</b> | <b>62.1560</b> | <b>62.1560</b> | <b>6.5400e-003</b> | <b>0.0000</b> | <b>62.3196</b> |

### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 0.0000        | 0.0000             | 0.0000             | 0.0000         | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 8.4000e-004        | 0.0163        | 0.0183        | 3.0000e-005        |               | 6.2000e-004        | 6.2000e-004        |                | 6.2000e-004        | 6.2000e-004        | 0.0000        | 3.0024        | 3.0024        | 9.7000e-004        | 0.0000        | 3.0266        |
| <b>Total</b>  | <b>8.4000e-004</b> | <b>0.0163</b> | <b>0.0183</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>6.2000e-004</b> | <b>6.2000e-004</b> | <b>0.0000</b>  | <b>6.2000e-004</b> | <b>6.2000e-004</b> | <b>0.0000</b> | <b>3.0024</b> | <b>3.0024</b> | <b>9.7000e-004</b> | <b>0.0000</b> | <b>3.0266</b> |

# Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 6.1600e-003        | 0.2290        | 0.0574        | 6.1000e-004        | 0.0129        | 7.2000e-004        | 0.0136        | 3.5600e-003        | 6.9000e-004        | 4.2500e-003        | 0.0000        | 62.0562        | 62.0562        | 6.5400e-003        | 0.0000        | 62.2197        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 4.0000e-005        | 3.0000e-005   | 3.3000e-004   | 0.0000             | 1.1000e-004   | 0.0000             | 1.1000e-004   | 3.0000e-005        | 0.0000             | 3.0000e-005        | 0.0000        | 0.0998         | 0.0998         | 0.0000             | 0.0000        | 0.0998         |
| <b>Total</b> | <b>6.2000e-003</b> | <b>0.2290</b> | <b>0.0577</b> | <b>6.1000e-004</b> | <b>0.0130</b> | <b>7.2000e-004</b> | <b>0.0137</b> | <b>3.5900e-003</b> | <b>6.9000e-004</b> | <b>4.2800e-003</b> | <b>0.0000</b> | <b>62.1560</b> | <b>62.1560</b> | <b>6.5400e-003</b> | <b>0.0000</b> | <b>62.3196</b> |

## Construction-Mitigated - Orange County, Summer

### Construction-Mitigated Orange County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

### 1.2 Other Project Characteristics

|                                     |                            |                                     |       |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                      | <b>Wind Speed (m/s)</b>             | 2.2   | <b>Precipitation Freq (Days)</b>    | 30    |
| <b>Climate Zone</b>                 | 8                          |                                     |       | <b>Operational Year</b>             | 2024  |
| <b>Utility Company</b>              | Southern California Edison |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 5.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 2.00      |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |

|                         |                   |            |            |
|-------------------------|-------------------|------------|------------|
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstructionPhase    | NumDays           | 20.00      | 22.00      |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 7.00       |
| tblGrading              | MaterialExported  | 0.00       | 7,542.00   |
| tblLandUse              | LandUseSquareFeet | 278,340.00 | 278,337.00 |
| tblLandUse              | LandUseSquareFeet | 14,374.80  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 21,780.00  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse              | LotAcreage        | 6.39       | 1.06       |
| tblLandUse              | LotAcreage        | 0.05       | 0.00       |
| tblLandUse              | LotAcreage        | 9.21       | 3.74       |
| tblLandUse              | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment     | HorsePower        | 367.00     | 407.00     |
| tblOffRoadEquipment     | HorsePower        | 65.00      | 75.00      |

|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 3.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 8.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 10.00  | 16.00    |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 8.3518 | 120.1690 | 67.0542 | 0.2321 | 40.3177       | 3.2844       | 43.6021    | 6.5335         | 3.0282        | 9.5618      | 0.0000   | 24,439.3774 | 24,439.3774 | 4.7175 | 0.0000 | 24,557.3151 |
| 2020    | 6.6154 | 122.4008 | 47.8031 | 0.2424 | 22.6094       | 2.4123       | 22.8384    | 4.8519         | 2.2269        | 6.8679      | 0.0000   | 26,066.3173 | 26,066.3173 | 4.0325 | 0.0000 | 26,167.1281 |
| Maximum | 8.3518 | 122.4008 | 67.0542 | 0.2424 | 40.3177       | 3.2844       | 43.6021    | 6.5335         | 3.0282        | 9.5618      | 0.0000   | 26,066.3173 | 26,066.3173 | 4.7175 | 0.0000 | 26,167.1281 |

#### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 4.1055 | 96.0214 | 69.7583 | 0.2321 | 19.0461       | 2.1393       | 21.1854    | 3.2885         | 2.1313        | 5.4197      | 0.0000   | 24,439.3774 | 24,439.3774 | 4.7175 | 0.0000 | 24,557.3151 |
| 2020    | 3.3751 | 93.7102 | 50.3796 | 0.2424 | 16.6863       | 1.3478       | 16.9881    | 3.8380         | 1.3388        | 4.1343      | 0.0000   | 26,066.3173 | 26,066.3173 | 4.0325 | 0.0000 | 26,167.1281 |
| Maximum | 4.1055 | 96.0214 | 69.7583 | 0.2424 | 19.0461       | 2.1393       | 21.1854    | 3.8380         | 2.1313        | 5.4197      | 0.0000   | 26,066.3173 | 26,066.3173 | 4.7175 | 0.0000 | 26,167.1281 |

|                   | ROG   | NOx   | CO    | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|-------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 50.02 | 21.78 | -4.60 | 0.00 | 43.22         | 38.79        | 42.54      | 37.41          | 33.97         | 41.85       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name                | Phase Type | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|---------------------------|------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition       | Demolition | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul | Demolition | 12/5/2019  | 1/3/2020   | 5             | 22       |                   |
| 3            | Asphalt Demolition        | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul  | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 5            | Rough Grading             | Grading    | 1/7/2020   | 1/9/2020   | 5             | 3        |                   |
| 6            | Rough Grading Soil Haul   | Grading    | 1/9/2020   | 1/17/2020  | 5             | 7        |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 1.44

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0

#### OffRoad Equipment

| Phase Name                | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition       | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition       | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition       | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition       | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition       | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |
| Building Demo Debris Haul | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demo Debris Haul | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Building Demo Debris Haul | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |

|                          |                           |   |      |     |      |
|--------------------------|---------------------------|---|------|-----|------|
| Asphalt Demolition       | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demolition       | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Asphalt Demolition       | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demo Debris Haul | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demo Debris Haul | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Asphalt Demo Debris Haul | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading            | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Rough Grading            | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Rough Grading            | Rubber Tired Dozers       | 1 | 8.00 | 257 | 0.40 |
| Rough Grading            | Rubber Tired Dozers       | 1 | 8.00 | 562 | 0.40 |
| Rough Grading            | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Rough Grading            | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Rough Grading Soil Haul  | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Rough Grading Soil Haul  | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Rough Grading Soil Haul  | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading Soil Haul  | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |

### **Trips and VMT**

| Phase Name                | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition       | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition        | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul  | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading             | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul   | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |               | 2.8698        | 2.8698        |                | 2.6402        | 2.6402        |          | 8,552.7391        | 8,552.7391        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b> | <b>2.8698</b> | <b>2.8698</b> | <b>0.0000</b>  | <b>2.6402</b> | <b>2.6402</b> |          | <b>8,552.7391</b> | <b>8,552.7391</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0150        | 0.4539        | 0.1200        | 1.0000e-003        | 0.0256        | 3.0700e-003        | 0.0286        | 7.3500e-003    | 2.9300e-003        | 0.0103        |          | 109.1876        | 109.1876        | 9.2200e-003   |     | 109.4180        |
| Worker       | 0.1649        | 0.1081        | 1.4270        | 4.5200e-003        | 0.4471        | 2.9900e-003        | 0.4501        | 0.1186         | 2.7500e-003        | 0.1213        |          | 450.4561        | 450.4561        | 0.0111        |     | 450.7330        |
| <b>Total</b> | <b>0.1799</b> | <b>0.5620</b> | <b>1.5470</b> | <b>5.5200e-003</b> | <b>0.4727</b> | <b>6.0600e-003</b> | <b>0.4787</b> | <b>0.1259</b>  | <b>5.6800e-003</b> | <b>0.1316</b> |          | <b>559.6437</b> | <b>559.6437</b> | <b>0.0203</b> |     | <b>560.1510</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1168        | 41.1295        | 46.4014        | 0.0864        |               | 1.6032        | 1.6032        |                | 1.6032        | 1.6032        | 0.0000        | 8,552.7390        | 8,552.7390        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>2.1168</b> | <b>41.1295</b> | <b>46.4014</b> | <b>0.0864</b> | <b>0.0000</b> | <b>1.6032</b> | <b>1.6032</b> | <b>0.0000</b>  | <b>1.6032</b> | <b>1.6032</b> | <b>0.0000</b> | <b>8,552.7390</b> | <b>8,552.7390</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0150        | 0.4539        | 0.1200        | 1.0000e-003        | 0.0239        | 3.0700e-003        | 0.0270        | 6.9500e-003    | 2.9300e-003        | 9.8900e-003   |          | 109.1876        | 109.1876        | 9.2200e-003   |     | 109.4180        |
| Worker       | 0.1649        | 0.1081        | 1.4270        | 4.5200e-003        | 0.4121        | 2.9900e-003        | 0.4151        | 0.1100         | 2.7500e-003        | 0.1127        |          | 450.4561        | 450.4561        | 0.0111        |     | 450.7330        |
| <b>Total</b> | <b>0.1799</b> | <b>0.5620</b> | <b>1.5470</b> | <b>5.5200e-003</b> | <b>0.4360</b> | <b>6.0600e-003</b> | <b>0.4421</b> | <b>0.1169</b>  | <b>5.6800e-003</b> | <b>0.1226</b> |          | <b>559.6437</b> | <b>559.6437</b> | <b>0.0203</b> |     | <b>560.1510</b> |

### 3.3 Building Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 8.1705        | 0.0000        | 8.1705        | 1.2371         | 0.0000        | 1.2371        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |               | 0.1162        | 0.1162        |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>8.1705</b> | <b>0.1162</b> | <b>8.2867</b> | <b>1.2371</b>  | <b>0.1069</b> | <b>1.3440</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.1001        | 37.6820        | 9.4613        | 0.1062        | 2.7765        | 0.1587        | 2.9352        | 0.7516         | 0.1518        | 0.9034        |          | 11,806.6526        | 11,806.6526        | 1.1962        |     | 11,836.5572        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0124        | 8.1100e-003    | 0.1070        | 3.4000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 33.7842            | 33.7842            | 8.3000e-004   |     | 33.8050            |
| <b>Total</b> | <b>1.1125</b> | <b>37.6901</b> | <b>9.5683</b> | <b>0.1065</b> | <b>2.8100</b> | <b>0.1589</b> | <b>2.9690</b> | <b>0.7605</b>  | <b>0.1520</b> | <b>0.9125</b> |          | <b>11,840.4368</b> | <b>11,840.4368</b> | <b>1.1970</b> |     | <b>11,870.3622</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 3.4929        | 0.0000        | 3.4929        | 0.5289         | 0.0000        | 0.5289        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7800e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7800e-003</b> | <b>3.4929</b> | <b>0.1769</b> | <b>3.6698</b> | <b>0.5289</b>  | <b>0.1769</b> | <b>0.7058</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.1001        | 37.6820        | 9.4613        | 0.1062        | 2.5803        | 0.1587        | 2.7390        | 0.7034         | 0.1518        | 0.8552        |          | 11,806.6526        | 11,806.6526        | 1.1962        |     | 11,836.5572        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0124        | 8.1100e-003    | 0.1070        | 3.4000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 33.7842            | 33.7842            | 8.3000e-004   |     | 33.8050            |
| <b>Total</b> | <b>1.1125</b> | <b>37.6901</b> | <b>9.5683</b> | <b>0.1065</b> | <b>2.6112</b> | <b>0.1589</b> | <b>2.7701</b> | <b>0.7117</b>  | <b>0.1520</b> | <b>0.8637</b> |          | <b>11,840.4368</b> | <b>11,840.4368</b> | <b>1.1970</b> |     | <b>11,870.3622</b> |

### 3.3 Building Demo Debris Haul - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 8.1705        | 0.0000        | 8.1705        | 1.2371         | 0.0000        | 1.2371        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>8.1705</b> | <b>0.1041</b> | <b>8.2747</b> | <b>1.2371</b>  | <b>0.0958</b> | <b>1.3329</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.0032        | 34.7974        | 9.2904        | 0.1047        | 14.4053        | 0.1246        | 14.5299        | 3.6059         | 0.1192        | 3.7251        |          | 11,669.4427        | 11,669.4427        | 1.1819        |     | 11,698.9899        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003    | 0.0982        | 3.3000e-004   | 0.0335         | 2.2000e-004   | 0.0338         | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>1.0148</b> | <b>34.8046</b> | <b>9.3886</b> | <b>0.1050</b> | <b>14.4389</b> | <b>0.1248</b> | <b>14.5637</b> | <b>3.6148</b>  | <b>0.1194</b> | <b>3.7342</b> |          | <b>11,702.1440</b> | <b>11,702.1440</b> | <b>1.1826</b> |     | <b>11,731.7098</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 3.4929        | 0.0000        | 3.4929        | 0.5289         | 0.0000        | 0.5289        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7700e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7700e-003</b> | <b>3.4929</b> | <b>0.1769</b> | <b>3.6698</b> | <b>0.5289</b>  | <b>0.1769</b> | <b>0.7058</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.0032        | 34.7974        | 9.2904        | 0.1047        | 13.1625        | 0.1246        | 13.2871        | 3.3009         | 0.1192        | 3.4201        |          | 11,669.4427        | 11,669.4427        | 1.1819        |     | 11,698.9899        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003    | 0.0982        | 3.3000e-004   | 0.0309         | 2.2000e-004   | 0.0311         | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>1.0148</b> | <b>34.8046</b> | <b>9.3886</b> | <b>0.1050</b> | <b>13.1934</b> | <b>0.1248</b> | <b>13.3182</b> | <b>3.3091</b>  | <b>0.1194</b> | <b>3.4285</b> |          | <b>11,702.1440</b> | <b>11,702.1440</b> | <b>1.1826</b> |     | <b>11,731.7098</b> |

