

**APPENDIX A**  
**Air Quality/Greenhouse Gas Data**



## Little Corona Infiltration Project Orange County, Summer

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 1.00 | Acre   | 1.00        | 43,560.00          | 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>          | 2016  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 630.89                     | <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 -

Construction Phase - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defind

Grading - user-defined

Demolition -

Architectural Coating - user-defined

Area Coating - user-defined

Construction Off-road Equipment Mitigation - user-defined

| Table Name              | Column Name                       | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 21,780.00     | 0.00      |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 65,340.00     | 0.00      |
| tblAreaCoating          | Area_Nonresidential_Interior      | 65340         | 0         |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 26        |
| tblConstructionPhase    | NumDays                           | 5.00          | 1.00      |
| tblConstructionPhase    | NumDays                           | 100.00        | 55.00     |
| tblConstructionPhase    | NumDays                           | 10.00         | 5.00      |
| tblConstructionPhase    | NumDays                           | 2.00          | 15.00     |
| tblConstructionPhase    | NumDays                           | 5.00          | 10.00     |
| tblConstructionPhase    | PhaseEndDate                      | 5/2/2016      | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/30/2016     | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 1/30/2016     | 2/1/2016  |
| tblConstructionPhase    | PhaseStartDate                    | 1/9/2016      | 1/11/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/16/2016     | 4/18/2016 |
| tblGrading              | AcresOfGrading                    | 5.63          | 0.75      |
| tblGrading              | AcresOfGrading                    | 0.00          | 0.50      |
| tblGrading              | MaterialExported                  | 0.00          | 214.00    |
| tblOffRoadEquipment     | HorsePower                        | 80.00         | 84.00     |
| tblOffRoadEquipment     | HorsePower                        | 81.00         | 226.00    |
| tblOffRoadEquipment     | HorsePower                        | 253.00        | 89.00     |
| tblOffRoadEquipment     | HorsePower                        | 174.00        | 80.00     |
| tblOffRoadEquipment     | HorsePower                        | 125.00        | 255.00    |
| tblOffRoadEquipment     | LoadFactor                        | 0.50          | 0.74      |
| tblOffRoadEquipment     | LoadFactor                        | 0.73          | 0.29      |
| tblOffRoadEquipment     | LoadFactor                        | 0.30          | 0.20      |
| tblOffRoadEquipment     | LoadFactor                        | 0.41          | 0.38      |

|                           |                            |                     |                          |
|---------------------------|----------------------------|---------------------|--------------------------|
| tblOffRoadEquipment       | LoadFactor                 | 0.42                | 0.40                     |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Generator Sets      | Trenchers                |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Cranes              | Concrete/Industrial Saws |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Forklifts           | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rollers             | Graders                  |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rubber Tired Dozers | Pavers                   |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Trenchers                |
| 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                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblProjectCharacteristics | OperationalYear            | 2014                | 2016                     |
| tblTripsAndVMT            | WorkerTripNumber           | 8.00                | 5.00                     |

## 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   |           |           |     |     |      |

|              |               |                |                |               |               |               |               |               |               |               |               |                   |                   |               |               |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| 2016         | 2.9539        | 32.6258        | 19.7207        | 0.0314        | 4.7702        | 1.6771        | 6.4474        | 2.5417        | 1.5430        | 4.0847        | 0.0000        | 3,216.6238        | 3,216.6238        | 0.8876        | 0.0000        | 3,235.2637        |
| <b>Total</b> | <b>2.9539</b> | <b>32.6258</b> | <b>19.7207</b> | <b>0.0314</b> | <b>4.7702</b> | <b>1.6771</b> | <b>6.4474</b> | <b>2.5417</b> | <b>1.5430</b> | <b>4.0847</b> | <b>0.0000</b> | <b>3,216.6238</b> | <b>3,216.6238</b> | <b>0.8876</b> | <b>0.0000</b> | <b>3,235.2637</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         | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| 2016         | 2.9539        | 32.6258        | 19.7207        | 0.0314        | 0.9572        | 1.6771        | 2.6343        | 0.4790         | 1.5430        | 2.0220        | 0.0000        | 3,216.6238        | 3,216.6238        | 0.8876        | 0.0000        | 3,235.2637        |
| <b>Total</b> | <b>2.9539</b> | <b>32.6258</b> | <b>19.7207</b> | <b>0.0314</b> | <b>0.9572</b> | <b>1.6771</b> | <b>2.6343</b> | <b>0.4790</b>  | <b>1.5430</b> | <b>2.0220</b> | <b>0.0000</b> | <b>3,216.6238</b> | <b>3,216.6238</b> | <b>0.8876</b> | <b>0.0000</b> | <b>3,235.2637</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 | 79.93         | 0.00         | 59.14      | 81.15          | 0.00          | 50.50       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

**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     | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |        | 2.3000e-004 |
| Energy   | 0.0000 | 0.0000 | 0.0000      | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |

|              |               |               |               |                    |                    |                    |                    |                    |                    |                    |  |                |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|----------------|----------------|--------------------|---------------|----------------|
| Mobile       | 4.9800e-003   | 0.0112        | 0.0547        | 1.4000e-004        | 9.6700e-003        | 1.6000e-004        | 9.8200e-003        | 2.5800e-003        | 1.4000e-004        | 2.7200e-003        |  | 11.7449        | 11.7449        | 4.7000e-004        |               | 11.7547        |
| <b>Total</b> | <b>0.9366</b> | <b>0.0112</b> | <b>0.0548</b> | <b>1.4000e-004</b> | <b>9.6700e-003</b> | <b>1.6000e-004</b> | <b>9.8200e-003</b> | <b>2.5800e-003</b> | <b>1.4000e-004</b> | <b>2.7200e-003</b> |  | <b>11.7451</b> | <b>11.7451</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>11.7549</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         | 0.9316        | 0.0000        | 1.0000e-004   | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |          |           | 2.2000e-004    | 2.2000e-004    | 0.0000             |               | 2.3000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |          |           | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Mobile       | 4.9800e-003   | 0.0112        | 0.0547        | 1.4000e-004        | 9.6700e-003        | 1.6000e-004        | 9.8200e-003        | 2.5800e-003        | 1.4000e-004        | 2.7200e-003        |          |           | 11.7449        | 11.7449        | 4.7000e-004        |               | 11.7547        |
| <b>Total</b> | <b>0.9366</b> | <b>0.0112</b> | <b>0.0548</b> | <b>1.4000e-004</b> | <b>9.6700e-003</b> | <b>1.6000e-004</b> | <b>9.8200e-003</b> | <b>2.5800e-003</b> | <b>1.4000e-004</b> | <b>2.7200e-003</b> |          |           | <b>11.7451</b> | <b>11.7451</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>11.7549</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            | 1/1/2016   | 1/7/2016  | 5             | 5        |                   |
| 2            | Site Preparation      | Site Preparation      | 1/8/2016   | 1/8/2016  | 5             | 1        |                   |
| 3            | Grading               | Grading               | 1/11/2016  | 1/29/2016 | 5             | 15       |                   |
| 4            | Building Construction | Building Construction | 2/1/2016   | 4/15/2016 | 5             | 55       |                   |
| 5            | Paving                | Paving                | 4/18/2016  | 4/29/2016 | 5             | 10       |                   |

|   |                       |                       |           |           |   |   |
|---|-----------------------|-----------------------|-----------|-----------|---|---|
| 6 | Architectural Coating | Architectural Coating | 4/19/2016 | 4/19/2016 | 5 | 1 |
|---|-----------------------|-----------------------|-----------|-----------|---|---|

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 0      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 0      | 6.00        | 9           | 0.56        |
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Trenchers                 | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Concrete/Industrial Saws  | 1      | 6.00        | 226         | 0.29        |
| Building Construction | Surfacing Equipment       | 1      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 0      | 8.00        | 174         | 0.41        |
| Paving                | Pavers                    | 0      | 6.00        | 125         | 0.42        |
| Paving                | Graders                   | 1      | 7.00        | 80          | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 8.00        | 255         | 0.40        |
| Grading               | Pavers                    | 1      | 6.00        | 255         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Demolition            | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 6.00        | 174         | 0.41        |
| Paving                | Paving Equipment          | 0      | 8.00        | 130         | 0.36        |
| Site Preparation      | Rubber Tired Dozers       | 0      | 7.00        | 255         | 0.40        |
| Building Construction | Welders                   | 0      | 8.00        | 46          | 0.45        |
| Grading               | Surfacing Equipment       | 1      | 6.00        | 253         | 0.30        |





| Category      | lb/day        |               |               |                    |                    |               |               |                    |               |               | lb/day |                 |                 |               |                 |
|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|--------|-----------------|-----------------|---------------|-----------------|
| Fugitive Dust |               |               |               |                    | 2.3000e-004        | 0.0000        | 2.3000e-004   | 3.0000e-005        | 0.0000        | 3.0000e-005   |        |                 | 0.0000          |               | 0.0000          |
| Off-Road      | 0.6466        | 4.6220        | 3.7752        | 6.2600e-003        |                    | 0.3473        | 0.3473        |                    | 0.3473        | 0.3473        |        | 592.6657        | 592.6657        | 0.0574        | 593.8702        |
| <b>Total</b>  | <b>0.6466</b> | <b>4.6220</b> | <b>3.7752</b> | <b>6.2600e-003</b> | <b>2.3000e-004</b> | <b>0.3473</b> | <b>0.3475</b> | <b>3.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> |        | <b>592.6657</b> | <b>592.6657</b> | <b>0.0574</b> | <b>593.8702</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       | 0.0104        | 0.0135        | 0.1647        | 4.1000e-004        | 0.0335        | 2.3000e-004        | 0.0338        | 8.8900e-003        | 2.2000e-004        | 9.1100e-003        |          | 34.0381        | 34.0381        | 1.6000e-003        |     | 34.0717        |
| <b>Total</b> | <b>0.0104</b> | <b>0.0135</b> | <b>0.1647</b> | <b>4.1000e-004</b> | <b>0.0335</b> | <b>2.3000e-004</b> | <b>0.0338</b> | <b>8.8900e-003</b> | <b>2.2000e-004</b> | <b>9.1100e-003</b> |          | <b>34.0381</b> | <b>34.0381</b> | <b>1.6000e-003</b> |     | <b>34.0717</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 |        |        |        |             | 4.0000e-005   | 0.0000       | 4.0000e-005 | 1.0000e-005    | 0.0000        | 1.0000e-005 |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road      | 0.6466 | 4.6220 | 3.7752 | 6.2600e-003 |               | 0.3473       | 0.3473      |                | 0.3473        | 0.3473      | 0.0000   | 592.6657  | 592.6657  | 0.0574 |     | 593.8702 |

