



## 11.4 Air Quality/Greenhouse Gas Emissions Data

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**Parenthetical CALEEMOD Assumptions  
For: Lido House Hotel  
Date: February 2014**

## **CONSTRUCTION**

### **Demolition (2016)**

- 22 days.

#### **Equipment:**

| Quantity | Type                     | Hours of Daily Operation |
|----------|--------------------------|--------------------------|
| 1        | Bore/Drill Rig           | 2                        |
| 20       | Concrete/Industrial Saws | 4                        |
| 2        | Crawler Tractors         | 4                        |
| 1        | Off-Highway Tractor      | 4                        |
| 1        | Rough Terrain Forklift   | 4                        |
| 2        | Rubber Tired Loaders     | 4                        |
| 1        | Tractor/Loader/Backhoe   | 4                        |

### **Grading 1 (2016)**

- 18,448 cubic yards of cut and fill.
- 21 days.

#### **Equipment:**

| Quantity | Type      | Hours of Daily Operation |
|----------|-----------|--------------------------|
| 2        | Graders   | 8                        |
| 1        | Excavator | 8                        |

### **Grading 2 (2016)**

- 7,379 cubic yards of import.
- 21 days.

#### **Equipment:**

| Quantity | Type               | Hours of Daily Operation |
|----------|--------------------|--------------------------|
| 2        | Excavators         | 8                        |
| 1        | Grader             | 8                        |
| 1        | Rubber Tired Dozer | 8                        |

### **Paving 1 (2016)**

- 23 days.

**Equipment:**

| Quantity | Type    | Hours of Daily Operation |
|----------|---------|--------------------------|
| 1        | Grader  | 8                        |
| 2        | Rollers | 6                        |

**Building Construction (2016 - 2017)**

- 305 days.

**Equipment:**

| Quantity | Type                      | Hours of Daily Operation |
|----------|---------------------------|--------------------------|
| 1        | Crane                     | 7                        |
| 3        | Forklifts                 | 8                        |
| 1        | Generator Set             | 8                        |
| 6        | Tractors/Loaders/Backhoes | 7                        |
| 1        | Welder                    | 8                        |

**Paving 2 (2017)**

- 23 days.

**Equipment:**

| Quantity | Type             | Hours of Daily Operation |
|----------|------------------|--------------------------|
| 1        | Paver            | 8                        |
| 1        | Paving Equipment | 6                        |
| 1        | Roller           | 6                        |

**Architectural Coating (2017)**

- 86 days.

**Equipment (CALEEMOD Default):**

| Quantity | Type           | Hours of Daily Operation |
|----------|----------------|--------------------------|
| 1        | Air Compressor | 6                        |

**OPERATIONS**

- 130-room hotel.
- 143 parking lot spaces.
- 1,062 daily trips.

**Lido House Hotel**  
**South Coast Air Basin, Annual**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses   | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------|--------|--------|-------------|--------------------|------------|
| Parking Lot | 143.00 |        | 0.00        |                    | 0          |
| Hotel       | 130.00 | Room   | 4.33        | 188,760.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 31    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2017  |
| <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 - Proposed Land Uses
- Construction Phase - Anticipated Construction Schedule
- Off-road Equipment - Default
- Off-road Equipment - Default
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment
- Off-road Equipment - Proposed Equipment

Trips and VMT - Demolition Hauling Distance = 32 to reflect distance to disposal site.

Grading 2 Hauling Distance = 0.08 to reflect distance across the project site.

Demolition -

Grading - Acres disturbed split among 2 grading phases

Construction Off-road Equipment Mitigation - Mitigation Per SCAQMD Rule 403

| Table Name             | Column Name                    | Default Value | New Value |
|------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 26        |
| tblConstructionPhase   | NumDays                        | 18.00         | 86.00     |
| tblConstructionPhase   | NumDays                        | 230.00        | 305.00    |
| tblConstructionPhase   | NumDays                        | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | PhaseEndDate                   | 12/29/2016    | 5/31/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 9/29/2017     | 9/30/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 7/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 8/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 11/1/2017     | 8/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 7/3/2017      | 5/31/2017 |
| tblConstructionPhase   | PhaseStartDate                 | 9/1/2016      | 2/1/2017  |
| tblConstructionPhase   | PhaseStartDate                 | 8/1/2016      | 7/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 10/1/2017     | 8/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 6/1/2017      | 5/1/2017  |
| tblGrading             | AcresOfGrading                 | 10.50         | 2.00      |
| tblGrading             | AcresOfGrading                 | 10.50         | 0.00      |
| tblGrading             | AcresOfGrading                 | 21.00         | 2.00      |
| tblGrading             | MaterialExported               | 0.00          | 11,069.00 |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |

|                           |                                     |       |       |
|---------------------------|-------------------------------------|-------|-------|
| tblGrading                | MaterialMoistureContentBulldozing   | 7.90  | 0.00  |
| tblGrading                | MaterialMoistureContentTruckLoading | 12.00 | 0.00  |
| tblGrading                | MaterialSiltContent                 | 6.90  | 0.00  |
| tblGrading                | MeanVehicleSpeed                    | 7.10  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 20.00 |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblProjectCharacteristics | OperationalYear                     | 2014  | 2017  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 32.00 |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.08  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.00  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 30.00 |





## 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     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr          |                   |                   |               |               |                   |
| Area         | 0.9012        | 3.0000e-005   | 3.5500e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   | 0.0000         | 6.7800e-003       | 6.7800e-003       | 2.0000e-005   | 0.0000        | 7.1700e-003       |
| Energy       | 0.0364        | 0.3310        | 0.2780        | 1.9900e-003   |               | 0.0252        | 0.0252        |                | 0.0252        | 0.0252        | 0.0000         | 905.3397          | 905.3397          | 0.0320        | 0.0118        | 909.6654          |
| Mobile       | 0.5764        | 1.5128        | 5.9878        | 0.0136        | 0.9234        | 0.0200        | 0.9434        | 0.2471         | 0.0184        | 0.2655        | 0.0000         | 1,054.0596        | 1,054.0596        | 0.0423        | 0.0000        | 1,054.9472        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 14.4469        | 0.0000            | 14.4469           | 0.8538        | 0.0000        | 32.3764           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 1.0462         | 13.4527           | 14.4989           | 0.1081        | 2.6700e-003   | 17.5946           |
| <b>Total</b> | <b>1.5140</b> | <b>1.8438</b> | <b>6.2693</b> | <b>0.0156</b> | <b>0.9234</b> | <b>0.0452</b> | <b>0.9685</b> | <b>0.2471</b>  | <b>0.0436</b> | <b>0.2907</b> | <b>15.4931</b> | <b>1,972.8587</b> | <b>1,988.3518</b> | <b>1.0361</b> | <b>0.0145</b> | <b>2,014.5907</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         | 0.9012        | 3.0000e-005   | 3.5500e-003   | 0.0000        |               | 1.0000e-005   | 1.0000e-005   |                | 1.0000e-005   | 1.0000e-005   | 0.0000         | 6.7800e-003       | 6.7800e-003       | 2.0000e-005   | 0.0000        | 7.1700e-003       |
| Energy       | 0.0364        | 0.3310        | 0.2780        | 1.9900e-003   |               | 0.0252        | 0.0252        |                | 0.0252        | 0.0252        | 0.0000         | 905.3397          | 905.3397          | 0.0320        | 0.0118        | 909.6654          |
| Mobile       | 0.5764        | 1.5128        | 5.9878        | 0.0136        | 0.9234        | 0.0200        | 0.9434        | 0.2471         | 0.0184        | 0.2655        | 0.0000         | 1,054.0596        | 1,054.0596        | 0.0423        | 0.0000        | 1,054.9472        |
| Waste        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 14.4469        | 0.0000            | 14.4469           | 0.8538        | 0.0000        | 32.3764           |
| Water        |               |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 1.0462         | 13.4527           | 14.4989           | 0.1081        | 2.6600e-003   | 17.5930           |
| <b>Total</b> | <b>1.5140</b> | <b>1.8438</b> | <b>6.2693</b> | <b>0.0156</b> | <b>0.9234</b> | <b>0.0452</b> | <b>0.9685</b> | <b>0.2471</b>  | <b>0.0436</b> | <b>0.2907</b> | <b>15.4931</b> | <b>1,972.8587</b> | <b>1,988.3518</b> | <b>1.0361</b> | <b>0.0145</b> | <b>2,014.5891</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>0.07</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            | 6/1/2016   | 6/30/2016 | 5             | 22       |                   |
| 2            | Grading 2             | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 3            | Grading               | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 4            | Building Construction | Building Construction | 8/1/2016   | 9/30/2017 | 5             | 305      |                   |
| 5            | Paving                | Paving                | 8/1/2016   | 8/31/2016 | 5             | 23       |                   |
| 6            | Architectural Coating | Architectural Coating | 2/1/2017   | 5/31/2017 | 5             | 86       |                   |
| 7            | Paving 2              | Paving                | 5/1/2017   | 5/31/2017 | 5             | 23       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,140; Non-Residential Outdoor: 94,380 (Architectural Coating –