### 3.4 Asphalt Demolition - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0330        | 0.0216        | 0.2854        | 9.0000e-004        | 0.0894        | 6.0000e-004        | 0.0900        | 0.0237         | 5.5000e-004        | 0.0243        |          | 90.0912        | 90.0912        | 2.2100e-003        |     | 90.1466        |
| <b>Total</b> | <b>0.0330</b> | <b>0.0216</b> | <b>0.2854</b> | <b>9.0000e-004</b> | <b>0.0894</b> | <b>6.0000e-004</b> | <b>0.0900</b> | <b>0.0237</b>  | <b>5.5000e-004</b> | <b>0.0243</b> |          | <b>90.0912</b> | <b>90.0912</b> | <b>2.2100e-003</b> |     | <b>90.1466</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0330        | 0.0216        | 0.2854        | 9.0000e-004        | 0.0824        | 6.0000e-004        | 0.0830        | 0.0220         | 5.5000e-004        | 0.0226        |          | 90.0912        | 90.0912        | 2.2100e-003        |     | 90.1466        |
| <b>Total</b> | <b>0.0330</b> | <b>0.0216</b> | <b>0.2854</b> | <b>9.0000e-004</b> | <b>0.0824</b> | <b>6.0000e-004</b> | <b>0.0830</b> | <b>0.0220</b>  | <b>5.5000e-004</b> | <b>0.0226</b> |          | <b>90.0912</b> | <b>90.0912</b> | <b>2.2100e-003</b> |     | <b>90.1466</b> |

### 3.5 Asphalt Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 28.5320        | 0.0000        | 28.5320        | 4.3200         | 0.0000        | 4.3200        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>28.5320</b> | <b>0.1162</b> | <b>28.6482</b> | <b>4.3200</b>  | <b>0.1069</b> | <b>4.4269</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1685        | 7.2809        | 1.3940        | 0.0129        | 0.2095        | 0.0165        | 0.2260        | 0.0574         | 0.0158        | 0.0732        |          | 1,427.5207        | 1,427.5207        | 0.1789        |     | 1,431.9931        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0124        | 8.1100e-003   | 0.1070        | 3.4000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 33.7842           | 33.7842           | 8.3000e-004   |     | 33.8050           |
| <b>Total</b> | <b>0.1809</b> | <b>7.2890</b> | <b>1.5011</b> | <b>0.0132</b> | <b>0.2430</b> | <b>0.0167</b> | <b>0.2597</b> | <b>0.0663</b>  | <b>0.0160</b> | <b>0.0823</b> |          | <b>1,461.3049</b> | <b>1,461.3049</b> | <b>0.1797</b> |     | <b>1,465.7981</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 12.1974        | 0.0000        | 12.1974        | 1.8468         | 0.0000        | 1.8468        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7800e-003        |                | 0.1769        | 0.1769         |                | 0.1769        | 0.1769        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7800e-003</b> | <b>12.1974</b> | <b>0.1769</b> | <b>12.3744</b> | <b>1.8468</b>  | <b>0.1769</b> | <b>2.0237</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1685        | 7.2809        | 1.3940        | 0.0129        | 0.1953        | 0.0165        | 0.2117        | 0.0539         | 0.0158        | 0.0697        |          | 1,427.5207        | 1,427.5207        | 0.1789        |     | 1,431.9931        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0124        | 8.1100e-003   | 0.1070        | 3.4000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 33.7842           | 33.7842           | 8.3000e-004   |     | 33.8050           |
| <b>Total</b> | <b>0.1809</b> | <b>7.2890</b> | <b>1.5011</b> | <b>0.0132</b> | <b>0.2262</b> | <b>0.0167</b> | <b>0.2428</b> | <b>0.0622</b>  | <b>0.0160</b> | <b>0.0781</b> |          | <b>1,461.3049</b> | <b>1,461.3049</b> | <b>0.1797</b> |     | <b>1,465.7981</b> |

### 3.6 Rough Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        |          | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.1004</b> | <b>9.7132</b> | <b>3.4820</b>  | <b>1.9324</b> | <b>5.4143</b> |          | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0128        | 1.0900e-003        | 0.0139        | 3.6800e-003    | 1.0400e-003        | 4.7200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1916</b> | <b>2.2700e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1300e-003</b> | <b>0.0532</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.3133        | 25.3911        | 28.4556        | 0.0536        |               | 0.9631        | 0.9631        |                | 0.9631        | 0.9631        | 0.0000        | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>1.3133</b> | <b>25.3911</b> | <b>28.4556</b> | <b>0.0536</b> | <b>3.2545</b> | <b>0.9631</b> | <b>4.2176</b> | <b>1.4886</b>  | <b>0.9631</b> | <b>2.4517</b> | <b>0.0000</b> | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.3900e-003   | 0.2084        | 0.0550        | 5.0000e-004        | 0.0120        | 1.0900e-003        | 0.0130        | 3.4800e-003    | 1.0400e-003        | 4.5200e-003   |          | 54.2258         | 54.2258         | 4.3900e-003        |     | 54.3354         |
| Worker       | 0.0615        | 0.0387        | 0.5237        | 1.7500e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 174.4070        | 174.4070        | 3.9800e-003        |     | 174.5064        |
| <b>Total</b> | <b>0.0679</b> | <b>0.2471</b> | <b>0.5787</b> | <b>2.2500e-003</b> | <b>0.1768</b> | <b>2.2700e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1300e-003</b> | <b>0.0496</b> |          | <b>228.6328</b> | <b>228.6328</b> | <b>8.3700e-003</b> |     | <b>228.8418</b> |

### 3.7 Rough Grading Soil Haul - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.7411        | 63.4000        | 16.0196        | 0.1765        | 4.0146        | 0.2053        | 4.2199        | 1.0990         | 0.1964        | 1.2954        |          | 19,669.0776        | 19,669.0776        | 2.0389        |     | 19,720.0489        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003    | 0.0982         | 3.3000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>1.7526</b> | <b>63.4073</b> | <b>16.1178</b> | <b>0.1768</b> | <b>4.0482</b> | <b>0.2055</b> | <b>4.2537</b> | <b>1.1079</b>  | <b>0.1966</b> | <b>1.3045</b> |          | <b>19,701.7789</b> | <b>19,701.7789</b> | <b>2.0396</b> |     | <b>19,752.7688</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7700e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1769</b> | <b>0.1769</b> | <b>0.0000</b>  | <b>0.1769</b> | <b>0.1769</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.7411        | 63.4000        | 16.0196        | 0.1765        | 3.7403        | 0.2053        | 3.9455        | 1.0317         | 0.1964        | 1.2280        |          | 19,669.0776        | 19,669.0776        | 2.0389        |     | 19,720.0489        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0115        | 7.2600e-003    | 0.0982         | 3.3000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 32.7013            | 32.7013            | 7.5000e-004   |     | 32.7199            |
| <b>Total</b> | <b>1.7526</b> | <b>63.4073</b> | <b>16.1178</b> | <b>0.1768</b> | <b>3.7712</b> | <b>0.2055</b> | <b>3.9767</b> | <b>1.0399</b>  | <b>0.1966</b> | <b>1.2365</b> |          | <b>19,701.7789</b> | <b>19,701.7789</b> | <b>2.0396</b> |     | <b>19,752.7688</b> |

Construction-Mitigated - Orange County, Winter

## Construction-Mitigated Orange County, Winter

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                           | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator      | 278.34 | 1000sqft      | 1.06        | 278,337.00         | 0          |
| Other Asphalt Surfaces              | 0.33   | Acre          | 0.33        | 0.00               | 0          |
| Parking Lot                         | 2.14   | 1000sqft      | 0.05        | 2,140.00           | 0          |
| City Park                           | 0.50   | Acre          | 0.50        | 0.00               | 0          |
| High Turnover (Sit Down Restaurant) | 2.00   | 1000sqft      | 0.00        | 2,000.00           | 0          |
| Apartments Mid Rise                 | 350.00 | Dwelling Unit | 3.74        | 440,627.00         | 1001       |
| Strip Mall                          | 5.50   | 1000sqft      | 0.00        | 5,500.00           | 0          |

#### 1.2 Other Project Characteristics

|                                     |                            |                                     |       |                                     |       |
|-------------------------------------|----------------------------|-------------------------------------|-------|-------------------------------------|-------|
| <b>Urbanization</b>                 | Urban                      | <b>Wind Speed (m/s)</b>             | 2.2   | <b>Precipitation Freq (Days)</b>    | 30    |
| <b>Climate Zone</b>                 | 8                          |                                     |       | <b>Operational Year</b>             | 2024  |
| <b>Utility Company</b>              | Southern California Edison |                                     |       |                                     |       |
| <b>CO2 Intensity<br/>(lb/MW hr)</b> | 702.44                     | <b>CH4 Intensity<br/>(lb/MW hr)</b> | 0.029 | <b>N2O Intensity<br/>(lb/MW hr)</b> | 0.006 |

#### 1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Based on information provided.

Construction Phase - Based on information provided.

Off-road Equipment -

Off-road Equipment - Based on information provided.

Off-road Equipment - Shared equipment with building demolition per information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Off-road Equipment - Based on information provided.

Trips and VMT - Based on information provided. Coating worker trips based on CalEEMod building construction/coating working trip ratio of 20%.

Demolition -

Grading -

Architectural Coating - Based on information provided.

Construction Off-road Equipment Mitigation - Based on SCAQMD Rules 403 and 1186.

| Table Name              | Column Name                    | Default Value | New Value |
|-------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation  | CleanPavedRoadPercentReduction | 0             | 9         |
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed   | 0             | 15        |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 6.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 5.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 1.00      |
| tblConstEquipMitigation | NumberOfEquipmentMitigated     | 0.00          | 2.00      |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |
| tblConstEquipMitigation | Tier                           | No Change     | Tier 3    |

|                         |                   |            |            |
|-------------------------|-------------------|------------|------------|
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstEquipMitigation | Tier              | No Change  | Tier 3     |
| tblConstructionPhase    | NumDays           | 20.00      | 22.00      |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 3.00       |
| tblConstructionPhase    | NumDays           | 20.00      | 7.00       |
| tblGrading              | MaterialExported  | 0.00       | 7,542.00   |
| tblLandUse              | LandUseSquareFeet | 278,340.00 | 278,337.00 |
| tblLandUse              | LandUseSquareFeet | 14,374.80  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 21,780.00  | 0.00       |
| tblLandUse              | LandUseSquareFeet | 350,000.00 | 440,627.00 |
| tblLandUse              | LotAcreage        | 6.39       | 1.06       |
| tblLandUse              | LotAcreage        | 0.05       | 0.00       |
| tblLandUse              | LotAcreage        | 9.21       | 3.74       |
| tblLandUse              | LotAcreage        | 0.13       | 0.00       |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 158.00     | 300.00     |
| tblOffRoadEquipment     | HorsePower        | 187.00     | 238.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 365.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 257.00     |
| tblOffRoadEquipment     | HorsePower        | 247.00     | 562.00     |
| tblOffRoadEquipment     | HorsePower        | 367.00     | 407.00     |
| tblOffRoadEquipment     | HorsePower        | 65.00      | 75.00      |

|                     |                            |        |          |
|---------------------|----------------------------|--------|----------|
| tblOffRoadEquipment | HorsePower                 | 97.00  | 260.00   |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 1.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 3.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00   | 0.00     |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 30.00    |
| tblTripsAndVMT      | HaulingTripLength          | 20.00  | 4.70     |
| tblTripsAndVMT      | HaulingTripNumber          | 831.00 | 2,089.00 |
| tblTripsAndVMT      | HaulingTripNumber          | 396.00 | 153.00   |
| tblTripsAndVMT      | HaulingTripNumber          | 746.00 | 1,614.00 |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 4.00     |
| tblTripsAndVMT      | VendorTripNumber           | 0.00   | 2.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 23.00  | 40.00    |
| tblTripsAndVMT      | WorkerTripNumber           | 0.00   | 8.00     |
| tblTripsAndVMT      | WorkerTripNumber           | 10.00  | 16.00    |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG    | NOx      | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|--------|----------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day |          |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 8.4128 | 120.8171 | 67.5284 | 0.2301 | 40.3177       | 3.2882       | 43.6059    | 6.5335         | 3.0318        | 9.5653      | 0.0000   | 24,217.5724 | 24,217.5724 | 4.7510 | 0.0000 | 24,336.3478 |
| 2020    | 6.6685 | 123.2034 | 48.6083 | 0.2396 | 22.6094       | 2.4161       | 22.8399    | 4.8519         | 2.2305        | 6.8715      | 0.0000   | 25,756.9552 | 25,756.9552 | 4.0809 | 0.0000 | 25,858.9771 |
| Maximum | 8.4128 | 123.2034 | 67.5284 | 0.2396 | 40.3177       | 3.2882       | 43.6059    | 6.5335         | 3.0318        | 9.5653      | 0.0000   | 25,756.9552 | 25,756.9552 | 4.7510 | 0.0000 | 25,858.9771 |