|              |               |               |               |                    |                    |               |               |                    |               |               |               |                 |                 |               |  |                 |
|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| <b>Total</b> | <b>0.6466</b> | <b>4.6220</b> | <b>3.7752</b> | <b>6.2600e-003</b> | <b>4.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> | <b>1.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> | <b>0.0000</b> | <b>592.6657</b> | <b>592.6657</b> | <b>0.0574</b> |  | <b>593.8702</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       | 0.0104        | 0.0135        | 0.1647        | 4.1000e-004        | 0.0260        | 2.3000e-004        | 0.0262        | 7.0300e-003        | 2.2000e-004        | 7.2500e-003        |          | 34.0381        | 34.0381        | 1.6000e-003        |     | 34.0717        |
| <b>Total</b> | <b>0.0104</b> | <b>0.0135</b> | <b>0.1647</b> | <b>4.1000e-004</b> | <b>0.0260</b> | <b>2.3000e-004</b> | <b>0.0262</b> | <b>7.0300e-003</b> | <b>2.2000e-004</b> | <b>7.2500e-003</b> |          | <b>34.0381</b> | <b>34.0381</b> | <b>1.6000e-003</b> |     | <b>34.0717</b> |

**3.3 Site Preparation - 2016**

**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      | 0.0000        | 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>0.5303</b> | <b>0.0000</b> | <b>0.5303</b> | <b>0.0573</b>  | <b>0.0000</b> | <b>0.0573</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       | 0.0000        | 0.0000        | 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 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 |               |               |               |               | 0.0931        | 0.0000        | 0.0931        | 0.0101         | 0.0000        | 0.0101        |               |               | 0.0000        |               |     | 0.0000        |
| 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>0.0931</b> | <b>0.0000</b> | <b>0.0931</b> | <b>0.0101</b>  | <b>0.0000</b> | <b>0.0101</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        | 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       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 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> | <b>0.0000</b> | <b>0.0000</b> |

### 3.4 Grading - 2016

#### 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 |               |                |                |               | 4.5712        | 0.0000        | 4.5712        | 2.4886         | 0.0000        | 2.4886        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.8689        | 32.0625        | 18.5373        | 0.0280        |               | 1.6685        | 1.6685        |                | 1.5350        | 1.5350        |          | 2,912.9924        | 2,912.9924        | 0.8787        |     | 2,931.4443        |
| <b>Total</b>  | <b>2.8689</b> | <b>32.0625</b> | <b>18.5373</b> | <b>0.0280</b> | <b>4.5712</b> | <b>1.6685</b> | <b>6.2397</b> | <b>2.4886</b>  | <b>1.5350</b> | <b>4.0237</b> |          | <b>2,912.9924</b> | <b>2,912.9924</b> | <b>0.8787</b> |     | <b>2,931.4443</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      | 0.0329        | 0.4960        | 0.3600        | 1.3200e-003        | 0.0314        | 7.4600e-003        | 0.0388        | 8.5900e-003    | 6.8600e-003        | 0.0155        |          | 133.4411        | 133.4411        | 9.5000e-004        |     | 133.4610        |
| 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       | 0.0520        | 0.0672        | 0.8235        | 2.0400e-003        | 0.1677        | 1.1700e-003        | 0.1688        | 0.0445         | 1.0800e-003        | 0.0455        |          | 170.1902        | 170.1902        | 8.0000e-003        |     | 170.3583        |
| <b>Total</b> | <b>0.0849</b> | <b>0.5632</b> | <b>1.1834</b> | <b>3.3600e-003</b> | <b>0.1990</b> | <b>8.6300e-003</b> | <b>0.2077</b> | <b>0.0531</b>  | <b>7.9400e-003</b> | <b>0.0610</b> |          | <b>303.6314</b> | <b>303.6314</b> | <b>8.9500e-003</b> |     | <b>303.8193</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 |               |                |                |               | 0.8023        | 0.0000        | 0.8023        | 0.4368         | 0.0000        | 0.4368        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.8689        | 32.0625        | 18.5373        | 0.0280        |               | 1.6685        | 1.6685        |                | 1.5350        | 1.5350        | 0.0000        | 2,912.9924        | 2,912.9924        | 0.8787        |     | 2,931.4443        |
| <b>Total</b>  | <b>2.8689</b> | <b>32.0625</b> | <b>18.5373</b> | <b>0.0280</b> | <b>0.8023</b> | <b>1.6685</b> | <b>2.4708</b> | <b>0.4368</b>  | <b>1.5350</b> | <b>1.9718</b> | <b>0.0000</b> | <b>2,912.9924</b> | <b>2,912.9924</b> | <b>0.8787</b> |     | <b>2,931.4443</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      | 0.0329        | 0.4960        | 0.3600        | 1.3200e-003        | 0.0252        | 7.4600e-003        | 0.0326        | 7.0700e-003    | 6.8600e-003        | 0.0139        |          | 133.4411        | 133.4411        | 9.5000e-004        |     | 133.4610        |
| 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       | 0.0520        | 0.0672        | 0.8235        | 2.0400e-003        | 0.1298        | 1.1700e-003        | 0.1309        | 0.0352         | 1.0800e-003        | 0.0362        |          | 170.1902        | 170.1902        | 8.0000e-003        |     | 170.3583        |
| <b>Total</b> | <b>0.0849</b> | <b>0.5632</b> | <b>1.1834</b> | <b>3.3600e-003</b> | <b>0.1549</b> | <b>8.6300e-003</b> | <b>0.1636</b> | <b>0.0422</b>  | <b>7.9400e-003</b> | <b>0.0502</b> |          | <b>303.6314</b> | <b>303.6314</b> | <b>8.9500e-003</b> |     | <b>303.8193</b> |

**3.5 Building Construction - 2016**

**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     | 2.5916        | 23.8960        | 14.0066        | 0.0208        |               | 1.6151        | 1.6151        |                | 1.5130        | 1.5130        |          | 2,102.4486        | 2,102.4486        | 0.5033        |     | 2,113.0169        |
| <b>Total</b> | <b>2.5916</b> | <b>23.8960</b> | <b>14.0066</b> | <b>0.0208</b> |               | <b>1.6151</b> | <b>1.6151</b> |                | <b>1.5130</b> | <b>1.5130</b> |          | <b>2,102.4486</b> | <b>2,102.4486</b> | <b>0.5033</b> |     | <b>2,113.0169</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       | 0.0612        | 0.6055        | 0.7155        | 1.5100e-003        | 0.0438        | 9.6000e-003   | 0.0533        | 0.0125         | 8.8200e-003   | 0.0213        |          | 151.8012        | 151.8012        | 1.0800e-003   |     | 151.8238        |
| Worker       | 0.0625        | 0.0807        | 0.9882        | 2.4400e-003        | 0.2012        | 1.4100e-003   | 0.2026        | 0.0534         | 1.3000e-003   | 0.0547        |          | 204.2283        | 204.2283        | 9.6000e-003   |     | 204.4300        |
| <b>Total</b> | <b>0.1237</b> | <b>0.6862</b> | <b>1.7036</b> | <b>3.9500e-003</b> | <b>0.2450</b> | <b>0.0110</b> | <b>0.2559</b> | <b>0.0658</b>  | <b>0.0101</b> | <b>0.0759</b> |          | <b>356.0295</b> | <b>356.0295</b> | <b>0.0107</b> |     | <b>356.2538</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 | 2.5916 | 23.8960 | 14.0066 | 0.0208 |               | 1.6151       | 1.6151     |                | 1.5130        | 1.5130      | 0.0000   | 2,102.4486 | 2,102.4486 | 0.5033 |     | 2,113.0169 |

|              |               |                |                |               |  |               |               |  |               |               |               |                   |                   |               |  |                   |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|
| <b>Total</b> | <b>2.5916</b> | <b>23.8960</b> | <b>14.0066</b> | <b>0.0208</b> |  | <b>1.6151</b> | <b>1.6151</b> |  | <b>1.5130</b> | <b>1.5130</b> | <b>0.0000</b> | <b>2,102.4486</b> | <b>2,102.4486</b> | <b>0.5033</b> |  | <b>2,113.0169</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       | 0.0612        | 0.6055        | 0.7155        | 1.5100e-003        | 0.0354        | 9.6000e-003   | 0.0450        | 0.0104         | 8.8200e-003   | 0.0192        |          | 151.8012        | 151.8012        | 1.0800e-003   |     | 151.8238        |
| Worker       | 0.0625        | 0.0807        | 0.9882        | 2.4400e-003        | 0.1557        | 1.4100e-003   | 0.1571        | 0.0422         | 1.3000e-003   | 0.0435        |          | 204.2283        | 204.2283        | 9.6000e-003   |     | 204.4300        |
| <b>Total</b> | <b>0.1237</b> | <b>0.6862</b> | <b>1.7036</b> | <b>3.9500e-003</b> | <b>0.1912</b> | <b>0.0110</b> | <b>0.2022</b> | <b>0.0526</b>  | <b>0.0101</b> | <b>0.0627</b> |          | <b>356.0295</b> | <b>356.0295</b> | <b>0.0107</b> |     | <b>356.2538</b> |