#### Mitigated Construction

|         | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|---------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Year    | lb/day |         |         |        |               |              |            |                |               |             | lb/day   |             |             |        |        |             |
| 2019    | 4.1664 | 96.6696 | 70.2325 | 0.2301 | 19.0461       | 2.1430       | 21.1892    | 3.2885         | 2.1348        | 5.4233      | 0.0000   | 24,217.5724 | 24,217.5724 | 4.7510 | 0.0000 | 24,336.3478 |
| 2020    | 3.4282 | 94.5128 | 51.1849 | 0.2396 | 16.6863       | 1.3516       | 16.9896    | 3.8380         | 1.3424        | 4.1358      | 0.0000   | 25,756.9552 | 25,756.9552 | 4.0809 | 0.0000 | 25,858.9771 |
| Maximum | 4.1664 | 96.6696 | 70.2325 | 0.2396 | 19.0461       | 2.1430       | 21.1892    | 3.8380         | 2.1348        | 5.4233      | 0.0000   | 25,756.9552 | 25,756.9552 | 4.7510 | 0.0000 | 25,858.9771 |

|                   | ROG   | NOx   | CO    | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|-------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 49.64 | 21.65 | -4.55 | 0.00 | 43.22         | 38.74        | 42.54      | 37.41          | 33.92         | 41.84       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name                | Phase Type | Start Date | End Date   | Num Days Week | Num Days | Phase Description |
|--------------|---------------------------|------------|------------|------------|---------------|----------|-------------------|
| 1            | Building Demolition       | Demolition | 12/1/2019  | 12/27/2019 | 5             | 20       |                   |
| 2            | Building Demo Debris Haul | Demolition | 12/5/2019  | 1/3/2020   | 5             | 22       |                   |
| 3            | Asphalt Demolition        | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 4            | Asphalt Demo Debris Haul  | Demolition | 12/24/2019 | 12/26/2019 | 5             | 3        |                   |
| 5            | Rough Grading             | Grading    | 1/7/2020   | 1/9/2020   | 5             | 3        |                   |
| 6            | Rough Grading Soil Haul   | Grading    | 1/9/2020   | 1/17/2020  | 5             | 7        |                   |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 1.44**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0**

#### OffRoad Equipment

| Phase Name                | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|---------------------------|---------------------------|--------|-------------|-------------|-------------|
| Building Demolition       | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demolition       | Excavators                | 3      | 8.00        | 300         | 0.38        |
| Building Demolition       | Rubber Tired Dozers       | 3      | 8.00        | 365         | 0.40        |
| Building Demolition       | Skid Steer Loaders        | 1      | 8.00        | 75          | 0.37        |
| Building Demolition       | Tractors/Loaders/Backhoes | 2      | 8.00        | 260         | 0.37        |
| Building Demo Debris Haul | Concrete/Industrial Saws  | 0      | 8.00        | 81          | 0.73        |
| Building Demo Debris Haul | Excavators                | 1      | 8.00        | 300         | 0.38        |
| Building Demo Debris Haul | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |

|                          |                           |   |      |     |      |
|--------------------------|---------------------------|---|------|-----|------|
| Asphalt Demolition       | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demolition       | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Asphalt Demolition       | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Asphalt Demo Debris Haul | Concrete/Industrial Saws  | 0 | 8.00 | 81  | 0.73 |
| Asphalt Demo Debris Haul | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Asphalt Demo Debris Haul | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading            | Excavators                | 0 | 8.00 | 158 | 0.38 |
| Rough Grading            | Graders                   | 1 | 8.00 | 238 | 0.41 |
| Rough Grading            | Rubber Tired Dozers       | 1 | 8.00 | 257 | 0.40 |
| Rough Grading            | Rubber Tired Dozers       | 1 | 8.00 | 562 | 0.40 |
| Rough Grading            | Scrapers                  | 1 | 8.00 | 407 | 0.48 |
| Rough Grading            | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Rough Grading Soil Haul  | Excavators                | 1 | 8.00 | 300 | 0.38 |
| Rough Grading Soil Haul  | Graders                   | 0 | 8.00 | 187 | 0.41 |
| Rough Grading Soil Haul  | Rubber Tired Dozers       | 0 | 8.00 | 247 | 0.40 |
| Rough Grading Soil Haul  | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |

### **Trips and VMT**

| Phase Name                | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Building Demolition       | 9                       | 40.00              | 4.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Demo Debris Haul | 1                       | 3.00               | 0.00               | 2,089.00            | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demolition        | 0                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Asphalt Demo Debris Haul  | 1                       | 3.00               | 0.00               | 153.00              | 14.70              | 6.90               | 4.70                | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading             | 4                       | 16.00              | 2.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Rough Grading Soil Haul   | 1                       | 3.00               | 0.00               | 1,614.00            | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Replace Ground Cover

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Building Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 6.1939        | 67.4490        | 49.6748        | 0.0864        |               | 2.8698        | 2.8698        |                | 2.6402        | 2.6402        |          | 8,552.7391        | 8,552.7391        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>6.1939</b> | <b>67.4490</b> | <b>49.6748</b> | <b>0.0864</b> | <b>0.0000</b> | <b>2.8698</b> | <b>2.8698</b> | <b>0.0000</b>  | <b>2.6402</b> | <b>2.6402</b> |          | <b>8,552.7391</b> | <b>8,552.7391</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0156        | 0.4544        | 0.1317        | 9.8000e-004        | 0.0256        | 3.1200e-003        | 0.0287        | 7.3500e-003    | 2.9900e-003        | 0.0103        |          | 106.5421        | 106.5421        | 9.7000e-003   |     | 106.7847        |
| Worker       | 0.1860        | 0.1188        | 1.3211        | 4.2800e-003        | 0.4471        | 2.9900e-003        | 0.4501        | 0.1186         | 2.7500e-003        | 0.1213        |          | 426.3095        | 426.3095        | 0.0105        |     | 426.5721        |
| <b>Total</b> | <b>0.2016</b> | <b>0.5732</b> | <b>1.4529</b> | <b>5.2600e-003</b> | <b>0.4727</b> | <b>6.1100e-003</b> | <b>0.4788</b> | <b>0.1259</b>  | <b>5.7400e-003</b> | <b>0.1317</b> |          | <b>532.8515</b> | <b>532.8515</b> | <b>0.0202</b> |     | <b>533.3567</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.1168        | 41.1295        | 46.4014        | 0.0864        |               | 1.6032        | 1.6032        |                | 1.6032        | 1.6032        | 0.0000        | 8,552.7390        | 8,552.7390        | 2.7060        |     | 8,620.3889        |
| <b>Total</b>  | <b>2.1168</b> | <b>41.1295</b> | <b>46.4014</b> | <b>0.0864</b> | <b>0.0000</b> | <b>1.6032</b> | <b>1.6032</b> | <b>0.0000</b>  | <b>1.6032</b> | <b>1.6032</b> | <b>0.0000</b> | <b>8,552.7390</b> | <b>8,552.7390</b> | <b>2.7060</b> |     | <b>8,620.3889</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |               |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000        |     | 0.0000          |
| Vendor       | 0.0156        | 0.4544        | 0.1317        | 9.8000e-004        | 0.0239        | 3.1200e-003        | 0.0270        | 6.9500e-003    | 2.9900e-003        | 9.9400e-003   |          | 106.5421        | 106.5421        | 9.7000e-003   |     | 106.7847        |
| Worker       | 0.1860        | 0.1188        | 1.3211        | 4.2800e-003        | 0.4121        | 2.9900e-003        | 0.4151        | 0.1100         | 2.7500e-003        | 0.1127        |          | 426.3095        | 426.3095        | 0.0105        |     | 426.5721        |
| <b>Total</b> | <b>0.2016</b> | <b>0.5732</b> | <b>1.4529</b> | <b>5.2600e-003</b> | <b>0.4360</b> | <b>6.1100e-003</b> | <b>0.4422</b> | <b>0.1169</b>  | <b>5.7400e-003</b> | <b>0.1227</b> |          | <b>532.8515</b> | <b>532.8515</b> | <b>0.0202</b> |     | <b>533.3567</b> |

### 3.3 Building Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 8.1705        | 0.0000        | 8.1705        | 1.2371         | 0.0000        | 1.2371        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |               | 0.1162        | 0.1162        |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>8.1705</b> | <b>0.1162</b> | <b>8.2867</b> | <b>1.2371</b>  | <b>0.1069</b> | <b>1.3440</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.1207        | 38.4141        | 9.8404        | 0.1051        | 2.7765        | 0.1611        | 2.9376        | 0.7516         | 0.1541        | 0.9057        |          | 11,685.2802        | 11,685.2802        | 1.2181        |     | 11,715.7321        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0140        | 8.9100e-003    | 0.0991        | 3.2000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 31.9732            | 31.9732            | 7.9000e-004   |     | 31.9929            |
| <b>Total</b> | <b>1.1346</b> | <b>38.4230</b> | <b>9.9395</b> | <b>0.1054</b> | <b>2.8100</b> | <b>0.1613</b> | <b>2.9714</b> | <b>0.7605</b>  | <b>0.1543</b> | <b>0.9148</b> |          | <b>11,717.2534</b> | <b>11,717.2534</b> | <b>1.2189</b> |     | <b>11,747.7250</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 3.4929        | 0.0000        | 3.4929        | 0.5289         | 0.0000        | 0.5289        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7800e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7800e-003</b> | <b>3.4929</b> | <b>0.1769</b> | <b>3.6698</b> | <b>0.5289</b>  | <b>0.1769</b> | <b>0.7058</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.1207        | 38.4141        | 9.8404        | 0.1051        | 2.5803        | 0.1611        | 2.7414        | 0.7034         | 0.1541        | 0.8575        |          | 11,685.2802        | 11,685.2802        | 1.2181        |     | 11,715.7321        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0140        | 8.9100e-003    | 0.0991        | 3.2000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 31.9732            | 31.9732            | 7.9000e-004   |     | 31.9929            |
| <b>Total</b> | <b>1.1346</b> | <b>38.4230</b> | <b>9.9395</b> | <b>0.1054</b> | <b>2.6112</b> | <b>0.1613</b> | <b>2.7725</b> | <b>0.7117</b>  | <b>0.1543</b> | <b>0.8660</b> |          | <b>11,717.2534</b> | <b>11,717.2534</b> | <b>1.2189</b> |     | <b>11,747.7250</b> |

### 3.3 Building Demo Debris Haul - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 8.1705        | 0.0000        | 8.1705        | 1.2371         | 0.0000        | 1.2371        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>8.1705</b> | <b>0.1041</b> | <b>8.2747</b> | <b>1.2371</b>  | <b>0.0958</b> | <b>1.3329</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.0209        | 35.4564        | 9.6210        | 0.1036        | 14.4053        | 0.1262        | 14.5315        | 3.6059         | 0.1207        | 3.7266        |          | 11,547.1605        | 11,547.1605        | 1.2018        |     | 11,577.2043        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003    | 0.0908        | 3.1000e-004   | 0.0335         | 2.2000e-004   | 0.0338         | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>1.0340</b> | <b>35.4644</b> | <b>9.7117</b> | <b>0.1039</b> | <b>14.4389</b> | <b>0.1264</b> | <b>14.5653</b> | <b>3.6148</b>  | <b>0.1209</b> | <b>3.7357</b> |          | <b>11,578.1092</b> | <b>11,578.1092</b> | <b>1.2025</b> |     | <b>11,608.1705</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 3.4929        | 0.0000        | 3.4929        | 0.5289         | 0.0000        | 0.5289        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7700e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7700e-003</b> | <b>3.4929</b> | <b>0.1769</b> | <b>3.6698</b> | <b>0.5289</b>  | <b>0.1769</b> | <b>0.7058</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO            | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|---------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |               |               |                |               |                |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.0209        | 35.4564        | 9.6210        | 0.1036        | 13.1625        | 0.1262        | 13.2887        | 3.3009         | 0.1207        | 3.4216        |          | 11,547.1605        | 11,547.1605        | 1.2018        |     | 11,577.2043        |
| Vendor       | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003    | 0.0908        | 3.1000e-004   | 0.0309         | 2.2000e-004   | 0.0311         | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>1.0340</b> | <b>35.4644</b> | <b>9.7117</b> | <b>0.1039</b> | <b>13.1934</b> | <b>0.1264</b> | <b>13.3198</b> | <b>3.3091</b>  | <b>0.1209</b> | <b>3.4300</b> |          | <b>11,578.1092</b> | <b>11,578.1092</b> | <b>1.2025</b> |     | <b>11,608.1705</b> |

### 3.4 Asphalt Demolition - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0372        | 0.0238        | 0.2642        | 8.6000e-004        | 0.0894        | 6.0000e-004        | 0.0900        | 0.0237         | 5.5000e-004        | 0.0243        |          | 85.2619        | 85.2619        | 2.1000e-003        |     | 85.3144        |
| <b>Total</b> | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>8.6000e-004</b> | <b>0.0894</b> | <b>6.0000e-004</b> | <b>0.0900</b> | <b>0.0237</b>  | <b>5.5000e-004</b> | <b>0.0243</b> |          | <b>85.2619</b> | <b>85.2619</b> | <b>2.1000e-003</b> |     | <b>85.3144</b> |

### Mitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|---------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day        |               |               |               |     |               |
| Off-Road     | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |     | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |     | <b>0.0000</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0372        | 0.0238        | 0.2642        | 8.6000e-004        | 0.0824        | 6.0000e-004        | 0.0830        | 0.0220         | 5.5000e-004        | 0.0226        |          | 85.2619        | 85.2619        | 2.1000e-003        |     | 85.3144        |
| <b>Total</b> | <b>0.0372</b> | <b>0.0238</b> | <b>0.2642</b> | <b>8.6000e-004</b> | <b>0.0824</b> | <b>6.0000e-004</b> | <b>0.0830</b> | <b>0.0220</b>  | <b>5.5000e-004</b> | <b>0.0226</b> |          | <b>85.2619</b> | <b>85.2619</b> | <b>2.1000e-003</b> |     | <b>85.3144</b> |

### 3.5 Asphalt Demo Debris Haul - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 28.5320        | 0.0000        | 28.5320        | 4.3200         | 0.0000        | 4.3200        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3259        | 3.5786        | 2.2388        | 9.7800e-003        |                | 0.1162        | 0.1162         |                | 0.1069        | 0.1069        |          | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.3259</b> | <b>3.5786</b> | <b>2.2388</b> | <b>9.7800e-003</b> | <b>28.5320</b> | <b>0.1162</b> | <b>28.6482</b> | <b>4.3200</b>  | <b>0.1069</b> | <b>4.4269</b> |          | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1797        | 7.1820        | 1.6203        | 0.0123        | 0.2095        | 0.0177        | 0.2273        | 0.0574         | 0.0170        | 0.0744        |          | 1,362.3317        | 1,362.3317        | 0.1908        |     | 1,367.1016        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0140        | 8.9100e-003   | 0.0991        | 3.2000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.1000e-004   | 9.1000e-003   |          | 31.9732           | 31.9732           | 7.9000e-004   |     | 31.9929           |
| <b>Total</b> | <b>0.1937</b> | <b>7.1909</b> | <b>1.7194</b> | <b>0.0126</b> | <b>0.2430</b> | <b>0.0180</b> | <b>0.2610</b> | <b>0.0663</b>  | <b>0.0172</b> | <b>0.0835</b> |          | <b>1,394.3049</b> | <b>1,394.3049</b> | <b>0.1916</b> |     | <b>1,399.0945</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |                |               |                |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 12.1974        | 0.0000        | 12.1974        | 1.8468         | 0.0000        | 1.8468        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7800e-003        |                | 0.1769        | 0.1769         |                | 0.1769        | 0.1769        | 0.0000        | 967.5809        | 967.5809        | 0.3061        |     | 975.2342        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7800e-003</b> | <b>12.1974</b> | <b>0.1769</b> | <b>12.3744</b> | <b>1.8468</b>  | <b>0.1769</b> | <b>2.0237</b> | <b>0.0000</b> | <b>967.5809</b> | <b>967.5809</b> | <b>0.3061</b> |     | <b>975.2342</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Hauling      | 0.1797        | 7.1820        | 1.6203        | 0.0123        | 0.1953        | 0.0177        | 0.2130        | 0.0539         | 0.0170        | 0.0709        |          | 1,362.3317        | 1,362.3317        | 0.1908        |     | 1,367.1016        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        |     | 0.0000            |
| Worker       | 0.0140        | 8.9100e-003   | 0.0991        | 3.2000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.1000e-004   | 8.4600e-003   |          | 31.9732           | 31.9732           | 7.9000e-004   |     | 31.9929           |
| <b>Total</b> | <b>0.1937</b> | <b>7.1909</b> | <b>1.7194</b> | <b>0.0126</b> | <b>0.2262</b> | <b>0.0180</b> | <b>0.2441</b> | <b>0.0622</b>  | <b>0.0172</b> | <b>0.0794</b> |          | <b>1,394.3049</b> | <b>1,394.3049</b> | <b>0.1916</b> |     | <b>1,399.0945</b> |

### 3.6 Rough Grading - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 7.6128        | 0.0000        | 7.6128        | 3.4820         | 0.0000        | 3.4820        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 4.4865        | 55.5857        | 28.8917        | 0.0536        |               | 2.1004        | 2.1004        |                | 1.9324        | 1.9324        |          | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>4.4865</b> | <b>55.5857</b> | <b>28.8917</b> | <b>0.0536</b> | <b>7.6128</b> | <b>2.1004</b> | <b>9.7132</b> | <b>3.4820</b>  | <b>1.9324</b> | <b>5.4143</b> |          | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0128        | 1.1100e-003        | 0.0139        | 3.6800e-003    | 1.0600e-003        | 4.7400e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1788        | 1.1800e-003        | 0.1800        | 0.0474         | 1.0900e-003        | 0.0485        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1916</b> | <b>2.2900e-003</b> | <b>0.1939</b> | <b>0.0511</b>  | <b>2.1500e-003</b> | <b>0.0533</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 3.2545        | 0.0000        | 3.2545        | 1.4886         | 0.0000        | 1.4886        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 1.3133        | 25.3911        | 28.4556        | 0.0536        |               | 0.9631        | 0.9631        |                | 0.9631        | 0.9631        | 0.0000        | 5,190.3219        | 5,190.3219        | 1.6787        |     | 5,232.2883        |
| <b>Total</b>  | <b>1.3133</b> | <b>25.3911</b> | <b>28.4556</b> | <b>0.0536</b> | <b>3.2545</b> | <b>0.9631</b> | <b>4.2176</b> | <b>1.4886</b>  | <b>0.9631</b> | <b>2.4517</b> | <b>0.0000</b> | <b>5,190.3219</b> | <b>5,190.3219</b> | <b>1.6787</b> |     | <b>5,232.2883</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4                | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |                    |               |                |                    |               | lb/day   |                 |                 |                    |     |                 |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        |          | 0.0000          | 0.0000          | 0.0000             |     | 0.0000          |
| Vendor       | 6.6700e-003   | 0.2083        | 0.0603        | 4.9000e-004        | 0.0120        | 1.1100e-003        | 0.0131        | 3.4800e-003    | 1.0600e-003        | 4.5300e-003   |          | 52.8932         | 52.8932         | 4.6100e-003        |     | 53.0084         |
| Worker       | 0.0695        | 0.0426        | 0.4841        | 1.6600e-003        | 0.1649        | 1.1800e-003        | 0.1660        | 0.0440         | 1.0900e-003        | 0.0451        |          | 165.0594        | 165.0594        | 3.7700e-003        |     | 165.1535        |
| <b>Total</b> | <b>0.0762</b> | <b>0.2509</b> | <b>0.5443</b> | <b>2.1500e-003</b> | <b>0.1768</b> | <b>2.2900e-003</b> | <b>0.1791</b> | <b>0.0475</b>  | <b>2.1500e-003</b> | <b>0.0496</b> |          | <b>217.9526</b> | <b>217.9526</b> | <b>8.3800e-003</b> |     | <b>218.1619</b> |

### 3.7 Rough Grading Soil Haul - 2020

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.3084        | 3.1607        | 2.2149        | 9.7700e-003        |               | 0.1041        | 0.1041        |                | 0.0958        | 0.0958        |          | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.3084</b> | <b>3.1607</b> | <b>2.2149</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1041</b> | <b>0.1041</b> | <b>0.0000</b>  | <b>0.0958</b> | <b>0.0958</b> |          | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

#### Unmitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.7844        | 64.1982        | 16.8666        | 0.1738        | 4.0146        | 0.2091        | 4.2237        | 1.0990         | 0.2000        | 1.2990        |          | 19,372.1484        | 19,372.1484        | 2.0873        |     | 19,424.3314        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003    | 0.0908         | 3.1000e-004   | 0.0335        | 2.2000e-004   | 0.0338        | 8.8900e-003    | 2.0000e-004   | 9.1000e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>1.7975</b> | <b>64.2062</b> | <b>16.9574</b> | <b>0.1741</b> | <b>4.0482</b> | <b>0.2093</b> | <b>4.2574</b> | <b>1.1079</b>  | <b>0.2002</b> | <b>1.3081</b> |          | <b>19,403.0970</b> | <b>19,403.0970</b> | <b>2.0880</b> |     | <b>19,455.2977</b> |

### Mitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category      | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Fugitive Dust |               |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road      | 0.2413        | 4.6646        | 5.2276        | 9.7700e-003        |               | 0.1769        | 0.1769        |                | 0.1769        | 0.1769        | 0.0000        | 945.5837        | 945.5837        | 0.3058        |     | 953.2292        |
| <b>Total</b>  | <b>0.2413</b> | <b>4.6646</b> | <b>5.2276</b> | <b>9.7700e-003</b> | <b>0.0000</b> | <b>0.1769</b> | <b>0.1769</b> | <b>0.0000</b>  | <b>0.1769</b> | <b>0.1769</b> | <b>0.0000</b> | <b>945.5837</b> | <b>945.5837</b> | <b>0.3058</b> |     | <b>953.2292</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2          | Total CO2          | CH4           | N2O | CO2e               |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|-----|--------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                    |                    |               |     |                    |
| Hauling      | 1.7844        | 64.1982        | 16.8666        | 0.1738        | 3.7403        | 0.2091        | 3.9493        | 1.0317         | 0.2000        | 1.2317        |          | 19,372.1484        | 19,372.1484        | 2.0873        |     | 19,424.3314        |
| Vendor       | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        |          | 0.0000             | 0.0000             | 0.0000        |     | 0.0000             |
| Worker       | 0.0130        | 7.9800e-003    | 0.0908         | 3.1000e-004   | 0.0309        | 2.2000e-004   | 0.0311        | 8.2500e-003    | 2.0000e-004   | 8.4500e-003   |          | 30.9486            | 30.9486            | 7.1000e-004   |     | 30.9663            |
| <b>Total</b> | <b>1.7975</b> | <b>64.2062</b> | <b>16.9574</b> | <b>0.1741</b> | <b>3.7712</b> | <b>0.2093</b> | <b>3.9805</b> | <b>1.0399</b>  | <b>0.2002</b> | <b>1.2401</b> |          | <b>19,403.0970</b> | <b>19,403.0970</b> | <b>2.0880</b> |     | <b>19,455.2977</b> |

## Construction-Mitigated Orange County, Mitigation Report

### Construction Mitigation Summary

| Phase                     | ROG  | NOx   | CO    | SO2  | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|---------------------------|------|-------|-------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction         |      |       |       |      |              |               |          |           |           |      |      |      |
| Asphalt Demo Debris Haul  | 0.17 | -0.10 | -0.78 | 0.00 | -0.50        | -0.61         | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Asphalt Demolition        | 0.00 | 0.00  | 0.00  | 0.00 | 0.00         | 0.00          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Building Demo Debris Haul | 0.06 | -0.03 | -0.25 | 0.00 | -0.23        | -0.28         | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Building Demolition       | 0.64 | 0.39  | 0.06  | 0.00 | 0.44         | 0.39          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Rough Grading             | 0.70 | 0.54  | 0.01  | 0.00 | 0.54         | 0.50          | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |
| Rough Grading Soil Haul   | 0.03 | -0.02 | -0.16 | 0.00 | -0.24        | -0.27         | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

### OFFROAD Equipment Mitigation

| Equipment Type            | Fuel Type | Tier      | Number Mitigated | Total Number of Equipment | DPF       | Oxidation Catalyst |
|---------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Concrete/Industrial Saws  | Diesel    | No Change | 0                | 0                         | No Change | 0.00               |
| Excavators                | Diesel    | Tier 3    | 6                | 6                         | No Change | 0.00               |
| Graders                   | Diesel    | Tier 3    | 1                | 1                         | No Change | 0.00               |
| Rubber Tired Dozers       | Diesel    | Tier 3    | 5                | 5                         | No Change | 0.00               |
| Scrapers                  | Diesel    | Tier 3    | 1                | 1                         | No Change | 0.00               |
| Skid Steer Loaders        | Diesel    | Tier 3    | 1                | 1                         | No Change | 0.00               |
| Tractors/Loaders/Backhoes | Diesel    | Tier 3    | 2                | 2                         | No Change | 0.00               |

| Equipment Type              | ROG          | NOx          | CO           | SO2          | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2          | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| Unmitigated tons/yr         |              |              |              |              |              |               | Unmitigated mt/yr |              |              |              |              |              |
| Concrete/Industrial Saws    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000      | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Excavators                  | 1.49000E-002 | 1.62530E-001 | 1.02870E-001 | 4.50000E-004 | 5.28000E-003 | 4.86000E-003  | 0.00000E+000      | 4.02779E+001 | 4.02779E+001 | 1.27700E-002 | 0.00000E+000 | 4.05972E+001 |
| Graders                     | 9.10000E-004 | 1.20800E-002 | 3.46000E-003 | 1.00000E-005 | 3.90000E-004 | 3.60000E-004  | 0.00000E+000      | 1.11312E+000 | 1.11312E+000 | 3.60000E-004 | 0.00000E+000 | 1.12212E+000 |
| Rubber Tired Dozers         | 4.83600E-002 | 5.26330E-001 | 3.93870E-001 | 4.20000E-004 | 2.38500E-002 | 2.19400E-002  | 0.00000E+000      | 3.81019E+001 | 3.81019E+001 | 1.20800E-002 | 0.00000E+000 | 3.84040E+001 |
| Scrapers                    | 1.65000E-003 | 1.95500E-002 | 1.24100E-002 | 3.00000E-005 | 7.60000E-004 | 7.00000E-004  | 0.00000E+000      | 2.21386E+000 | 2.21386E+000 | 7.20000E-004 | 0.00000E+000 | 2.23176E+000 |
| Skid Steer Loaders          | 9.80000E-004 | 1.30000E-002 | 1.60400E-002 | 2.00000E-005 | 6.00000E-004 | 5.50000E-004  | 0.00000E+000      | 2.14179E+000 | 2.14179E+000 | 6.80000E-004 | 0.00000E+000 | 2.15873E+000 |
| Tractors/Loaders/Bulldozers | 6.99000E-003 | 7.95600E-002 | 4.71400E-002 | 1.60000E-004 | 2.77000E-003 | 2.55000E-003  | 0.00000E+000      | 1.47481E+001 | 1.47481E+001 | 4.67000E-003 | 0.00000E+000 | 1.48647E+001 |

| Equipment Type              | ROG          | NOx          | CO           | SO2          | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2        | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|-----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Mitigated tons/yr           |              |              |              |              |              |               | Mitigated mt/yr |              |              |              |              |              |
| Concrete/Industrial Saws    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000  | 0.00000E+000    | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Excavators                  | 1.11000E-002 | 2.14570E-001 | 2.40470E-001 | 4.50000E-004 | 8.14000E-003 | 8.14000E-003  | 0.00000E+000    | 4.02778E+001 | 4.02778E+001 | 1.27700E-002 | 0.00000E+000 | 4.05972E+001 |
| Graders                     | 3.10000E-004 | 5.99000E-003 | 6.71000E-003 | 1.00000E-005 | 2.30000E-004 | 2.30000E-004  | 0.00000E+000    | 1.11312E+000 | 1.11312E+000 | 3.60000E-004 | 0.00000E+000 | 1.12212E+000 |
| Rubber Tired Dozers         | 1.03100E-002 | 1.99330E-001 | 2.23380E-001 | 4.20000E-004 | 7.56000E-003 | 7.56000E-003  | 0.00000E+000    | 3.81019E+001 | 3.81019E+001 | 1.20800E-002 | 0.00000E+000 | 3.84039E+001 |
| Scrapers                    | 6.20000E-004 | 1.19900E-002 | 1.34400E-002 | 3.00000E-005 | 4.50000E-004 | 4.50000E-004  | 0.00000E+000    | 2.21386E+000 | 2.21386E+000 | 7.20000E-004 | 0.00000E+000 | 2.23176E+000 |
| Skid Steer Loaders          | 5.90000E-004 | 1.34100E-002 | 1.81100E-002 | 2.00000E-005 | 9.40000E-004 | 9.40000E-004  | 0.00000E+000    | 2.14178E+000 | 2.14178E+000 | 6.80000E-004 | 0.00000E+000 | 2.15872E+000 |
| Tractors/Loaders/Bulldozers | 4.07000E-003 | 7.87300E-002 | 8.82300E-002 | 1.60000E-004 | 2.99000E-003 | 2.99000E-003  | 0.00000E+000    | 1.47481E+001 | 1.47481E+001 | 4.67000E-003 | 0.00000E+000 | 1.48647E+001 |

| Equipment Type              | ROG          | NOx           | CO            | SO2          | Exhaust PM10  | Exhaust PM2.5 | Bio- CO2     | NBio- CO2    | Total CO2    | CH4          | N2O          | CO2e         |
|-----------------------------|--------------|---------------|---------------|--------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction           |              |               |               |              |               |               |              |              |              |              |              |              |
| Concrete/Industrial Saws    | 0.00000E+000 | 0.00000E+000  | 0.00000E+000  | 0.00000E+000 | 0.00000E+000  | 0.00000E+000  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Excavators                  | 2.55034E-001 | -3.20187E-001 | -1.33761E+000 | 0.00000E+000 | -5.41667E-001 | -6.74897E-001 | 0.00000E+000 | 9.93102E-007 | 9.93102E-007 | 0.00000E+000 | 0.00000E+000 | 9.85290E-007 |
| Graders                     | 6.59341E-001 | 5.04139E-001  | -9.39306E-001 | 0.00000E+000 | 4.10256E-001  | 3.61111E-001  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Rubber Tired Dozers         | 7.86807E-001 | 6.21283E-001  | 4.32859E-001  | 0.00000E+000 | 6.83019E-001  | 6.55424E-001  | 0.00000E+000 | 1.31227E-006 | 1.31227E-006 | 0.00000E+000 | 0.00000E+000 | 1.04156E-006 |
| Scrapers                    | 6.24242E-001 | 3.86701E-001  | -8.29976E-002 | 0.00000E+000 | 4.07895E-001  | 3.57143E-001  | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 |
| Skid Steer Loaders          | 3.97959E-001 | -3.15385E-002 | -1.29052E-001 | 0.00000E+000 | -5.66667E-001 | -7.09091E-001 | 0.00000E+000 | 4.66899E-006 | 4.66899E-006 | 0.00000E+000 | 0.00000E+000 | 4.63235E-006 |
| Tractors/Loaders/Bulldozers | 4.17740E-001 | 1.04324E-002  | -8.71659E-001 | 0.00000E+000 | -7.94224E-002 | -1.72549E-001 | 0.00000E+000 | 1.35611E-006 | 1.35611E-006 | 0.00000E+000 | 0.00000E+000 | 6.72733E-007 |

## Fugitive Dust Mitigation

| Yes/No | Mitigation Measure                     | Mitigation Input   | Mitigation Input | Mitigation Input    |       |                          |
|--------|----------------------------------------|--------------------|------------------|---------------------|-------|--------------------------|
| No     | Soil Stabilizer for unpaved Roads      | PM10 Reduction     | 0.00             | PM2.5 Reduction     | 0.00  |                          |
| Yes    | Replace Ground Cover of Area Disturbed | PM10 Reduction     | 5.00             | PM2.5 Reduction     | 5.00  |                          |
| Yes    | Water Exposed Area                     | PM10 Reduction     | 55.00            | PM2.5 Reduction     | 55.00 | Frequency (per day) 2.00 |
| No     | Unpaved Road Mitigation                | Moisture Content % | 0.00             | Vehicle Speed (mph) | 15.00 |                          |
| Yes    | Clean Paved Road                       | % PM Reduction     | 9.00             |                     |       |                          |

| Phase                     | Source        | Unmitigated |       | Mitigated |       | Percent Reduction |       |
|---------------------------|---------------|-------------|-------|-----------|-------|-------------------|-------|
|                           |               | PM10        | PM2.5 | PM10      | PM2.5 | PM10              | PM2.5 |
| Asphalt Demo Debris Haul  | Fugitive Dust | 0.04        | 0.01  | 0.02      | 0.00  | 0.57              | 0.57  |
| Asphalt Demo Debris Haul  | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.06              | 0.00  |
| Asphalt Demolition        | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Asphalt Demolition        | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.00  |
| Building Demo Debris Haul | Fugitive Dust | 0.09        | 0.01  | 0.04      | 0.01  | 0.57              | 0.57  |
| Building Demo Debris Haul | Roads         | 0.05        | 0.01  | 0.04      | 0.01  | 0.08              | 0.07  |
| Building Demolition       | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Building Demolition       | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.08              | 0.07  |
| Rough Grading             | Fugitive Dust | 0.01        | 0.01  | 0.00      | 0.00  | 0.57              | 0.57  |
| Rough Grading             | Roads         | 0.00        | 0.00  | 0.00      | 0.00  | 0.07              | 0.13  |
| Rough Grading Soil Haul   | Fugitive Dust | 0.00        | 0.00  | 0.00      | 0.00  | 0.00              | 0.00  |
| Rough Grading Soil Haul   | Roads         | 0.01        | 0.00  | 0.01      | 0.00  | 0.07              | 0.06  |

# Construction Localized Significance Thresholds: Non-Residential - Demolition & Demolition Debris Haul

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment Used | Daily Hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|--------|----------------|-------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625 | 3              | 8           | 1.5   |
| NOx                               | 153                         | Graders   | 0.5            | 0.0625 |                |             | 0     |
| CO                                | 1,212                       | Dozers    | 0.5            | 0.0625 | 3              | 8           | 1.5   |
|                                   |                             | Scrapers  | 1              | 0.125  |                |             | 0     |
|                                   |                             |           |                |        |                | Acres       | 3.00  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 153  | 149  | 160  | 184  | 249  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 14   | 29   | 89   |

North Coastal Orange County

|       |            |      |      |      |      |  |
|-------|------------|------|------|------|------|--|
|       | 3.00 Acres |      |      |      |      |  |
|       | 25         | 50   | 100  | 200  | 500  |  |
| NOx   | 153        | 149  | 160  | 184  | 249  |  |
| CO    | 1212       | 1347 | 1822 | 3039 | 8086 |  |
| PM10  | 9          | 29   | 42   | 70   | 152  |  |
| PM2.5 | 6          | 8    | 14   | 29   | 89   |  |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No.                  |       | SRA No.    |       |
| 18                       | 3     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# Construction Localized Significance Thresholds: Residential - Demolition & Demolition Debris Haul

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 815                               | 2675                            | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 3              | 8           | 1.5   |
|                                   |                             | Graders   | 0.5            |                |             | 0     |
|                                   |                             | Dozers    | 0.5            | 3              | 8           | 1.5   |
|                                   |                             | Scrapers  | 1              |                |             | 0     |
| PM10                              | 237.86                      |           |                |                |             |       |
| PM2.5                             | 152.07                      |           |                |                |             |       |
|                                   |                             |           |                |                | Acres       | 3.00  |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 153  | 149  | 160  | 184  | 249  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 14   | 29   | 89   |

North Coastal Orange County

|       | 3.00 Acres | 25   | 50   | 100  | 200  | 500 |
|-------|------------|------|------|------|------|-----|
| NOx   | 153        | 149  | 160  | 184  | 249  |     |
| CO    | 1212       | 1347 | 1822 | 3039 | 8086 |     |
| PM10  | 9          | 29   | 42   | 70   | 152  |     |
| PM2.5 | 6          | 8    | 14   | 29   | 89   |     |

| Acre Below               | SRA No. | Acres | Acre Above | SRA No. | Acres |
|--------------------------|---------|-------|------------|---------|-------|
|                          | 18      | 3     |            | 18      | 3     |
| Distance Increment Below |         |       |            |         |       |
|                          |         | 500   |            |         |       |
| Distance Increment Above |         |       |            |         |       |
|                          |         | 500   |            |         |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Demolition, Demolition Debris Haul, & Site Preparation**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 4.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment Used | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|--------|----------------|-------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625 | 5              | 8           | 2.5   |
| NOx                               | 186                         | Graders   | 0.5            | 0.0625 |                |             | 0     |
| CO                                | 1,586                       | Dozers    | 0.5            | 0.0625 | 4              | 8           | 2     |
|                                   |                             | Scrapers  | 1              | 0.125  |                |             | 0     |
|                                   |                             |           |                |        |                | Acres       | 4.50  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 4     | 175  | 169  | 181  | 204  | 264  |
|       | 5     | 197  | 190  | 202  | 223  | 278  |
|       |       | 186  | 180  | 192  | 213  | 271  |
| CO    | 4     | 1461 | 1606 | 2139 | 3464 | 8679 |
|       | 5     | 1711 | 1864 | 2455 | 3888 | 9272 |
|       |       | 1586 | 1735 | 2297 | 3676 | 8976 |
| PM10  | 4     | 12   | 36   | 50   | 77   | 159  |
|       | 5     | 14   | 44   | 57   | 85   | 167  |
|       |       | 13   | 40   | 53   | 81   | 163  |
| PM2.5 | 4     | 8    | 10   | 16   | 32   | 95   |
|       | 5     | 9    | 11   | 18   | 35   | 101  |
|       |       | 8    | 10   | 17   | 34   | 98   |

North Coastal Orange County

4.50 Acres

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
|       | 25   | 50   | 100  | 200  | 500  |
| NOx   | 186  | 180  | 192  | 213  | 271  |
| CO    | 1586 | 1735 | 2297 | 3676 | 8976 |
| PM10  | 13   | 40   | 53   | 81   | 163  |
| PM2.5 | 8    | 10   | 17   | 34   | 98   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 4     | 18         | 5     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# **Construction Localized Significance Thresholds: Residential - Demolition, Demolition Debris Haul, & Site Preparation**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 4.50  | 815                               | 2675                            | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment Used | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|--------|----------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625 | 5              | 8           | 2.5   |
|                                   |                             | Graders   | 0.5            | 0.0625 |                |             | 0     |
|                                   |                             | Dozers    | 0.5            | 0.0625 | 4              | 8           | 2     |
|                                   |                             | Scrapers  | 1              | 0.125  |                |             | 0     |
|                                   |                             |           |                |        |                | Acres       | 4.50  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 4     | 175  | 169  | 181  | 204  | 264  |
|       | 5     | 197  | 190  | 202  | 223  | 278  |
|       |       | 186  | 180  | 192  | 213  | 271  |
| CO    | 4     | 1461 | 1606 | 2139 | 3464 | 8679 |
|       | 5     | 1711 | 1864 | 2455 | 3888 | 9272 |
|       |       | 1586 | 1735 | 2297 | 3676 | 8976 |
| PM10  | 4     | 12   | 36   | 50   | 77   | 159  |
|       | 5     | 14   | 44   | 57   | 85   | 167  |
|       |       | 13   | 40   | 53   | 81   | 163  |
| PM2.5 | 4     | 8    | 10   | 16   | 32   | 95   |
|       | 5     | 9    | 11   | 18   | 35   | 101  |
|       |       | 8    | 10   | 17   | 34   | 98   |