### **3.6 Paving - 2016**

#### 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     | 1.1950        | 10.3957        | 6.4402        | 7.6700e-003        |               | 0.8171        | 0.8171        |                | 0.7517        | 0.7517        |          | 798.1505        | 798.1505        | 0.2408        |     | 803.2062        |
| Paving       | 0.0000        |                |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>1.1950</b> | <b>10.3957</b> | <b>6.4402</b> | <b>7.6700e-003</b> |               | <b>0.8171</b> | <b>0.8171</b> |                | <b>0.7517</b> | <b>0.7517</b> |          | <b>798.1505</b> | <b>798.1505</b> | <b>0.2408</b> |     | <b>803.2062</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       | 0.0174        | 0.0224        | 0.2745        | 6.8000e-004        | 0.0559        | 3.9000e-004        | 0.0563        | 0.0148         | 3.6000e-004        | 0.0152        |          | 56.7301        | 56.7301        | 2.6700e-003        |     | 56.7861        |
| <b>Total</b> | <b>0.0174</b> | <b>0.0224</b> | <b>0.2745</b> | <b>6.8000e-004</b> | <b>0.0559</b> | <b>3.9000e-004</b> | <b>0.0563</b> | <b>0.0148</b>  | <b>3.6000e-004</b> | <b>0.0152</b> |          | <b>56.7301</b> | <b>56.7301</b> | <b>2.6700e-003</b> |     | <b>56.7861</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     | 1.1950        | 10.3957        | 6.4402        | 7.6700e-003        |               | 0.8171        | 0.8171        |                | 0.7517        | 0.7517        | 0.0000        | 798.1505        | 798.1505        | 0.2408        |     | 803.2062        |
| Paving       | 0.0000        |                |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>1.1950</b> | <b>10.3957</b> | <b>6.4402</b> | <b>7.6700e-003</b> |               | <b>0.8171</b> | <b>0.8171</b> |                | <b>0.7517</b> | <b>0.7517</b> | <b>0.0000</b> | <b>798.1505</b> | <b>798.1505</b> | <b>0.2408</b> |     | <b>803.2062</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       | 0.0174        | 0.0224        | 0.2745        | 6.8000e-004        | 0.0433        | 3.9000e-004        | 0.0437        | 0.0117        | 3.6000e-004        | 0.0121        |  | 56.7301        | 56.7301        | 2.6700e-003        |  | 56.7861        |
| <b>Total</b> | <b>0.0174</b> | <b>0.0224</b> | <b>0.2745</b> | <b>6.8000e-004</b> | <b>0.0433</b> | <b>3.9000e-004</b> | <b>0.0437</b> | <b>0.0117</b> | <b>3.6000e-004</b> | <b>0.0121</b> |  | <b>56.7301</b> | <b>56.7301</b> | <b>2.6700e-003</b> |  | <b>56.7861</b> |

### 3.7 Architectural Coating - 2016

#### 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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| 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       | 0.0139        | 0.0179        | 0.2196        | 5.4000e-004        | 0.0447        | 3.1000e-004        | 0.0450        | 0.0119         | 2.9000e-004        | 0.0122        |          | 45.3841        | 45.3841        | 2.1300e-003        |     | 45.4289        |
| <b>Total</b> | <b>0.0139</b> | <b>0.0179</b> | <b>0.2196</b> | <b>5.4000e-004</b> | <b>0.0447</b> | <b>3.1000e-004</b> | <b>0.0450</b> | <b>0.0119</b>  | <b>2.9000e-004</b> | <b>0.0122</b> |          | <b>45.3841</b> | <b>45.3841</b> | <b>2.1300e-003</b> |     | <b>45.4289</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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |               | 0.0000        |               |     | 0.0000        |
| 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       | 0.0139        | 0.0179        | 0.2196        | 5.4000e-004        | 0.0346        | 3.1000e-004        | 0.0349        | 9.3800e-003        | 2.9000e-004        | 9.6600e-003        |          | 45.3841        | 45.3841        | 2.1300e-003        |     | 45.4289        |
| <b>Total</b> | <b>0.0139</b> | <b>0.0179</b> | <b>0.2196</b> | <b>5.4000e-004</b> | <b>0.0346</b> | <b>3.1000e-004</b> | <b>0.0349</b> | <b>9.3800e-003</b> | <b>2.9000e-004</b> | <b>9.6600e-003</b> |          | <b>45.3841</b> | <b>45.3841</b> | <b>2.1300e-003</b> |     | <b>45.4289</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   | 4.9800e-003 | 0.0112 | 0.0547 | 1.4000e-004 | 9.6700e-003   | 1.6000e-004  | 9.8200e-003 | 2.5800e-003    | 1.4000e-004   | 2.7200e-003 |          | 11.7449   | 11.7449   | 4.7000e-004 |     | 11.7547 |
| Unmitigated | 4.9800e-003 | 0.0112 | 0.0547 | 1.4000e-004 | 9.6700e-003   | 1.6000e-004  | 9.8200e-003 | 2.5800e-003    | 1.4000e-004   | 2.7200e-003 |          | 11.7449   | 11.7449   | 4.7000e-004 |     | 11.7547 |

#### 4.2 Trip Summary Information

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |
| Total     | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |

#### 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 |
| City Park | 16.60      | 8.40       | 6.90        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.511008 | 0.057223 | 0.191597 | 0.152361 | 0.041328 | 0.005882 | 0.015289 | 0.014281 | 0.001428 | 0.002141 | 0.004713 | 0.000509 | 0.002239 |

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

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   | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

## 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   |               |               |               |               |               |
| 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        |
| <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

|              | 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   |               |               |               |               |               |
| 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        |
| <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> |

## 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   | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |     | 2.3000e-004 |
| Unmitigated | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |     | 2.3000e-004 |

### 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   |                    |                    |               |     |                    |
| Consumer Products     | 0.8625        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 2.2000e-004        | 2.2000e-004        | 0.0000        |     | 2.3000e-004        |
| Architectural Coating | 0.0691        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| <b>Total</b>          | <b>0.9316</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>2.2000e-004</b> | <b>2.2000e-004</b> | <b>0.0000</b> |     | <b>2.3000e-004</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   |                    |                    |               |     |                    |
| Consumer Products     | 0.8625        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 2.2000e-004        | 2.2000e-004        | 0.0000        |     | 2.3000e-004        |
| Architectural Coating | 0.0691        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| <b>Total</b>          | <b>0.9316</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>2.2000e-004</b> | <b>2.2000e-004</b> | <b>0.0000</b> |     | <b>2.3000e-004</b> |

## 7.0 Water Detail

---

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---

## Little Corona Infiltration Project Orange County, Winter

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 1.00 | Acre   | 1.00        | 43,560.00          | 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>          | 2016  |
| <b>Utility Company</b>         | Southern California Edison |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 630.89                     | <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 -

Construction Phase - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defind

Grading - user-defined

Demolition -



Architectural Coating - user-defined

Area Coating - user-defined

Construction Off-road Equipment Mitigation - user-defined

| Table Name              | Column Name                       | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 21,780.00     | 0.00      |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 65,340.00     | 0.00      |
| tblAreaCoating          | Area_Nonresidential_Interior      | 65340         | 0         |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 26        |
| tblConstructionPhase    | NumDays                           | 5.00          | 1.00      |
| tblConstructionPhase    | NumDays                           | 100.00        | 55.00     |
| tblConstructionPhase    | NumDays                           | 10.00         | 5.00      |
| tblConstructionPhase    | NumDays                           | 2.00          | 15.00     |
| tblConstructionPhase    | NumDays                           | 5.00          | 10.00     |
| tblConstructionPhase    | PhaseEndDate                      | 5/2/2016      | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/30/2016     | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 1/30/2016     | 2/1/2016  |
| tblConstructionPhase    | PhaseStartDate                    | 1/9/2016      | 1/11/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/16/2016     | 4/18/2016 |
| tblGrading              | AcresOfGrading                    | 5.63          | 0.75      |
| tblGrading              | AcresOfGrading                    | 0.00          | 0.50      |
| tblGrading              | MaterialExported                  | 0.00          | 214.00    |
| tblOffRoadEquipment     | HorsePower                        | 80.00         | 84.00     |
| tblOffRoadEquipment     | HorsePower                        | 81.00         | 226.00    |
| tblOffRoadEquipment     | HorsePower                        | 253.00        | 89.00     |
| tblOffRoadEquipment     | HorsePower                        | 174.00        | 80.00     |
| tblOffRoadEquipment     | HorsePower                        | 125.00        | 255.00    |
| tblOffRoadEquipment     | LoadFactor                        | 0.50          | 0.74      |
| tblOffRoadEquipment     | LoadFactor                        | 0.73          | 0.29      |
| tblOffRoadEquipment     | LoadFactor                        | 0.30          | 0.20      |
| tblOffRoadEquipment     | LoadFactor                        | 0.41          | 0.38      |

|                           |                            |                     |                          |
|---------------------------|----------------------------|---------------------|--------------------------|
| tblOffRoadEquipment       | LoadFactor                 | 0.42                | 0.40                     |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Generator Sets      | Trenchers                |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Cranes              | Concrete/Industrial Saws |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Forklifts           | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rollers             | Graders                  |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rubber Tired Dozers | Pavers                   |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Trenchers                |
| 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                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblProjectCharacteristics | OperationalYear            | 2014                | 2016                     |
| tblTripsAndVMT            | WorkerTripNumber           | 8.00                | 5.00                     |

## 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   |           |           |     |     |      |

|              |               |                |                |               |               |               |               |               |               |               |               |                   |                   |               |               |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| 2016         | 2.9589        | 32.6495        | 19.7261        | 0.0313        | 4.7702        | 1.6772        | 6.4474        | 2.5417        | 1.5430        | 4.0847        | 0.0000        | 3,207.3007        | 3,207.3007        | 0.8876        | 0.0000        | 3,225.9408        |
| <b>Total</b> | <b>2.9589</b> | <b>32.6495</b> | <b>19.7261</b> | <b>0.0313</b> | <b>4.7702</b> | <b>1.6772</b> | <b>6.4474</b> | <b>2.5417</b> | <b>1.5430</b> | <b>4.0847</b> | <b>0.0000</b> | <b>3,207.3007</b> | <b>3,207.3007</b> | <b>0.8876</b> | <b>0.0000</b> | <b>3,225.9408</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         | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |               |                   |
| 2016         | 2.9589        | 32.6495        | 19.7261        | 0.0313        | 0.9572        | 1.6772        | 2.6343        | 0.4790         | 1.5430        | 2.0220        | 0.0000        | 3,207.3007        | 3,207.3007        | 0.8876        | 0.0000        | 3,225.9408        |
| <b>Total</b> | <b>2.9589</b> | <b>32.6495</b> | <b>19.7261</b> | <b>0.0313</b> | <b>0.9572</b> | <b>1.6772</b> | <b>2.6343</b> | <b>0.4790</b>  | <b>1.5430</b> | <b>2.0220</b> | <b>0.0000</b> | <b>3,207.3007</b> | <b>3,207.3007</b> | <b>0.8876</b> | <b>0.0000</b> | <b>3,225.9408</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 | 79.93         | 0.00         | 59.14      | 81.15          | 0.00          | 50.50       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

**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     | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |        | 2.3000e-004 |
| Energy   | 0.0000 | 0.0000 | 0.0000      | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000      | 0.0000      | 0.0000 | 0.0000 | 0.0000      |

|              |               |               |               |                    |                    |                    |                    |                    |                    |                    |  |                |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--|----------------|----------------|--------------------|---------------|----------------|
| Mobile       | 5.2900e-003   | 0.0119        | 0.0546        | 1.3000e-004        | 9.6700e-003        | 1.6000e-004        | 9.8200e-003        | 2.5800e-003        | 1.4000e-004        | 2.7200e-003        |  | 11.2298        | 11.2298        | 4.7000e-004        |               | 11.2395        |
| <b>Total</b> | <b>0.9369</b> | <b>0.0119</b> | <b>0.0547</b> | <b>1.3000e-004</b> | <b>9.6700e-003</b> | <b>1.6000e-004</b> | <b>9.8200e-003</b> | <b>2.5800e-003</b> | <b>1.4000e-004</b> | <b>2.7200e-003</b> |  | <b>11.2300</b> | <b>11.2300</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>11.2398</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         | 0.9316        | 0.0000        | 1.0000e-004   | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |          |           | 2.2000e-004    | 2.2000e-004    | 0.0000             |               | 2.3000e-004    |
| Energy       | 0.0000        | 0.0000        | 0.0000        | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |          |           | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Mobile       | 5.2900e-003   | 0.0119        | 0.0546        | 1.3000e-004        | 9.6700e-003        | 1.6000e-004        | 9.8200e-003        | 2.5800e-003        | 1.4000e-004        | 2.7200e-003        |          |           | 11.2298        | 11.2298        | 4.7000e-004        |               | 11.2395        |
| <b>Total</b> | <b>0.9369</b> | <b>0.0119</b> | <b>0.0547</b> | <b>1.3000e-004</b> | <b>9.6700e-003</b> | <b>1.6000e-004</b> | <b>9.8200e-003</b> | <b>2.5800e-003</b> | <b>1.4000e-004</b> | <b>2.7200e-003</b> |          |           | <b>11.2300</b> | <b>11.2300</b> | <b>4.7000e-004</b> | <b>0.0000</b> | <b>11.2398</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            | 1/1/2016   | 1/7/2016  | 5             | 5        |                   |
| 2            | Site Preparation      | Site Preparation      | 1/8/2016   | 1/8/2016  | 5             | 1        |                   |
| 3            | Grading               | Grading               | 1/11/2016  | 1/29/2016 | 5             | 15       |                   |
| 4            | Building Construction | Building Construction | 2/1/2016   | 4/15/2016 | 5             | 55       |                   |
| 5            | Paving                | Paving                | 4/18/2016  | 4/29/2016 | 5             | 10       |                   |

|   |                       |                       |           |           |   |   |
|---|-----------------------|-----------------------|-----------|-----------|---|---|
| 6 | Architectural Coating | Architectural Coating | 4/19/2016 | 4/19/2016 | 5 | 1 |
|---|-----------------------|-----------------------|-----------|-----------|---|---|

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 0      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 0      | 6.00        | 9           | 0.56        |
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Trenchers                 | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Concrete/Industrial Saws  | 1      | 6.00        | 226         | 0.29        |
| Building Construction | Surfacing Equipment       | 1      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 0      | 8.00        | 174         | 0.41        |
| Paving                | Pavers                    | 0      | 6.00        | 125         | 0.42        |
| Paving                | Graders                   | 1      | 7.00        | 80          | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 8.00        | 255         | 0.40        |
| Grading               | Pavers                    | 1      | 6.00        | 255         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Demolition            | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 6.00        | 174         | 0.41        |
| Paving                | Paving Equipment          | 0      | 8.00        | 130         | 0.36        |
| Site Preparation      | Rubber Tired Dozers       | 0      | 7.00        | 255         | 0.40        |
| Building Construction | Welders                   | 0      | 8.00        | 46          | 0.45        |
| Grading               | Surfacing Equipment       | 1      | 6.00        | 253         | 0.30        |



| Category      | lb/day        |               |               |                    |                    |               |               |                    |               |               | lb/day |                 |                 |               |                 |
|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|--------|-----------------|-----------------|---------------|-----------------|
| Fugitive Dust |               |               |               |                    | 2.3000e-004        | 0.0000        | 2.3000e-004   | 3.0000e-005        | 0.0000        | 3.0000e-005   |        |                 | 0.0000          |               | 0.0000          |
| Off-Road      | 0.6466        | 4.6220        | 3.7752        | 6.2600e-003        |                    | 0.3473        | 0.3473        |                    | 0.3473        | 0.3473        |        | 592.6657        | 592.6657        | 0.0574        | 593.8702        |
| <b>Total</b>  | <b>0.6466</b> | <b>4.6220</b> | <b>3.7752</b> | <b>6.2600e-003</b> | <b>2.3000e-004</b> | <b>0.3473</b> | <b>0.3475</b> | <b>3.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> |        | <b>592.6657</b> | <b>592.6657</b> | <b>0.0574</b> | <b>593.8702</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       | 0.0110        | 0.0148        | 0.1551        | 3.9000e-004        | 0.0335        | 2.3000e-004        | 0.0338        | 8.8900e-003        | 2.2000e-004        | 9.1100e-003        |          | 32.2370        | 32.2370        | 1.6000e-003        |     | 32.2707        |
| <b>Total</b> | <b>0.0110</b> | <b>0.0148</b> | <b>0.1551</b> | <b>3.9000e-004</b> | <b>0.0335</b> | <b>2.3000e-004</b> | <b>0.0338</b> | <b>8.8900e-003</b> | <b>2.2000e-004</b> | <b>9.1100e-003</b> |          | <b>32.2370</b> | <b>32.2370</b> | <b>1.6000e-003</b> |     | <b>32.2707</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 |        |        |        |             | 4.0000e-005   | 0.0000       | 4.0000e-005 | 1.0000e-005    | 0.0000        | 1.0000e-005 |          |           | 0.0000    |        |     | 0.0000   |
| Off-Road      | 0.6466 | 4.6220 | 3.7752 | 6.2600e-003 |               | 0.3473       | 0.3473      |                | 0.3473        | 0.3473      | 0.0000   | 592.6657  | 592.6657  | 0.0574 |     | 593.8702 |

|              |               |               |               |                    |                    |               |               |                    |               |               |               |                 |                 |               |  |                 |
|--------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|-----------------|-----------------|---------------|--|-----------------|
| <b>Total</b> | <b>0.6466</b> | <b>4.6220</b> | <b>3.7752</b> | <b>6.2600e-003</b> | <b>4.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> | <b>1.0000e-005</b> | <b>0.3473</b> | <b>0.3473</b> | <b>0.0000</b> | <b>592.6657</b> | <b>592.6657</b> | <b>0.0574</b> |  | <b>593.8702</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       | 0.0110        | 0.0148        | 0.1551        | 3.9000e-004        | 0.0260        | 2.3000e-004        | 0.0262        | 7.0300e-003        | 2.2000e-004        | 7.2500e-003        |          | 32.2370        | 32.2370        | 1.6000e-003        |     | 32.2707        |
| <b>Total</b> | <b>0.0110</b> | <b>0.0148</b> | <b>0.1551</b> | <b>3.9000e-004</b> | <b>0.0260</b> | <b>2.3000e-004</b> | <b>0.0262</b> | <b>7.0300e-003</b> | <b>2.2000e-004</b> | <b>7.2500e-003</b> |          | <b>32.2370</b> | <b>32.2370</b> | <b>1.6000e-003</b> |     | <b>32.2707</b> |

### **3.3 Site Preparation - 2016**

#### 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      | 0.0000        | 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>0.5303</b> | <b>0.0000</b> | <b>0.5303</b> | <b>0.0573</b>  | <b>0.0000</b> | <b>0.0573</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       | 0.0000        | 0.0000        | 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 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 |               |               |               |               | 0.0931        | 0.0000        | 0.0931        | 0.0101         | 0.0000        | 0.0101        |               |               | 0.0000        |               |     | 0.0000        |
| 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>0.0931</b> | <b>0.0000</b> | <b>0.0931</b> | <b>0.0101</b>  | <b>0.0000</b> | <b>0.0101</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        | 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       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 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> | <b>0.0000</b> | <b>0.0000</b> |