North Coastal Orange County

**4.50 Acres**

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
|       | 25   | 50   | 100  | 200  | 500  |
| NOx   | 186  | 180  | 192  | 213  | 271  |
| CO    | 1586 | 1735 | 2297 | 3676 | 8976 |
| PM10  | 13   | 40   | 53   | 81   | 163  |
| PM2.5 | 8    | 10   | 17   | 34   | 98   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 4     | 18         | 5     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# Construction Localized Significance Thresholds: Non-Residential - Rough Grading & Haul

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|
| 25                                |                             | Tractors  | 0.5            | 0.0625         |             | 0     |
| NOx                               | 142                         | Graders   | 0.5            | 0.0625         | 1           | 0.5   |
| CO                                | 1,087                       | Dozers    | 0.5            | 0.0625         | 2           | 1     |
|                                   |                             | Scrapers  | 1              | 0.125          | 1           | 1     |
|                                   |                             |           |                |                | Acres       | 2.50  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

2.50 Acres

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
|       | 25   | 50   | 100  | 200  | 500  |
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No. 18               | 2     | SRA No. 18 | 3     |
| Distance Increment Below | 25    |            |       |
| Distance Increment Above | 25    |            |       |

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

# Construction Localized Significance Thresholds: Residential - Rough Grading & Haul

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 815                               | 2675                            | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625         |             | 0     |
|                                   |                             | Graders   | 0.5            | 0.0625         | 1           | 0.5   |
|                                   |                             | Dozers    | 0.5            | 0.0625         | 2           | 1     |
|                                   |                             | Scrapers  | 1              | 0.125          | 1           | 1     |
| PM10                              | 234.03                      |           |                |                | 8           |       |
| PM2.5                             | 147.49                      |           |                |                | 8           |       |
|                                   |                             |           |                |                | Acres       | 2.50  |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

2.50 Acres

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No.                  |       | SRA No.    |       |
| 18                       | 2     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# Construction Localized Significance Thresholds: Non-Residential - Fine Grading

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 0.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625         |             | 0     |
| NOx                               | 92                          | Graders   | 0.5            | 0.0625         | 1           | 0.5   |
| CO                                | 647                         | Dozers    | 0.5            | 0.0625         |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125          |             | 0     |
|                                   |                             |           |                |                | Acres       | 0.50  |

|                             |       |     |      |      |      |      |
|-----------------------------|-------|-----|------|------|------|------|
|                             | Acres | 25  | 50   | 100  | 200  | 500  |
| NOx                         | 1     | 92  | 93   | 108  | 140  | 219  |
|                             | 1     | 92  | 93   | 108  | 140  | 219  |
|                             |       | 92  | 93   | 108  | 140  | 219  |
| CO                          | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|                             | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|                             |       | 647 | 738  | 1090 | 2096 | 6841 |
| PM10                        | 1     | 4   | 13   | 27   | 54   | 135  |
|                             | 1     | 4   | 13   | 27   | 54   | 135  |
|                             |       | 4   | 13   | 27   | 54   | 135  |
| PM2.5                       | 1     | 3   | 5    | 9    | 22   | 76   |
|                             | 1     | 3   | 5    | 9    | 22   | 76   |
|                             |       | 3   | 5    | 9    | 22   | 76   |
| North Coastal Orange County |       |     |      |      |      |      |
| 0.50 Acres                  |       |     |      |      |      |      |
|                             | 25    | 50  | 100  | 200  | 500  |      |
| NOx                         | 92    | 93  | 108  | 140  | 219  |      |
| CO                          | 647   | 738 | 1090 | 2096 | 6841 |      |
| PM10                        | 4     | 13  | 27   | 54   | 135  |      |
| PM2.5                       | 3     | 5   | 9    | 22   | 76   |      |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 1     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

## Construction Localized Significance Thresholds: Residential - Fine Grading

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 0.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625         |             | 0     |
|                                   |                             | Graders   | 0.5            | 0.0625         | 1           | 0.5   |
|                                   |                             | Dozers    | 0.5            | 0.0625         |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125          |             | 0     |
| PM10                              | 220.14                      |           |                |                |             |       |
| PM2.5                             | 132.76                      |           |                |                |             |       |
|                                   |                             |           |                |                | Acres       | 0.50  |

|       |       |     |     |      |      |      |
|-------|-------|-----|-----|------|------|------|
|       | Acres | 25  | 50  | 100  | 200  | 500  |
| NOx   | 1     | 92  | 93  | 108  | 140  | 219  |
|       | 1     | 92  | 93  | 108  | 140  | 219  |
|       |       | 92  | 93  | 108  | 140  | 219  |
| CO    | 1     | 647 | 738 | 1090 | 2096 | 6841 |
|       | 1     | 647 | 738 | 1090 | 2096 | 6841 |
|       |       | 647 | 738 | 1090 | 2096 | 6841 |
| PM10  | 1     | 4   | 13  | 27   | 54   | 135  |
|       | 1     | 4   | 13  | 27   | 54   | 135  |
|       |       | 4   | 13  | 27   | 54   | 135  |
| PM2.5 | 1     | 3   | 5   | 9    | 22   | 76   |
|       | 1     | 3   | 5   | 9    | 22   | 76   |
|       |       | 3   | 5   | 9    | 22   | 76   |

North Coastal Orange County

0.50 Acres

|       |     |     |      |      |      |
|-------|-----|-----|------|------|------|
|       | 25  | 50  | 100  | 200  | 500  |
| NOx   | 92  | 93  | 108  | 140  | 219  |
| CO    | 647 | 738 | 1090 | 2096 | 6841 |
| PM10  | 4   | 13  | 27   | 54   | 135  |
| PM2.5 | 3   | 5   | 9    | 22   | 76   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 1     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# Construction Localized Significance Thresholds: Non-Residential - Fine Grading & Parking Structure

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours | Acres |     |      |
|-------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|-----|------|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625         | 1           | 8     | 0.5 |      |
|                   | NOx                         | 92        | Graders        | 0.5            | 0.0625      | 1     | 8   | 0.5  |
|                   | CO                          | 647       | Dozers         | 0.5            | 0.0625      |       |     | 0    |
|                   |                             | Scrapers  | 1              | 0.125          |             |       |     | 0    |
|                   |                             |           |                |                |             | Acres |     | 1.00 |

|                             |       |     |      |      |      |      |
|-----------------------------|-------|-----|------|------|------|------|
|                             | Acres | 25  | 50   | 100  | 200  | 500  |
| NOx                         | 1     | 92  | 93   | 108  | 140  | 219  |
|                             | 1     | 92  | 93   | 108  | 140  | 219  |
|                             |       | 92  | 93   | 108  | 140  | 219  |
| CO                          | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|                             | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|                             |       | 647 | 738  | 1090 | 2096 | 6841 |
| PM10                        | 1     | 4   | 13   | 27   | 54   | 135  |
|                             | 1     | 4   | 13   | 27   | 54   | 135  |
|                             |       | 4   | 13   | 27   | 54   | 135  |
| PM2.5                       | 1     | 3   | 5    | 9    | 22   | 76   |
|                             | 1     | 3   | 5    | 9    | 22   | 76   |
|                             |       | 3   | 5    | 9    | 22   | 76   |
| North Coastal Orange County |       |     |      |      |      |      |
| 1.00 Acres                  |       |     |      |      |      |      |
|                             | 25    | 50  | 100  | 200  | 500  |      |
| NOx                         | 92    | 93  | 108  | 140  | 219  |      |
| CO                          | 647   | 738 | 1090 | 2096 | 6841 |      |
| PM10                        | 4     | 13  | 27   | 54   | 135  |      |
| PM2.5                       | 3     | 5   | 9    | 22   | 76   |      |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 1     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# Construction Localized Significance Thresholds: Residential - Fine Grading & Parking Structure

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.00  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|----------------|-------------|-------|------|
| Distance (meters) | 815                         | Tractors  | 0.5            | 0.0625         | 1           | 8     | 0.5  |
|                   |                             | Graders   | 0.5            | 0.0625         | 1           | 8     | 0.5  |
|                   |                             | Dozers    | 0.5            | 0.0625         |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125          |             |       | 0    |
| PM10              | 220.14                      |           |                |                |             |       |      |
| PM2.5             | 132.76                      |           |                |                |             |       |      |
|                   |                             |           |                |                | Acres       |       | 1.00 |

|       | Acres | 25  | 50  | 100  | 200  | 500  |
|-------|-------|-----|-----|------|------|------|
| NOx   | 1     | 92  | 93  | 108  | 140  | 219  |
|       | 1     | 92  | 93  | 108  | 140  | 219  |
|       |       | 92  | 93  | 108  | 140  | 219  |
| CO    | 1     | 647 | 738 | 1090 | 2096 | 6841 |
|       | 1     | 647 | 738 | 1090 | 2096 | 6841 |
|       |       | 647 | 738 | 1090 | 2096 | 6841 |
| PM10  | 1     | 4   | 13  | 27   | 54   | 135  |
|       | 1     | 4   | 13  | 27   | 54   | 135  |
|       |       | 4   | 13  | 27   | 54   | 135  |
| PM2.5 | 1     | 3   | 5   | 9    | 22   | 76   |
|       | 1     | 3   | 5   | 9    | 22   | 76   |
|       |       | 3   | 5   | 9    | 22   | 76   |

North Coastal Orange County

|       | 1.00 Acres | 25  | 50   | 100  | 200  | 500 |
|-------|------------|-----|------|------|------|-----|
| NOx   | 92         | 93  | 108  | 140  | 219  |     |
| CO    | 647        | 738 | 1090 | 2096 | 6841 |     |
| PM10  | 4          | 13  | 27   | 54   | 135  |     |
| PM2.5 | 3          | 5   | 9    | 22   | 76   |     |

| Acres Below              | Acres | Acres Above | Acres |
|--------------------------|-------|-------------|-------|
| SRA No.                  |       | SRA No.     |       |
| 18                       | 1     | 18          | 1     |
| Distance Increment Below |       |             |       |
| 500                      |       |             |       |
| Distance Increment Above |       |             |       |
| 500                      |       |             |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Fine Grading, Parking Structure, & Wet Utilities**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |     |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|-----|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625      | 4           | 8     | 2    |     |
|                   | NOx                         | 142       | Graders        | 0.5         | 0.0625      |       | 0    |     |
|                   | CO                          | 1,087     | Dozers         | 0.5         | 0.0625      | 1     | 8    | 0.5 |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |     |
|                   |                             |           |                |             |             | Acres | 2.50 |     |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

**2.50 Acres**

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 2     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# Construction Localized Significance Thresholds: Residential - Fine Grading, Parking Structure, & Wet

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment \ Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|--------|-------------------------|-------|------|
| Distance (meters) | 815                         | Tractors  | 0.5            | 0.0625 | 4                       | 8     | 2    |
|                   |                             | Graders   | 0.5            | 0.0625 |                         |       | 0    |
|                   |                             | Dozers    | 0.5            | 0.0625 | 1                       | 8     | 0.5  |
|                   |                             | Scrapers  | 1              | 0.125  |                         |       | 0    |
|                   |                             |           |                |        |                         | Acres | 2.50 |
|                   | PM10                        | 234.03    |                |        |                         |       |      |
|                   | PM2.5                       | 147.49    |                |        |                         |       |      |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

2.50 Acres

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below                   | Acres | Acre Above | Acres |
|------------------------------|-------|------------|-------|
| SRA No. 18                   | 2     | SRA No. 18 | 3     |
| Distance Increment Below 500 |       |            |       |
| Distance Increment Above 500 |       |            |       |

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

# Construction Localized Significance Thresholds: Non-Residential - Parking Structure & Wet Utilities

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625      | 4           | 8     |
| NOx                               | 131                         | Graders   | 0.5            | 0.0625      |             | 0     |
| CO                                | 962                         | Dozers    | 0.5            | 0.0625      |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125       |             | 0     |
|                                   |                             |           |                |             | Acres       | 2.00  |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 2     | 131 | 128  | 139  | 165  | 235  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 131 | 128  | 139  | 165  | 235  |
| CO    | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10  | 2     | 7   | 21   | 35   | 62   | 144  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 7   | 21   | 35   | 62   | 144  |
| PM2.5 | 2     | 5   | 7    | 12   | 26   | 83   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 5   | 7    | 12   | 26   | 83   |

North Coastal Orange County

2.00 Acres

|       | 25  | 50   | 100  | 200  | 500  |
|-------|-----|------|------|------|------|
| NOx   | 131 | 128  | 139  | 165  | 235  |
| CO    | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10  | 7   | 21   | 35   | 62   | 144  |
| PM2.5 | 5   | 7    | 12   | 26   | 83   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No. 18               | 2     | SRA No. 18 | 2     |
| Distance Increment Below | 25    |            |       |
| Distance Increment Above | 25    |            |       |

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

## Construction Localized Significance Thresholds: Residential - Parking Structure & Wet Utilities

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.00  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 815                         | Tractors  | 0.5            | 0.0625      | 4           | 8     | 2    |
|                   |                             | Graders   | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Dozers    | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
|                   |                             |           |                |             |             | Acres | 2.00 |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 2     | 131 | 128  | 139  | 165  | 235  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 131 | 128  | 139  | 165  | 235  |
| CO    | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10  | 2     | 7   | 21   | 35   | 62   | 144  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 7   | 21   | 35   | 62   | 144  |
| PM2.5 | 2     | 5   | 7    | 12   | 26   | 83   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 5   | 7    | 12   | 26   | 83   |