### 3.4 Grading - 2016

#### 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 |               |                |                |               | 4.5712        | 0.0000        | 4.5712        | 2.4886         | 0.0000        | 2.4886        |          |                   | 0.0000            |               |     |      | 0.0000            |
| Off-Road      | 2.8689        | 32.0625        | 18.5373        | 0.0280        |               | 1.6685        | 1.6685        |                | 1.5350        | 1.5350        |          | 2,912.9924        | 2,912.9924        | 0.8787        |     |      | 2,931.4443        |
| <b>Total</b>  | <b>2.8689</b> | <b>32.0625</b> | <b>18.5373</b> | <b>0.0280</b> | <b>4.5712</b> | <b>1.6685</b> | <b>6.2397</b> | <b>2.4886</b>  | <b>1.5350</b> | <b>4.0237</b> |          | <b>2,912.9924</b> | <b>2,912.9924</b> | <b>0.8787</b> |     |      | <b>2,931.4443</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      | 0.0352        | 0.5130        | 0.4132        | 1.3200e-003        | 0.0314        | 7.4800e-003        | 0.0388        | 8.5900e-003    | 6.8800e-003        | 0.0155        |          | 133.1231        | 133.1231        | 9.6000e-004        |     |      | 133.1432        |
| 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       | 0.0548        | 0.0739        | 0.7757        | 1.9300e-003        | 0.1677        | 1.1700e-003        | 0.1688        | 0.0445         | 1.0800e-003        | 0.0455        |          | 161.1852        | 161.1852        | 8.0000e-003        |     |      | 161.3532        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5869</b> | <b>1.1888</b> | <b>3.2500e-003</b> | <b>0.1990</b> | <b>8.6500e-003</b> | <b>0.2077</b> | <b>0.0531</b>  | <b>7.9600e-003</b> | <b>0.0610</b> |          | <b>294.3082</b> | <b>294.3082</b> | <b>8.9600e-003</b> |     |      | <b>294.4965</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 |               |                |                |               | 0.8023        | 0.0000        | 0.8023        | 0.4368         | 0.0000        | 0.4368        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.8689        | 32.0625        | 18.5373        | 0.0280        |               | 1.6685        | 1.6685        |                | 1.5350        | 1.5350        | 0.0000        | 2,912.9924        | 2,912.9924        | 0.8787        |     | 2,931.4443        |
| <b>Total</b>  | <b>2.8689</b> | <b>32.0625</b> | <b>18.5373</b> | <b>0.0280</b> | <b>0.8023</b> | <b>1.6685</b> | <b>2.4708</b> | <b>0.4368</b>  | <b>1.5350</b> | <b>1.9718</b> | <b>0.0000</b> | <b>2,912.9924</b> | <b>2,912.9924</b> | <b>0.8787</b> |     | <b>2,931.4443</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      | 0.0352        | 0.5130        | 0.4132        | 1.3200e-003        | 0.0252        | 7.4800e-003        | 0.0327        | 7.0700e-003    | 6.8800e-003        | 0.0139        |          | 133.1231        | 133.1231        | 9.6000e-004        |     | 133.1432        |
| 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       | 0.0548        | 0.0739        | 0.7757        | 1.9300e-003        | 0.1298        | 1.1700e-003        | 0.1309        | 0.0352         | 1.0800e-003        | 0.0362        |          | 161.1852        | 161.1852        | 8.0000e-003        |     | 161.3532        |
| <b>Total</b> | <b>0.0900</b> | <b>0.5869</b> | <b>1.1888</b> | <b>3.2500e-003</b> | <b>0.1549</b> | <b>8.6500e-003</b> | <b>0.1636</b> | <b>0.0422</b>  | <b>7.9600e-003</b> | <b>0.0502</b> |          | <b>294.3082</b> | <b>294.3082</b> | <b>8.9600e-003</b> |     | <b>294.4965</b> |

**3.5 Building Construction - 2016**

**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     | 2.5916        | 23.8960        | 14.0066        | 0.0208        |               | 1.6151        | 1.6151        |                | 1.5130        | 1.5130        |          | 2,102.4486        | 2,102.4486        | 0.5033        |     | 2,113.0169        |
| <b>Total</b> | <b>2.5916</b> | <b>23.8960</b> | <b>14.0066</b> | <b>0.0208</b> |               | <b>1.6151</b> | <b>1.6151</b> |                | <b>1.5130</b> | <b>1.5130</b> |          | <b>2,102.4486</b> | <b>2,102.4486</b> | <b>0.5033</b> |     | <b>2,113.0169</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       | 0.0679        | 0.6198        | 0.8599        | 1.5000e-003        | 0.0438        | 9.7000e-003   | 0.0534        | 0.0125         | 8.9200e-003   | 0.0214        |          | 150.5213        | 150.5213        | 1.1100e-003   |     | 150.5446        |
| Worker       | 0.0657        | 0.0887        | 0.9308        | 2.3100e-003        | 0.2012        | 1.4100e-003   | 0.2026        | 0.0534         | 1.3000e-003   | 0.0547        |          | 193.4222        | 193.4222        | 9.6000e-003   |     | 193.6239        |
| <b>Total</b> | <b>0.1336</b> | <b>0.7085</b> | <b>1.7907</b> | <b>3.8100e-003</b> | <b>0.2450</b> | <b>0.0111</b> | <b>0.2560</b> | <b>0.0658</b>  | <b>0.0102</b> | <b>0.0760</b> |          | <b>343.9435</b> | <b>343.9435</b> | <b>0.0107</b> |     | <b>344.1685</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 | 2.5916 | 23.8960 | 14.0066 | 0.0208 |               | 1.6151       | 1.6151     |                | 1.5130        | 1.5130      | 0.0000   | 2,102.4486 | 2,102.4486 | 0.5033 |     | 2,113.0169 |

|              |               |                |                |               |  |               |               |  |               |               |               |                   |                   |               |  |                   |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|---------------|-------------------|-------------------|---------------|--|-------------------|
| <b>Total</b> | <b>2.5916</b> | <b>23.8960</b> | <b>14.0066</b> | <b>0.0208</b> |  | <b>1.6151</b> | <b>1.6151</b> |  | <b>1.5130</b> | <b>1.5130</b> | <b>0.0000</b> | <b>2,102.4486</b> | <b>2,102.4486</b> | <b>0.5033</b> |  | <b>2,113.0169</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       | 0.0679        | 0.6198        | 0.8599        | 1.5000e-003        | 0.0354        | 9.7000e-003   | 0.0451        | 0.0104         | 8.9200e-003   | 0.0193        |          | 150.5213        | 150.5213        | 1.1100e-003   |     | 150.5446        |
| Worker       | 0.0657        | 0.0887        | 0.9308        | 2.3100e-003        | 0.1557        | 1.4100e-003   | 0.1571        | 0.0422         | 1.3000e-003   | 0.0435        |          | 193.4222        | 193.4222        | 9.6000e-003   |     | 193.6239        |
| <b>Total</b> | <b>0.1336</b> | <b>0.7085</b> | <b>1.7907</b> | <b>3.8100e-003</b> | <b>0.1912</b> | <b>0.0111</b> | <b>0.2023</b> | <b>0.0526</b>  | <b>0.0102</b> | <b>0.0628</b> |          | <b>343.9435</b> | <b>343.9435</b> | <b>0.0107</b> |     | <b>344.1685</b> |

**3.6 Paving - 2016**

**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     | 1.1950        | 10.3957        | 6.4402        | 7.6700e-003        |               | 0.8171        | 0.8171        |                | 0.7517        | 0.7517        |          | 798.1505        | 798.1505        | 0.2408        |     | 803.2062        |
| Paving       | 0.0000        |                |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>1.1950</b> | <b>10.3957</b> | <b>6.4402</b> | <b>7.6700e-003</b> |               | <b>0.8171</b> | <b>0.8171</b> |                | <b>0.7517</b> | <b>0.7517</b> |          | <b>798.1505</b> | <b>798.1505</b> | <b>0.2408</b> |     | <b>803.2062</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       | 0.0183        | 0.0247        | 0.2586        | 6.4000e-004        | 0.0559        | 3.9000e-004        | 0.0563        | 0.0148         | 3.6000e-004        | 0.0152        |          | 53.7284        | 53.7284        | 2.6700e-003        |     | 53.7844        |
| <b>Total</b> | <b>0.0183</b> | <b>0.0247</b> | <b>0.2586</b> | <b>6.4000e-004</b> | <b>0.0559</b> | <b>3.9000e-004</b> | <b>0.0563</b> | <b>0.0148</b>  | <b>3.6000e-004</b> | <b>0.0152</b> |          | <b>53.7284</b> | <b>53.7284</b> | <b>2.6700e-003</b> |     | <b>53.7844</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     | 1.1950        | 10.3957        | 6.4402        | 7.6700e-003        |               | 0.8171        | 0.8171        |                | 0.7517        | 0.7517        | 0.0000        | 798.1505        | 798.1505        | 0.2408        |     | 803.2062        |
| Paving       | 0.0000        |                |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>1.1950</b> | <b>10.3957</b> | <b>6.4402</b> | <b>7.6700e-003</b> |               | <b>0.8171</b> | <b>0.8171</b> |                | <b>0.7517</b> | <b>0.7517</b> | <b>0.0000</b> | <b>798.1505</b> | <b>798.1505</b> | <b>0.2408</b> |     | <b>803.2062</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       | 0.0183        | 0.0247        | 0.2586        | 6.4000e-004        | 0.0433        | 3.9000e-004        | 0.0437        | 0.0117        | 3.6000e-004        | 0.0121        |  | 53.7284        | 53.7284        | 2.6700e-003        |  | 53.7844        |
| <b>Total</b> | <b>0.0183</b> | <b>0.0247</b> | <b>0.2586</b> | <b>6.4000e-004</b> | <b>0.0433</b> | <b>3.9000e-004</b> | <b>0.0437</b> | <b>0.0117</b> | <b>3.6000e-004</b> | <b>0.0121</b> |  | <b>53.7284</b> | <b>53.7284</b> | <b>2.6700e-003</b> |  | <b>53.7844</b> |

### 3.7 Architectural Coating - 2016

#### 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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |               | 0.0000        |               |     | 0.0000        |
| 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       | 0.0146        | 0.0197        | 0.2068        | 5.1000e-004        | 0.0447        | 3.1000e-004        | 0.0450        | 0.0119         | 2.9000e-004        | 0.0122        |          | 42.9827        | 42.9827        | 2.1300e-003        |     | 43.0275        |
| <b>Total</b> | <b>0.0146</b> | <b>0.0197</b> | <b>0.2068</b> | <b>5.1000e-004</b> | <b>0.0447</b> | <b>3.1000e-004</b> | <b>0.0450</b> | <b>0.0119</b>  | <b>2.9000e-004</b> | <b>0.0122</b> |          | <b>42.9827</b> | <b>42.9827</b> | <b>2.1300e-003</b> |     | <b>43.0275</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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |               | 0.0000        |               |     | 0.0000        |
| 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       | 0.0146        | 0.0197        | 0.2068        | 5.1000e-004        | 0.0346        | 3.1000e-004        | 0.0349        | 9.3800e-003        | 2.9000e-004        | 9.6600e-003        |          | 42.9827        | 42.9827        | 2.1300e-003        |     | 43.0275        |
| <b>Total</b> | <b>0.0146</b> | <b>0.0197</b> | <b>0.2068</b> | <b>5.1000e-004</b> | <b>0.0346</b> | <b>3.1000e-004</b> | <b>0.0349</b> | <b>9.3800e-003</b> | <b>2.9000e-004</b> | <b>9.6600e-003</b> |          | <b>42.9827</b> | <b>42.9827</b> | <b>2.1300e-003</b> |     | <b>43.0275</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   | 5.2900e-003 | 0.0119 | 0.0546 | 1.3000e-004 | 9.6700e-003   | 1.6000e-004  | 9.8200e-003 | 2.5800e-003    | 1.4000e-004   | 2.7200e-003 |          | 11.2298   | 11.2298   | 4.7000e-004 |     | 11.2395 |
| Unmitigated | 5.2900e-003 | 0.0119 | 0.0546 | 1.3000e-004 | 9.6700e-003   | 1.6000e-004  | 9.8200e-003 | 2.5800e-003    | 1.4000e-004   | 2.7200e-003 |          | 11.2298   | 11.2298   | 4.7000e-004 |     | 11.2395 |

#### 4.2 Trip Summary Information

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |
| Total     | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |

#### 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 |
| City Park | 16.60      | 8.40       | 6.90        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.511008 | 0.057223 | 0.191597 | 0.152361 | 0.041328 | 0.005882 | 0.015289 | 0.014281 | 0.001428 | 0.002141 | 0.004713 | 0.000509 | 0.002239 |

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

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   | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated | 0.0000 | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

## 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   |               |               |               |               |               |
| 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        |
| <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

|              | 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   |               |               |               |               |               |
| 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        |
| <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> |

## 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   | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |     | 2.3000e-004 |
| Unmitigated | 0.9316 | 0.0000 | 1.0000e-004 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          | 2.2000e-004 | 2.2000e-004 | 0.0000 |     | 2.3000e-004 |

### 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   |                    |                    |               |     |                    |
| Consumer Products     | 0.8625        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 2.2000e-004        | 2.2000e-004        | 0.0000        |     | 2.3000e-004        |
| Architectural Coating | 0.0691        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| <b>Total</b>          | <b>0.9316</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>2.2000e-004</b> | <b>2.2000e-004</b> | <b>0.0000</b> |     | <b>2.3000e-004</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   |                    |                    |               |     |                    |
| Consumer Products     | 0.8625        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| Landscaping           | 1.0000e-005   | 0.0000        | 1.0000e-004        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 2.2000e-004        | 2.2000e-004        | 0.0000        |     | 2.3000e-004        |
| Architectural Coating | 0.0691        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                    | 0.0000             |               |     | 0.0000             |
| <b>Total</b>          | <b>0.9316</b> | <b>0.0000</b> | <b>1.0000e-004</b> | <b>0.0000</b> |               | <b>0.0000</b> | <b>0.0000</b> |                | <b>0.0000</b> | <b>0.0000</b> |          | <b>2.2000e-004</b> | <b>2.2000e-004</b> | <b>0.0000</b> |     | <b>2.3000e-004</b> |

## 7.0 Water Detail

---

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

---

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---

## Little Corona Infiltration Project Orange County, Annual

### 1.0 Project Characteristics

---

#### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------|------|--------|-------------|--------------------|------------|
| City Park | 1.00 | Acre   | 1.00        | 43,560.00          | 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>          | 2016  |
| <b>Utility Company</b>          | Southern California Edison |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 630.89                     | <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 -

Construction Phase - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defined

Off-road Equipment - user-defind

Grading - user-defined

Demolition -

Architectural Coating - user-defined

Area Coating - user-defined

Construction Off-road Equipment Mitigation - user-defined

| Table Name              | Column Name                       | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|-----------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 21,780.00     | 0.00      |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 65,340.00     | 0.00      |
| tblAreaCoating          | Area_Nonresidential_Interior      | 65340         | 0         |
| tblConstDustMitigation  | CleanPavedRoadPercentReduction    | 0             | 26        |
| tblConstructionPhase    | NumDays                           | 5.00          | 1.00      |
| tblConstructionPhase    | NumDays                           | 100.00        | 55.00     |
| tblConstructionPhase    | NumDays                           | 10.00         | 5.00      |
| tblConstructionPhase    | NumDays                           | 2.00          | 15.00     |
| tblConstructionPhase    | NumDays                           | 5.00          | 10.00     |
| tblConstructionPhase    | PhaseEndDate                      | 5/2/2016      | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/30/2016     | 4/19/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 1/30/2016     | 2/1/2016  |
| tblConstructionPhase    | PhaseStartDate                    | 1/9/2016      | 1/11/2016 |
| tblConstructionPhase    | PhaseStartDate                    | 4/16/2016     | 4/18/2016 |
| tblGrading              | AcresOfGrading                    | 5.63          | 0.75      |
| tblGrading              | AcresOfGrading                    | 0.00          | 0.50      |
| tblGrading              | MaterialExported                  | 0.00          | 214.00    |
| tblOffRoadEquipment     | HorsePower                        | 80.00         | 84.00     |
| tblOffRoadEquipment     | HorsePower                        | 81.00         | 226.00    |
| tblOffRoadEquipment     | HorsePower                        | 253.00        | 89.00     |
| tblOffRoadEquipment     | HorsePower                        | 174.00        | 80.00     |
| tblOffRoadEquipment     | HorsePower                        | 125.00        | 255.00    |
| tblOffRoadEquipment     | LoadFactor                        | 0.50          | 0.74      |
| tblOffRoadEquipment     | LoadFactor                        | 0.73          | 0.29      |
| tblOffRoadEquipment     | LoadFactor                        | 0.30          | 0.20      |
| tblOffRoadEquipment     | LoadFactor                        | 0.41          | 0.38      |

|                           |                            |                     |                          |
|---------------------------|----------------------------|---------------------|--------------------------|
| tblOffRoadEquipment       | LoadFactor                 | 0.42                | 0.40                     |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Generator Sets      | Trenchers                |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Cranes              | Concrete/Industrial Saws |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Forklifts           | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rollers             | Graders                  |
| tblOffRoadEquipment       | OffRoadEquipmentType       | Rubber Tired Dozers | Pavers                   |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Surfacing Equipment      |
| tblOffRoadEquipment       | OffRoadEquipmentType       |                     | Trenchers                |
| 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                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 1.00                | 0.00                     |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount | 3.00                | 0.00                     |
| tblProjectCharacteristics | OperationalYear            | 2014                | 2016                     |
| tblTripsAndVMT            | WorkerTripNumber           | 8.00                | 5.00                     |

## 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    |           |           |     |     |      |





|              |               |                    |                    |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |                    |               |
|--------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Mobile       | 9.1000e-004   | 2.2000e-003        | 9.9800e-003        | 2.0000e-005        | 1.7300e-003        | 3.0000e-005        | 1.7600e-003        | 4.6000e-004        | 3.0000e-005        | 4.9000e-004        | 0.0000        | 1.8753        | 1.8753        | 8.0000e-005        | 0.0000             | 1.8769        |
| Waste        |               |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0183        | 0.0000        | 0.0183        | 1.0800e-003        | 0.0000             | 0.0409        |
| Water        |               |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000        | 3.7881        | 3.7881        | 1.7000e-004        | 4.0000e-005        | 3.8029        |
| <b>Total</b> | <b>0.1709</b> | <b>2.2000e-003</b> | <b>9.9900e-003</b> | <b>2.0000e-005</b> | <b>1.7300e-003</b> | <b>3.0000e-005</b> | <b>1.7600e-003</b> | <b>4.6000e-004</b> | <b>3.0000e-005</b> | <b>4.9000e-004</b> | <b>0.0183</b> | <b>5.6634</b> | <b>5.6817</b> | <b>1.3300e-003</b> | <b>4.0000e-005</b> | <b>5.7208</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         | 0.1700        | 0.0000             | 1.0000e-005        | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000        | 2.0000e-005   | 2.0000e-005   | 0.0000             | 0.0000             | 3.0000e-005   |
| Energy       | 0.0000        | 0.0000             | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Mobile       | 9.1000e-004   | 2.2000e-003        | 9.9800e-003        | 2.0000e-005        | 1.7300e-003        | 3.0000e-005        | 1.7600e-003        | 4.6000e-004        | 3.0000e-005        | 4.9000e-004        | 0.0000        | 1.8753        | 1.8753        | 8.0000e-005        | 0.0000             | 1.8769        |
| Waste        |               |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0183        | 0.0000        | 0.0183        | 1.0800e-003        | 0.0000             | 0.0409        |
| Water        |               |                    |                    |                    |                    | 0.0000             | 0.0000             |                    | 0.0000             | 0.0000             | 0.0000        | 3.7881        | 3.7881        | 1.7000e-004        | 4.0000e-005        | 3.8029        |
| <b>Total</b> | <b>0.1709</b> | <b>2.2000e-003</b> | <b>9.9900e-003</b> | <b>2.0000e-005</b> | <b>1.7300e-003</b> | <b>3.0000e-005</b> | <b>1.7600e-003</b> | <b>4.6000e-004</b> | <b>3.0000e-005</b> | <b>4.9000e-004</b> | <b>0.0183</b> | <b>5.6634</b> | <b>5.6817</b> | <b>1.3300e-003</b> | <b>4.0000e-005</b> | <b>5.7208</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        | 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 | Demolition            | Demolition            | 1/1/2016  | 1/7/2016  | 5 | 5  |
| 2 | Site Preparation      | Site Preparation      | 1/8/2016  | 1/8/2016  | 5 | 1  |
| 3 | Grading               | Grading               | 1/11/2016 | 1/29/2016 | 5 | 15 |
| 4 | Building Construction | Building Construction | 2/1/2016  | 4/15/2016 | 5 | 55 |
| 5 | Paving                | Paving                | 4/18/2016 | 4/29/2016 | 5 | 10 |
| 6 | Architectural Coating | Architectural Coating | 4/19/2016 | 4/19/2016 | 5 | 1  |