North Coastal Orange County

2.00 Acres

|       | 25  | 50   | 100  | 200  | 500  |
|-------|-----|------|------|------|------|
| NOx   | 131 | 128  | 139  | 165  | 235  |
| CO    | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10  | 7   | 21   | 35   | 62   | 144  |
| PM2.5 | 5   | 7    | 12   | 26   | 83   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No.                  |       | SRA No.    |       |
| 18                       | 2     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

## Construction Localized Significance Thresholds: Non-Residential - Wet Utilities

| SRA No. | Acres | Source Receptor<br>Distance (meters) | Source<br>Receptor<br>Distance (Feet) | Construction /<br>Project Site<br>Size (Acres) |
|---------|-------|--------------------------------------|---------------------------------------|------------------------------------------------|
| 18      | 1.50  | 25                                   | 82                                    | 5.69                                           |

| Source Receptor<br>Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |
|--------------------------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|
|                                      | 25                          | Tractors  | 0.5            | 0.0625      | 3           | 8     |
| NOx                                  | 112                         | Graders   | 0.5            | 0.0625      |             | 0     |
| CO                                   | 804                         | Dozers    | 0.5            | 0.0625      |             | 0     |
|                                      |                             | Scrapers  | 1              | 0.125       |             | 0     |
|                                      |                             |           |                |             | Acres       | 1.50  |

|                             | Acres      | 25  | 50   | 100  | 200  | 500  |
|-----------------------------|------------|-----|------|------|------|------|
| NOx                         | 1          | 92  | 93   | 108  | 140  | 219  |
|                             | 2          | 131 | 128  | 139  | 165  | 235  |
|                             |            | 112 | 111  | 124  | 153  | 227  |
| CO                          | 1          | 647 | 738  | 1090 | 2096 | 6841 |
|                             | 2          | 962 | 1089 | 1506 | 2615 | 7493 |
|                             |            | 805 | 914  | 1298 | 2356 | 7167 |
| PM10                        | 1          | 4   | 13   | 27   | 54   | 135  |
|                             | 2          | 7   | 21   | 35   | 62   | 144  |
|                             |            | 6   | 17   | 31   | 58   | 140  |
| PM2.5                       | 1          | 3   | 5    | 9    | 22   | 76   |
|                             | 2          | 5   | 7    | 12   | 26   | 83   |
|                             |            | 4   | 6    | 11   | 24   | 80   |
| North Coastal Orange County |            |     |      |      |      |      |
|                             | 1.50 Acres |     |      |      |      |      |
|                             | 25         | 50  | 100  | 200  | 500  |      |
| NOx                         | 112        | 111 | 124  | 153  | 227  |      |
| CO                          | 805        | 914 | 1298 | 2356 | 7167 |      |
| PM10                        | 6          | 17  | 31   | 58   | 140  |      |
| PM2.5                       | 4          | 6   | 11   | 24   | 80   |      |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

## Construction Localized Significance Thresholds: Residential - Wet Utilities

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625      | 3           | 8     |
|                                   |                             | Graders   | 0.5            | 0.0625      |             | 0     |
|                                   |                             | Dozers    | 0.5            | 0.0625      |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125       |             | 0     |
| PM10                              | 225.17                      |           |                |             |             |       |
| PM2.5                             | 137.84                      |           |                |             |             |       |
|                                   |                             |           |                |             | Acres       | 1.50  |

|                             | Acres      | 25  | 50   | 100  | 200  | 500  |
|-----------------------------|------------|-----|------|------|------|------|
| NOx                         | 1          | 92  | 93   | 108  | 140  | 219  |
|                             | 2          | 131 | 128  | 139  | 165  | 235  |
|                             |            | 112 | 111  | 124  | 153  | 227  |
| CO                          | 1          | 647 | 738  | 1090 | 2096 | 6841 |
|                             | 2          | 962 | 1089 | 1506 | 2615 | 7493 |
|                             |            | 805 | 914  | 1298 | 2356 | 7167 |
| PM10                        | 1          | 4   | 13   | 27   | 54   | 135  |
|                             | 2          | 7   | 21   | 35   | 62   | 144  |
|                             |            | 6   | 17   | 31   | 58   | 140  |
| PM2.5                       | 1          | 3   | 5    | 9    | 22   | 76   |
|                             | 2          | 5   | 7    | 12   | 26   | 83   |
|                             |            | 4   | 6    | 11   | 24   | 80   |
| North Coastal Orange County |            |     |      |      |      |      |
|                             | 1.50 Acres |     |      |      |      |      |
|                             | 25         | 50  | 100  | 200  | 500  |      |
| NOx                         | 112        | 111 | 124  | 153  | 227  |      |
| CO                          | 805        | 914 | 1298 | 2356 | 7167 |      |
| PM10                        | 6          | 17  | 31   | 58   | 140  |      |
| PM2.5                       | 4          | 6   | 11   | 24   | 80   |      |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Wet Utilities, Multi-Use Structure, & Structural Concrete**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625      | 5           | 8     | 2.5  |
| NOx               | 142                         | Graders   | 0.5            | 0.0625      |             |       | 0    |
| CO                | 1,087                       | Dozers    | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
|                   |                             |           |                |             | Acres       |       | 2.50 |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

**2.50 Acres**

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 2     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# **Construction Localized Significance Thresholds: Residential - Wet Utilities, Multi-Use Structure, & Structural Concrete**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 815                         | Tractors  | 0.5            | 0.0625      | 5           | 8     | 2.5  |
|                   |                             | Graders   | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Dozers    | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
| PM10              | 234.03                      |           |                |             |             |       |      |
| PM2.5             | 147.49                      |           |                |             |             |       |      |
|                   |                             |           |                |             | Acres       |       | 2.50 |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 2     | 131  | 128  | 139  | 165  | 235  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 142  | 138  | 150  | 175  | 242  |
| CO    | 2     | 962  | 1089 | 1506 | 2615 | 7493 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 2     | 7    | 21   | 35   | 62   | 144  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 2     | 5    | 7    | 12   | 26   | 83   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 13   | 28   | 86   |

North Coastal Orange County

**2.50 Acres**

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 142  | 138  | 150  | 175  | 242  |
| CO    | 1087 | 1218 | 1664 | 2827 | 7790 |
| PM10  | 8    | 25   | 39   | 66   | 148  |
| PM2.5 | 6    | 8    | 13   | 28   | 86   |

| Acre Below                   | Acres | Acre Above | Acres |
|------------------------------|-------|------------|-------|
| SRA No. 18                   | 2     | SRA No. 18 | 3     |
| Distance Increment Below 500 |       |            |       |
| Distance Increment Above 500 |       |            |       |

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

**Construction Localized Significance Thresholds: Non-Residential - Wet Utilities, Multi-Use Structure, Structural Concrete, & Dry Utilities**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625      | 7           | 8     | 3.5  |
|                   | NOx                         | 164       | Graders        | 0.5         | 0.0625      |       | 0    |
|                   | CO                          | 1,336     | Dozers         | 0.5         | 0.0625      |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
|                   |                             |           |                |             |             | Acres | 3.50 |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 4     | 175  | 169  | 181  | 204  | 264  |
|       |       | 164  | 159  | 171  | 194  | 257  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 4     | 1461 | 1606 | 2139 | 3464 | 8679 |
|       |       | 1337 | 1477 | 1981 | 3252 | 8383 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 4     | 12   | 36   | 50   | 77   | 159  |
|       |       | 11   | 33   | 46   | 74   | 156  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 4     | 8    | 10   | 16   | 32   | 95   |
|       |       | 7    | 9    | 15   | 31   | 92   |

North Coastal Orange County

**3.50 Acres**

|       | 25   | 50   | 100  | 200  | 500  |
|-------|------|------|------|------|------|
| NOx   | 164  | 159  | 171  | 194  | 257  |
| CO    | 1337 | 1477 | 1981 | 3252 | 8383 |
| PM10  | 11   | 33   | 46   | 74   | 156  |
| PM2.5 | 7    | 9    | 15   | 31   | 92   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 3     | 18         | 4     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.50  | 815                               | 2,675                           | 5.69                                     |

|                             |      | Acres | 25   | 50   | 100  | 200  | 500  |
|-----------------------------|------|-------|------|------|------|------|------|
| NOx                         | 3    |       | 153  | 149  | 160  | 184  | 249  |
|                             | 4    |       | 175  | 169  | 181  | 204  | 264  |
|                             |      |       | 164  | 159  | 171  | 194  | 257  |
| CO                          | 3    |       | 1212 | 1347 | 1822 | 3039 | 8086 |
|                             | 4    |       | 1461 | 1606 | 2139 | 3464 | 8679 |
|                             |      |       | 1337 | 1477 | 1981 | 3252 | 8383 |
| PM10                        | 3    |       | 9    | 29   | 42   | 70   | 152  |
|                             | 4    |       | 12   | 36   | 50   | 77   | 159  |
|                             |      |       | 11   | 33   | 46   | 74   | 156  |
| PM2.5                       | 3    |       | 6    | 8    | 14   | 29   | 89   |
|                             | 4    |       | 8    | 10   | 16   | 32   | 95   |
|                             |      |       | 7    | 9    | 15   | 31   | 92   |
| North Coastal Orange County |      |       |      |      |      |      |      |
| 3.50 Acres                  |      |       |      |      |      |      |      |
|                             | 25   |       | 50   | 100  | 200  | 500  |      |
| NOx                         | 164  |       | 159  | 171  | 194  | 257  |      |
| CO                          | 1337 |       | 1477 | 1981 | 3252 | 8383 |      |
| PM10                        | 11   |       | 33   | 46   | 74   | 156  |      |
| PM2.5                       | 7    |       | 9    | 15   | 31   | 92   |      |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structure, Structural Concrete, & Dry Utilities**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625      | 4           | 8     |
| NOx                               | 131                         | Graders   | 0.5            | 0.0625      |             | 0     |
| CO                                | 962                         | Dozers    | 0.5            | 0.0625      |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125       |             | 0     |
|                                   |                             |           |                |             | Acres       | 2.00  |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 2     | 131 | 128  | 139  | 165  | 235  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 131 | 128  | 139  | 165  | 235  |
| CO    | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10  | 2     | 7   | 21   | 35   | 62   | 144  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 7   | 21   | 35   | 62   | 144  |
| PM2.5 | 2     | 5   | 7    | 12   | 26   | 83   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 5   | 7    | 12   | 26   | 83   |

North Coastal Orange County

| 2.00 Acres | 25  | 50   | 100  | 200  | 500  |
|------------|-----|------|------|------|------|
| NOx        | 131 | 128  | 139  | 165  | 235  |
| CO         | 962 | 1089 | 1506 | 2615 | 7493 |
| PM10       | 7   | 21   | 35   | 62   | 144  |
| PM2.5      | 5   | 7    | 12   | 26   | 83   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No. 18               | 2     | SRA No. 18 | 2     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 2.00  | 815                               | 2,675                           | 5.69                                     |

|                             |     | Acres | 25   | 50   | 100  | 200  | 500 |
|-----------------------------|-----|-------|------|------|------|------|-----|
| NOx                         | 2   | 131   | 128  | 139  | 165  | 235  |     |
|                             | 2   | 131   | 128  | 139  | 165  | 235  |     |
|                             |     | 131   | 128  | 139  | 165  | 235  |     |
| CO                          | 2   | 962   | 1089 | 1506 | 2615 | 7493 |     |
|                             | 2   | 962   | 1089 | 1506 | 2615 | 7493 |     |
|                             |     | 962   | 1089 | 1506 | 2615 | 7493 |     |
| PM10                        | 2   | 7     | 21   | 35   | 62   | 144  |     |
|                             | 2   | 7     | 21   | 35   | 62   | 144  |     |
|                             |     | 7     | 21   | 35   | 62   | 144  |     |
| PM2.5                       | 2   | 5     | 7    | 12   | 26   | 83   |     |
|                             | 2   | 5     | 7    | 12   | 26   | 83   |     |
|                             |     | 5     | 7    | 12   | 26   | 83   |     |
| North Coastal Orange County |     |       |      |      |      |      |     |
| 2.00 Acres                  |     |       |      |      |      |      |     |
|                             | 25  | 50    | 100  | 200  | 500  |      |     |
| NOx                         | 131 | 128   | 139  | 165  | 235  |      |     |
| CO                          | 962 | 1089  | 1506 | 2615 | 7493 |      |     |
| PM10                        | 7   | 21    | 35   | 62   | 144  |      |     |
| PM2.5                       | 5   | 7     | 12   | 26   | 83   |      |     |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structure, Structural Concrete, & Aggregate Base**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment | U Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|--------|-----------|---------------|-------|
|                                   | 25                          | Tractors  | 0.5            | 0.0625 | 3         | 8             | 1.5   |
| NOx                               | 153                         | Graders   | 0.5            | 0.0625 | 1         | 8             | 0.5   |
| CO                                | 1,212                       | Dozers    | 0.5            | 0.0625 |           |               | 0     |
|                                   |                             | Scrapers  | 1              | 0.125  | 1         | 8             | 1     |
|                                   |                             |           |                |        |           | <b>Acres</b>  | 3.00  |

|       | Acres | 25   | 50   | 100  | 200  | 500  |
|-------|-------|------|------|------|------|------|
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 153  | 149  | 160  | 184  | 249  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 14   | 29   | 89   |

North Coastal Orange County

|       | 3.00 Acres | 25   | 50   | 100  | 200  | 500 |
|-------|------------|------|------|------|------|-----|
| NOx   | 153        | 149  | 160  | 184  | 249  |     |
| CO    | 1212       | 1347 | 1822 | 3039 | 8086 |     |
| PM10  | 9          | 29   | 42   | 70   | 152  |     |
| PM2.5 | 6          | 8    | 14   | 29   | 89   |     |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 3     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

**Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structure, Structural Concrete, & Aggregate Base**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment | U Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|--------|-----------|---------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625 | 3         | 8             | 1.5   |
|                                   |                             | Graders   | 0.5            | 0.0625 | 1         | 8             | 0.5   |
|                                   |                             | Dozers    | 0.5            | 0.0625 |           |               | 0     |
|                                   |                             | Scrapers  | 1              | 0.125  | 1         | 8             | 1     |
|                                   |                             |           |                |        |           | <b>Acres</b>  | 3.00  |

|                             | Acres             | 25        | 50         | 100        | 200        | 500  |
|-----------------------------|-------------------|-----------|------------|------------|------------|------|
| NOx                         | 3                 | 153       | 149        | 160        | 184        | 249  |
|                             | 3                 | 153       | 149        | 160        | 184        | 249  |
|                             |                   | 153       | 149        | 160        | 184        | 249  |
| CO                          | 3                 | 1212      | 1347       | 1822       | 3039       | 8086 |
|                             | 3                 | 1212      | 1347       | 1822       | 3039       | 8086 |
|                             |                   | 1212      | 1347       | 1822       | 3039       | 8086 |
| PM10                        | 3                 | 9         | 29         | 42         | 70         | 152  |
|                             | 3                 | 9         | 29         | 42         | 70         | 152  |
|                             |                   | 9         | 29         | 42         | 70         | 152  |
| PM2.5                       | 3                 | 6         | 8          | 14         | 29         | 89   |
|                             | 3                 | 6         | 8          | 14         | 29         | 89   |
|                             |                   | 6         | 8          | 14         | 29         | 89   |
| North Coastal Orange County |                   |           |            |            |            |      |
|                             | <b>3.00 Acres</b> |           |            |            |            |      |
|                             | <b>25</b>         | <b>50</b> | <b>100</b> | <b>200</b> | <b>500</b> |      |
| NOx                         | 153               | 149       | 160        | 184        | 249        |      |
| CO                          | 1212              | 1347      | 1822       | 3039       | 8086       |      |
| PM10                        | 9                 | 29        | 42         | 70         | 152        |      |
| PM2.5                       | 6                 | 8         | 14         | 29         | 89         |      |

| Acre Below                      |       | Acre Above |       |
|---------------------------------|-------|------------|-------|
| SRA No.                         | Acres | SRA No.    | Acres |
| 18                              | 3     | 18         | 3     |
| <b>Distance Increment Below</b> |       |            |       |
| 500                             |       |            |       |
| <b>Distance Increment Above</b> |       |            |       |
| 500                             |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structural Concrete, & Asphalt Paving**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day |        | Equipment UDaily hours |   | Acres |
|-------------------|-----------------------------|-----------|----------------|--------|------------------------|---|-------|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625 | 2                      | 8 | 1     |
|                   | NOx 112                     | Graders   | 0.5            | 0.0625 | 1                      | 8 | 0.5   |
|                   | CO 804                      | Dozers    | 0.5            | 0.0625 |                        |   | 0     |
|                   |                             | Scrapers  | 1              | 0.125  |                        |   | 0     |
|                   |                             |           |                |        | Acres                  |   | 1.50  |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 1     | 92  | 93   | 108  | 140  | 219  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 112 | 111  | 124  | 153  | 227  |
| CO    | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 805 | 914  | 1298 | 2356 | 7167 |
| PM10  | 1     | 4   | 13   | 27   | 54   | 135  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 6   | 17   | 31   | 58   | 140  |
| PM2.5 | 1     | 3   | 5    | 9    | 22   | 76   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 4   | 6    | 11   | 24   | 80   |

North Coastal Orange County

1.50 Acres

|       | 25  | 50  | 100  | 200  | 500  |
|-------|-----|-----|------|------|------|
| NOx   | 112 | 111 | 124  | 153  | 227  |
| CO    | 805 | 914 | 1298 | 2356 | 7167 |
| PM10  | 6   | 17  | 31   | 58   | 140  |
| PM2.5 | 4   | 6   | 11   | 24   | 80   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structural Concrete, & Asphalt Paving**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625      | 2 8         | 1     |
|                                   |                             | Graders   | 0.5            | 0.0625      | 1 8         | 0.5   |
|                                   |                             | Dozers    | 0.5            | 0.0625      |             | 0     |
|                                   |                             | Scrapers  | 1              | 0.125       |             | 0     |
| PM10                              | 225.17                      |           |                |             |             |       |
| PM2.5                             | 137.84                      |           |                |             |             |       |
|                                   |                             |           |                |             | Acres       | 1.50  |

|                             | Acres      | 25  | 50   | 100  | 200  | 500  |
|-----------------------------|------------|-----|------|------|------|------|
| NOx                         | 1          | 92  | 93   | 108  | 140  | 219  |
|                             | 2          | 131 | 128  | 139  | 165  | 235  |
|                             |            | 112 | 111  | 124  | 153  | 227  |
| CO                          | 1          | 647 | 738  | 1090 | 2096 | 6841 |
|                             | 2          | 962 | 1089 | 1506 | 2615 | 7493 |
|                             |            | 805 | 914  | 1298 | 2356 | 7167 |
| PM10                        | 1          | 4   | 13   | 27   | 54   | 135  |
|                             | 2          | 7   | 21   | 35   | 62   | 144  |
|                             |            | 6   | 17   | 31   | 58   | 140  |
| PM2.5                       | 1          | 3   | 5    | 9    | 22   | 76   |
|                             | 2          | 5   | 7    | 12   | 26   | 83   |
|                             |            | 4   | 6    | 11   | 24   | 80   |
| North Coastal Orange County |            |     |      |      |      |      |
|                             | 1.50 Acres |     |      |      |      |      |
|                             | 25         | 50  | 100  | 200  | 500  |      |
| NOx                         | 112        | 111 | 124  | 153  | 227  |      |
| CO                          | 805        | 914 | 1298 | 2356 | 7167 |      |
| PM10                        | 6          | 17  | 31   | 58   | 140  |      |
| PM2.5                       | 4          | 6   | 11   | 24   | 80   |      |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structural Concrete, & Concrete Flatwork**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.50  | 25                                | 82                              | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 25                          | Tractors  | 0.5            | 0.0625      | 3           | 8     | 1.5  |
| NOx               | 112                         | Graders   | 0.5            | 0.0625      |             |       | 0    |
| CO                | 804                         | Dozers    | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
|                   |                             |           |                |             | Acres       |       | 1.50 |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 1     | 92  | 93   | 108  | 140  | 219  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 112 | 111  | 124  | 153  | 227  |
| CO    | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 805 | 914  | 1298 | 2356 | 7167 |
| PM10  | 1     | 4   | 13   | 27   | 54   | 135  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 6   | 17   | 31   | 58   | 140  |
| PM2.5 | 1     | 3   | 5    | 9    | 22   | 76   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 4   | 6    | 11   | 24   | 80   |

North Coastal Orange County

1.50 Acres

|       | 25  | 50  | 100  | 200  | 500  |
|-------|-----|-----|------|------|------|
| NOx   | 112 | 111 | 124  | 153  | 227  |
| CO    | 805 | 914 | 1298 | 2356 | 7167 |
| PM10  | 6   | 17  | 31   | 58   | 140  |
| PM2.5 | 4   | 6   | 11   | 24   | 80   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 1     | 18         | 2     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Multi-Use Structure, Structural Concrete, & Concrete Flatwork**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 1.50  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor   | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment U | Daily hours | Acres |      |
|-------------------|-----------------------------|-----------|----------------|-------------|-------------|-------|------|
| Distance (meters) | 815                         | Tractors  | 0.5            | 0.0625      | 3           | 8     | 1.5  |
|                   |                             | Graders   | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Dozers    | 0.5            | 0.0625      |             |       | 0    |
|                   |                             | Scrapers  | 1              | 0.125       |             |       | 0    |
| PM10              | 225.17                      |           |                |             |             |       |      |
| PM2.5             | 137.84                      |           |                |             |             |       |      |
|                   |                             |           |                |             | Acres       |       | 1.50 |

|       | Acres | 25  | 50   | 100  | 200  | 500  |
|-------|-------|-----|------|------|------|------|
| NOx   | 1     | 92  | 93   | 108  | 140  | 219  |
|       | 2     | 131 | 128  | 139  | 165  | 235  |
|       |       | 112 | 111  | 124  | 153  | 227  |
| CO    | 1     | 647 | 738  | 1090 | 2096 | 6841 |
|       | 2     | 962 | 1089 | 1506 | 2615 | 7493 |
|       |       | 805 | 914  | 1298 | 2356 | 7167 |
| PM10  | 1     | 4   | 13   | 27   | 54   | 135  |
|       | 2     | 7   | 21   | 35   | 62   | 144  |
|       |       | 6   | 17   | 31   | 58   | 140  |
| PM2.5 | 1     | 3   | 5    | 9    | 22   | 76   |
|       | 2     | 5   | 7    | 12   | 26   | 83   |
|       |       | 4   | 6    | 11   | 24   | 80   |

North Coastal Orange County

1.50 Acres

|       | 25  | 50  | 100  | 200  | 500  |
|-------|-----|-----|------|------|------|
| NOx   | 112 | 111 | 124  | 153  | 227  |
| CO    | 805 | 914 | 1298 | 2356 | 7167 |
| PM10  | 6   | 17  | 31   | 58   | 140  |
| PM2.5 | 4   | 6   | 11   | 24   | 80   |

| Acre Below               | Acres | Acre Above | Acres |
|--------------------------|-------|------------|-------|
| SRA No. 18               | 1     | SRA No. 18 | 2     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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

# **Construction Localized Significance Thresholds: Non-Residential - Rough Grading, Rough Grading Haul, & Fine Grading**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 25                                | 82                              | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours  | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|--------------|-------|
| 25                                |                             | Tractors  | 0.5            | 0.0625         |              | 0     |
| NOx                               | 153                         | Graders   | 0.5            | 0.0625         | 2            | 8     |
| CO                                | 1,212                       | Dozers    | 0.5            | 0.0625         | 2            | 8     |
|                                   |                             | Scrapers  | 1              | 0.125          | 1            | 8     |
|                                   |                             |           |                |                | <b>Acres</b> | 3.00  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 153  | 149  | 160  | 184  | 249  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 14   | 29   | 89   |

North Coastal Orange County

**3.00 Acres**

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
|       | 25   | 50   | 100  | 200  | 500  |
| NOx   | 153  | 149  | 160  | 184  | 249  |
| CO    | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 6    | 8    | 14   | 29   | 89   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 3     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 25                       |       |            |       |
| Distance Increment Above |       |            |       |
| 25                       |       |            |       |

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

# **Construction Localized Significance Thresholds: Residential - Rough Grading, Rough Grading Haul, & Fine Grading**

| SRA No. | Acres | Source Receptor Distance (meters) | Source Receptor Distance (Feet) | Construction / Project Site Size (Acres) |
|---------|-------|-----------------------------------|---------------------------------|------------------------------------------|
| 18      | 3.00  | 815                               | 2,675                           | 5.69                                     |

| Source Receptor Distance (meters) | North Coastal Orange County | Equipment | Acres/8-hr Day | Equipment Used | Daily Hours  | Acres |
|-----------------------------------|-----------------------------|-----------|----------------|----------------|--------------|-------|
|                                   | 815                         | Tractors  | 0.5            | 0.0625         |              | 0     |
|                                   |                             | Graders   | 0.5            | 0.0625         | 2            | 1     |
|                                   |                             | Dozers    | 0.5            | 0.0625         | 2            | 1     |
|                                   |                             | Scrapers  | 1              | 0.125          | 1            | 1     |
| PM10                              | 237.86                      |           |                |                | 8            |       |
| PM2.5                             | 152.07                      |           |                |                | 8            |       |
|                                   |                             |           |                |                | <b>Acres</b> | 3.00  |

|       |       |      |      |      |      |      |
|-------|-------|------|------|------|------|------|
|       | Acres | 25   | 50   | 100  | 200  | 500  |
| NOx   | 3     | 153  | 149  | 160  | 184  | 249  |
|       | 3     | 153  | 149  | 160  | 184  | 249  |
|       |       | 153  | 149  | 160  | 184  | 249  |
| CO    | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       | 3     | 1212 | 1347 | 1822 | 3039 | 8086 |
|       |       | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 3     | 9    | 29   | 42   | 70   | 152  |
|       | 3     | 9    | 29   | 42   | 70   | 152  |
|       |       | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 3     | 6    | 8    | 14   | 29   | 89   |
|       | 3     | 6    | 8    | 14   | 29   | 89   |
|       |       | 6    | 8    | 14   | 29   | 89   |

North Coastal Orange County

3.00 Acres

|       |      |      |      |      |      |
|-------|------|------|------|------|------|
|       | 25   | 50   | 100  | 200  | 500  |
| NOx   | 153  | 149  | 160  | 184  | 249  |
| CO    | 1212 | 1347 | 1822 | 3039 | 8086 |
| PM10  | 9    | 29   | 42   | 70   | 152  |
| PM2.5 | 6    | 8    | 14   | 29   | 89   |

| Acre Below               |       | Acre Above |       |
|--------------------------|-------|------------|-------|
| SRA No.                  | Acres | SRA No.    | Acres |
| 18                       | 3     | 18         | 3     |
| Distance Increment Below |       |            |       |
| 500                      |       |            |       |
| Distance Increment Above |       |            |       |
| 500                      |       |            |       |

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