**Acres of Grading (Site Preparation Phase): 0.5**

**Acres of Grading (Grading Phase): 0.75**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 0      | 6.00        | 78          | 0.48        |
| Paving                | Cement and Mortar Mixers  | 0      | 6.00        | 9           | 0.56        |
| Demolition            | Concrete/Industrial Saws  | 1      | 8.00        | 81          | 0.73        |
| Building Construction | Trenchers                 | 1      | 8.00        | 84          | 0.74        |
| Building Construction | Concrete/Industrial Saws  | 1      | 6.00        | 226         | 0.29        |
| Building Construction | Surfacing Equipment       | 1      | 6.00        | 89          | 0.20        |
| Site Preparation      | Graders                   | 0      | 8.00        | 174         | 0.41        |
| Paving                | Pavers                    | 0      | 6.00        | 125         | 0.42        |
| Paving                | Graders                   | 1      | 7.00        | 80          | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 8.00        | 255         | 0.40        |
| Grading               | Pavers                    | 1      | 6.00        | 255         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 1      | 6.00        | 97          | 0.37        |
| Demolition            | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |
| Grading               | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Site Preparation      | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

|                       |                     |   |      |     |      |
|-----------------------|---------------------|---|------|-----|------|
| Grading               | Graders             | 1 | 6.00 | 174 | 0.41 |
| Paving                | Paving Equipment    | 0 | 8.00 | 130 | 0.36 |
| Site Preparation      | Rubber Tired Dozers | 0 | 7.00 | 255 | 0.40 |
| Building Construction | Welders             | 0 | 8.00 | 46  | 0.45 |
| Grading               | Surfacing Equipment | 1 | 6.00 | 253 | 0.30 |
| Grading               | Trenchers           | 1 | 6.00 | 80  | 0.50 |
| Building Construction | Cranes              | 1 | 6.00 | 226 | 0.29 |
| Building Construction | Forklifts           | 1 | 6.00 | 89  | 0.20 |
| Building Construction | Generator Sets      | 1 | 8.00 | 84  | 0.74 |
| Grading               | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Paving                | Rollers             | 1 | 7.00 | 80  | 0.38 |

### 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            | 1                       | 3.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 0                       | 0.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 6                       | 15.00              | 0.00               | 27.00               | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 7                       | 18.00              | 7.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 3                       | 5.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 0                       | 4.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Soil Stabilizer

Replace Ground Cover

Water Exposed Area

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

### 3.2 Demolition - 2016

#### 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      | 1.6200e-003        | 0.0116        | 9.4400e-003        | 2.0000e-005        |               | 8.7000e-004        | 8.7000e-004        |                | 8.7000e-004        | 8.7000e-004        | 0.0000        | 1.3441        | 1.3441        | 1.3000e-004        | 0.0000        | 1.3469        |
| <b>Total</b>  | <b>1.6200e-003</b> | <b>0.0116</b> | <b>9.4400e-003</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>8.7000e-004</b> | <b>8.7000e-004</b> | <b>0.0000</b>  | <b>8.7000e-004</b> | <b>8.7000e-004</b> | <b>0.0000</b> | <b>1.3441</b> | <b>1.3441</b> | <b>1.3000e-004</b> | <b>0.0000</b> | <b>1.3469</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       | 3.0000e-005        | 4.0000e-005        | 4.0000e-004        | 0.0000        | 8.0000e-005        | 0.0000        | 8.0000e-005        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000        | 0.0742        | 0.0742        | 0.0000        | 0.0000        | 0.0743        |
| <b>Total</b> | <b>3.0000e-005</b> | <b>4.0000e-005</b> | <b>4.0000e-004</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>0.0000</b> | <b>8.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0742</b> | <b>0.0742</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0743</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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|



|              |               |               |               |               |                    |               |                    |                    |               |                    |               |               |               |               |               |               |
|--------------|---------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>3.0000e-005</b> | <b>0.0000</b> | <b>3.0000e-005</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       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 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> | <b>0.0000</b> | <b>0.0000</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 |               |               |               |               | 5.0000e-005        | 0.0000        | 5.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| 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>5.0000e-005</b> | <b>0.0000</b> | <b>5.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</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       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 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> | <b>0.0000</b> | <b>0.0000</b> |

### 3.4 Grading - 2016

#### 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 |               |               |               |                    | 0.0343        | 0.0000        | 0.0343        | 0.0187         | 0.0000        | 0.0187        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0215        | 0.2405        | 0.1390        | 2.1000e-004        |               | 0.0125        | 0.0125        |                | 0.0115        | 0.0115        | 0.0000        | 19.8197        | 19.8197        | 5.9800e-003        | 0.0000        | 19.9452        |
| <b>Total</b>  | <b>0.0215</b> | <b>0.2405</b> | <b>0.1390</b> | <b>2.1000e-004</b> | <b>0.0343</b> | <b>0.0125</b> | <b>0.0468</b> | <b>0.0187</b>  | <b>0.0115</b> | <b>0.0302</b> | <b>0.0000</b> | <b>19.8197</b> | <b>19.8197</b> | <b>5.9800e-003</b> | <b>0.0000</b> | <b>19.9452</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        | 3.9100e-003        | 3.0100e-003        | 1.0000e-005        | 2.3000e-004        | 6.0000e-005        | 2.9000e-004        | 6.0000e-005        | 5.0000e-005        | 1.1000e-004        | 0.0000        | 0.9070        | 0.9070        | 1.0000e-005        | 0.0000        | 0.9072        |
| 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       | 3.8000e-004        | 5.7000e-004        | 5.9400e-003        | 1.0000e-005        | 1.2400e-003        | 1.0000e-005        | 1.2400e-003        | 3.3000e-004        | 1.0000e-005        | 3.4000e-004        | 0.0000        | 1.1132        | 1.1132        | 5.0000e-005        | 0.0000        | 1.1144        |
| <b>Total</b> | <b>6.4000e-004</b> | <b>4.4800e-003</b> | <b>8.9500e-003</b> | <b>2.0000e-005</b> | <b>1.4700e-003</b> | <b>7.0000e-005</b> | <b>1.5300e-003</b> | <b>3.9000e-004</b> | <b>6.0000e-005</b> | <b>4.5000e-004</b> | <b>0.0000</b> | <b>2.0202</b> | <b>2.0202</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.0215</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 |               |               |               |                    | 6.0200e-003        | 0.0000        | 6.0200e-003   | 3.2800e-003        | 0.0000        | 3.2800e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0215        | 0.2405        | 0.1390        | 2.1000e-004        |                    | 0.0125        | 0.0125        |                    | 0.0115        | 0.0115        | 0.0000        | 19.8196        | 19.8196        | 5.9800e-003        | 0.0000        | 19.9452        |
| <b>Total</b>  | <b>0.0215</b> | <b>0.2405</b> | <b>0.1390</b> | <b>2.1000e-004</b> | <b>6.0200e-003</b> | <b>0.0125</b> | <b>0.0185</b> | <b>3.2800e-003</b> | <b>0.0115</b> | <b>0.0148</b> | <b>0.0000</b> | <b>19.8196</b> | <b>19.8196</b> | <b>5.9800e-003</b> | <b>0.0000</b> | <b>19.9452</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        | 3.9100e-003        | 3.0100e-003        | 1.0000e-005        | 1.9000e-004        | 6.0000e-005        | 2.4000e-004        | 5.0000e-005        | 5.0000e-005        | 1.0000e-004        | 0.0000        | 0.9070        | 0.9070        | 1.0000e-005        | 0.0000        | 0.9072        |
| 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       | 3.8000e-004        | 5.7000e-004        | 5.9400e-003        | 1.0000e-005        | 9.6000e-004        | 1.0000e-005        | 9.7000e-004        | 2.6000e-004        | 1.0000e-005        | 2.7000e-004        | 0.0000        | 1.1132        | 1.1132        | 5.0000e-005        | 0.0000        | 1.1144        |
| <b>Total</b> | <b>6.4000e-004</b> | <b>4.4800e-003</b> | <b>8.9500e-003</b> | <b>2.0000e-005</b> | <b>1.1500e-003</b> | <b>7.0000e-005</b> | <b>1.2100e-003</b> | <b>3.1000e-004</b> | <b>6.0000e-005</b> | <b>3.7000e-004</b> | <b>0.0000</b> | <b>2.0202</b> | <b>2.0202</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>2.0215</b> |



### 3.5 Building Construction - 2016

#### 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     | 0.0713        | 0.6571        | 0.3852        | 5.7000e-004        |               | 0.0444        | 0.0444        |                | 0.0416        | 0.0416        | 0.0000        | 52.4510        | 52.4510        | 0.0126        | 0.0000        | 52.7147        |
| <b>Total</b> | <b>0.0713</b> | <b>0.6571</b> | <b>0.3852</b> | <b>5.7000e-004</b> |               | <b>0.0444</b> | <b>0.0444</b> |                | <b>0.0416</b> | <b>0.0416</b> | <b>0.0000</b> | <b>52.4510</b> | <b>52.4510</b> | <b>0.0126</b> | <b>0.0000</b> | <b>52.7147</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       | 1.8000e-003        | 0.0174        | 0.0227        | 4.0000e-005        | 1.1800e-003        | 2.7000e-004        | 1.4500e-003        | 3.4000e-004        | 2.4000e-004        | 5.8000e-004        | 0.0000        | 3.7737        | 3.7737        | 3.0000e-005        | 0.0000        | 3.7742        |
| Worker       | 1.6900e-003        | 2.5100e-003   | 0.0261        | 6.0000e-005        | 5.4300e-003        | 4.0000e-005        | 5.4700e-003        | 1.4400e-003        | 4.0000e-005        | 1.4800e-003        | 0.0000        | 4.8981        | 4.8981        | 2.4000e-004        | 0.0000        | 4.9031        |
| <b>Total</b> | <b>3.4900e-003</b> | <b>0.0199</b> | <b>0.0488</b> | <b>1.0000e-004</b> | <b>6.6100e-003</b> | <b>3.1000e-004</b> | <b>6.9200e-003</b> | <b>1.7800e-003</b> | <b>2.8000e-004</b> | <b>2.0600e-003</b> | <b>0.0000</b> | <b>8.6718</b> | <b>8.6718</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>8.6774</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     | 0.0713        | 0.6571        | 0.3852        | 5.7000e-004        |               | 0.0444        | 0.0444        |                | 0.0416        | 0.0416        | 0.0000        | 52.4509        | 52.4509        | 0.0126        | 0.0000        | 52.7146        |
| <b>Total</b> | <b>0.0713</b> | <b>0.6571</b> | <b>0.3852</b> | <b>5.7000e-004</b> |               | <b>0.0444</b> | <b>0.0444</b> |                | <b>0.0416</b> | <b>0.0416</b> | <b>0.0000</b> | <b>52.4509</b> | <b>52.4509</b> | <b>0.0126</b> | <b>0.0000</b> | <b>52.7146</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       | 1.8000e-003        | 0.0174        | 0.0227        | 4.0000e-005        | 9.6000e-004        | 2.7000e-004        | 1.2300e-003        | 2.8000e-004        | 2.4000e-004        | 5.3000e-004        | 0.0000        | 3.7737        | 3.7737        | 3.0000e-005        | 0.0000        | 3.7742        |
| Worker       | 1.6900e-003        | 2.5100e-003   | 0.0261        | 6.0000e-005        | 4.2100e-003        | 4.0000e-005        | 4.2500e-003        | 1.1400e-003        | 4.0000e-005        | 1.1800e-003        | 0.0000        | 4.8981        | 4.8981        | 2.4000e-004        | 0.0000        | 4.9031        |
| <b>Total</b> | <b>3.4900e-003</b> | <b>0.0199</b> | <b>0.0488</b> | <b>1.0000e-004</b> | <b>5.1700e-003</b> | <b>3.1000e-004</b> | <b>5.4800e-003</b> | <b>1.4200e-003</b> | <b>2.8000e-004</b> | <b>1.7100e-003</b> | <b>0.0000</b> | <b>8.6718</b> | <b>8.6718</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>8.6774</b> |

### **3.6 Paving - 2016**

#### 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 | 5.9700e-003 | 0.0520 | 0.0322 | 4.0000e-005 |               | 4.0900e-003  | 4.0900e-003 |                | 3.7600e-003   | 3.7600e-003 | 0.0000   | 3.6204    | 3.6204    | 1.0900e-003 | 0.0000 | 3.6433 |

|              |                    |               |               |                    |  |                    |                    |  |                    |                    |               |               |               |                    |               |               |
|--------------|--------------------|---------------|---------------|--------------------|--|--------------------|--------------------|--|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Paving       | 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>5.9700e-003</b> | <b>0.0520</b> | <b>0.0322</b> | <b>4.0000e-005</b> |  | <b>4.0900e-003</b> | <b>4.0900e-003</b> |  | <b>3.7600e-003</b> | <b>3.7600e-003</b> | <b>0.0000</b> | <b>3.6204</b> | <b>3.6204</b> | <b>1.0900e-003</b> | <b>0.0000</b> | <b>3.6433</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       | 9.0000e-005        | 1.3000e-004        | 1.3200e-003        | 0.0000        | 2.7000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2474        | 0.2474        | 1.0000e-005        | 0.0000        | 0.2476        |
| <b>Total</b> | <b>9.0000e-005</b> | <b>1.3000e-004</b> | <b>1.3200e-003</b> | <b>0.0000</b> | <b>2.7000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2474</b> | <b>0.2474</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2476</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     | 5.9700e-003        | 0.0520        | 0.0322        | 4.0000e-005        |               | 4.0900e-003        | 4.0900e-003        |                | 3.7600e-003        | 3.7600e-003        | 0.0000        | 3.6204        | 3.6204        | 1.0900e-003        | 0.0000        | 3.6433        |
| Paving       | 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>5.9700e-003</b> | <b>0.0520</b> | <b>0.0322</b> | <b>4.0000e-005</b> |               | <b>4.0900e-003</b> | <b>4.0900e-003</b> |                | <b>3.7600e-003</b> | <b>3.7600e-003</b> | <b>0.0000</b> | <b>3.6204</b> | <b>3.6204</b> | <b>1.0900e-003</b> | <b>0.0000</b> | <b>3.6433</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       | 9.0000e-005        | 1.3000e-004        | 1.3200e-003        | 0.0000        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.2474        | 0.2474        | 1.0000e-005        | 0.0000        | 0.2476        |
| <b>Total</b> | <b>9.0000e-005</b> | <b>1.3000e-004</b> | <b>1.3200e-003</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.2474</b> | <b>0.2474</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2476</b> |

### 3.7 Architectural Coating - 2016

#### 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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| 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       | 1.0000e-005        | 1.0000e-005        | 1.1000e-004        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 1.0000e-005        | 0.0000        | 1.0000e-005        | 0.0000        | 0.0198        | 0.0198        | 0.0000        | 0.0000        | 0.0198        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.0198</b> | <b>0.0198</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0198</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 | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| 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       | 1.0000e-005        | 1.0000e-005        | 1.1000e-004        | 0.0000        | 2.0000e-005        | 0.0000        | 2.0000e-005        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0198        | 0.0198        | 0.0000        | 0.0000        | 0.0198        |
| <b>Total</b> | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0198</b> | <b>0.0198</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0198</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   | 9.1000e-004 | 2.2000e-003 | 9.9800e-003 | 2.0000e-005 | 1.7300e-003   | 3.0000e-005  | 1.7600e-003 | 4.6000e-004    | 3.0000e-005   | 4.9000e-004 | 0.0000   | 1.8753    | 1.8753    | 8.0000e-005 | 0.0000 | 1.8769 |
| Unmitigated | 9.1000e-004 | 2.2000e-003 | 9.9800e-003 | 2.0000e-005 | 1.7300e-003   | 3.0000e-005  | 1.7600e-003 | 4.6000e-004    | 3.0000e-005   | 4.9000e-004 | 0.0000   | 1.8753    | 1.8753    | 8.0000e-005 | 0.0000 | 1.8769 |

### 4.2 Trip Summary Information

| Land Use  | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|-----------|-------------------------|----------|--------|-------------|------------|
|           | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| City Park | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |
| Total     | 1.59                    | 1.59     | 1.59   | 4,575       | 4,575      |

### 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 |
| City Park | 16.60      | 8.40       | 6.90        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.511008 | 0.057223 | 0.191597 | 0.152361 | 0.041328 | 0.005882 | 0.015289 | 0.014281 | 0.001428 | 0.002141 | 0.004713 | 0.000509 | 0.002239 |

## 5.0 Energy Detail

### 4.4 Fleet Mix

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   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Electricity Unmitigated |         |        |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Mitigated    | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| NaturalGas Unmitigated  | 0.0000  | 0.0000 | 0.0000 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

### 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         |               |               |               |               |               |
| 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        |
| <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

|              | 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         |               |               |               |               |               |
| 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        |
| <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> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|              | Electricity Use | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|-----------------|---------------|---------------|---------------|---------------|
| Land Use     | kWh/yr          | MT/yr         |               |               |               |
| City Park    | 0               | 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> |

#### Mitigated

|           | Electricity Use | Total CO2 | CH4    | N2O    | CO2e   |
|-----------|-----------------|-----------|--------|--------|--------|
| Land Use  | kWh/yr          | MT/yr     |        |        |        |
| City Park | 0               | 0.0000    | 0.0000 | 0.0000 | 0.0000 |



|       |  |        |        |        |        |
|-------|--|--------|--------|--------|--------|
| Total |  | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|-------|--|--------|--------|--------|--------|

## 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   | 0.1700  | 0.0000 | 1.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0000 | 3.0000e-005 |
| Unmitigated | 0.1700  | 0.0000 | 1.0000e-005 | 0.0000 |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 2.0000e-005 | 2.0000e-005 | 0.0000 | 0.0000 | 3.0000e-005 |

### 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         |                    |                    |               |               |                    |
| Consumer Products     | 0.1574        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000        | 0.0000        | 1.0000e-005        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0000        | 3.0000e-005        |
| Architectural Coating | 0.0126        |               |                    |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| <b>Total</b>          | <b>0.1700</b> | <b>0.0000</b> | <b>1.0000e-005</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>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>3.0000e-005</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         |                    |                    |               |               |                    |
| Consumer Products     | 0.1574        |               |                    |               |               |              | 0.0000        | 0.0000         |               | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| Landscaping           | 0.0000        | 0.0000        | 1.0000e-005        | 0.0000        |               |              | 0.0000        | 0.0000         |               | 0.0000        | 0.0000        | 2.0000e-005        | 2.0000e-005        | 0.0000        | 0.0000        | 3.0000e-005        |
| Architectural Coating | 0.0126        |               |                    |               |               |              | 0.0000        | 0.0000         |               | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000             |
| <b>Total</b>          | <b>0.1700</b> | <b>0.0000</b> | <b>1.0000e-005</b> | <b>0.0000</b> |               |              | <b>0.0000</b> | <b>0.0000</b>  |               | <b>0.0000</b> | <b>0.0000</b> | <b>2.0000e-005</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>0.0000</b> | <b>3.0000e-005</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4         | N2O         | CO2e   |
|-------------|-----------|-------------|-------------|--------|
| Category    | MT/yr     |             |             |        |
| Mitigated   | 3.7881    | 1.7000e-004 | 4.0000e-005 | 3.8029 |
| Unmitigated | 3.7881    | 1.7000e-004 | 4.0000e-005 | 3.8029 |

**7.2 Water by Land Use**

**Unmitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 1.19148        | 3.7881        | 1.7000e-004        | 4.0000e-005        | 3.8029        |
| <b>Total</b> |                    | <b>3.7881</b> | <b>1.7000e-004</b> | <b>4.0000e-005</b> | <b>3.8029</b> |

**Mitigated**

|              | Indoor/Outdoor Use | Total CO2     | CH4                | N2O                | CO2e          |
|--------------|--------------------|---------------|--------------------|--------------------|---------------|
| Land Use     | Mgal               | MT/yr         |                    |                    |               |
| City Park    | 0 / 1.19148        | 3.7881        | 1.7000e-004        | 4.0000e-005        | 3.8029        |
| <b>Total</b> |                    | <b>3.7881</b> | <b>1.7000e-004</b> | <b>4.0000e-005</b> | <b>3.8029</b> |

**8.0 Waste Detail**

---

**8.1 Mitigation Measures Waste**

**Category/Year**

|  | Total CO2 | CH4 | N2O | CO2e |
|--|-----------|-----|-----|------|
|  | MT/yr     |     |     |      |

|             |        |             |        |        |
|-------------|--------|-------------|--------|--------|
| Mitigated   | 0.0183 | 1.0800e-003 | 0.0000 | 0.0409 |
| Unmitigated | 0.0183 | 1.0800e-003 | 0.0000 | 0.0409 |

## 8.2 Waste by Land Use

### Unmitigated

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.09           | 0.0183        | 1.0800e-003        | 0.0000        | 0.0409        |
| <b>Total</b> |                | <b>0.0183</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>0.0409</b> |

### Mitigated

|              | Waste Disposed | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|----------------|---------------|--------------------|---------------|---------------|
| Land Use     | tons           | MT/yr         |                    |               |               |
| City Park    | 0.09           | 0.0183        | 1.0800e-003        | 0.0000        | 0.0409        |
| <b>Total</b> |                | <b>0.0183</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>0.0409</b> |

## 9.0 Operational Offroad

---

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

## 10.0 Vegetation

---