#### OffRoad Equipment

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Bore/Drill Rigs           | 1      | 2.00        | 205         | 0.50        |
| Demolition | Concrete/Industrial Saws  | 20     | 4.00        | 81          | 0.73        |
| Demolition | Crawler Tractors          | 2      | 4.00        | 208         | 0.43        |
| Demolition | Excavators                | 0      | 4.00        | 162         | 0.38        |
| Demolition | Off-Highway Tractors      | 1      | 4.00        | 122         | 0.44        |
| Demolition | Rough Terrain Forklifts   | 1      | 4.00        | 100         | 0.40        |
| Demolition | Rubber Tired Dozers       | 0      | 4.00        | 255         | 0.40        |
| Demolition | Rubber Tired Loaders      | 2      | 4.00        | 199         | 0.36        |
| Demolition | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Grading 2  | Excavators                | 2      | 8.00        | 162         | 0.38        |

|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Grading 2             | Graders                   | 1 | 8.00 | 174 | 0.41 |
| Grading 2             | Rubber Tired Dozers       | 1 | 8.00 | 255 | 0.40 |
| Grading 2             | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading               | Excavators                | 1 | 8.00 | 162 | 0.38 |
| Grading               | Graders                   | 2 | 8.00 | 174 | 0.41 |
| Grading               | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading               | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Building Construction | Cranes                    | 1 | 7.00 | 226 | 0.29 |
| Building Construction | Forklifts                 | 3 | 8.00 | 89  | 0.20 |
| Building Construction | Generator Sets            | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Welders                   | 1 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving                | Graders                   | 1 | 8.00 | 174 | 0.41 |
| Paving                | Pavers                    | 0 | 8.00 | 125 | 0.42 |
| Paving                | Paving Equipment          | 0 | 6.00 | 130 | 0.36 |
| Paving                | Rollers                   | 2 | 6.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78  | 0.48 |
| Paving 2              | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving 2              | Graders                   | 0 | 8.00 | 174 | 0.41 |
| Paving 2              | Pavers                    | 1 | 8.00 | 125 | 0.42 |
| Paving 2              | Paving Equipment          | 1 | 6.00 | 130 | 0.36 |
| Paving 2              | Rollers                   | 1 | 6.00 | 80  | 0.38 |
| Paving 2              | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |

## Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 28                      | 70.00              | 0.00               | 276.00              | 14.70              | 6.90               | 32.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 14.70              | 6.90               | 0.08                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 3                       | 8.00               | 0.00               | 730.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 31.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 16.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving 2              | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Replace Ground Cover

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved 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 |               |               |               |                    | 0.0298        | 0.0000        | 0.0298        | 4.5200e-003        | 0.0000        | 4.5200e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0904        | 0.7552        | 0.5157        | 9.3000e-004        |               | 0.0485        | 0.0485        |                    | 0.0477        | 0.0477        | 0.0000        | 81.5416        | 81.5416        | 0.0125        | 0.0000        | 81.8037        |
| <b>Total</b>  | <b>0.0904</b> | <b>0.7552</b> | <b>0.5157</b> | <b>9.3000e-004</b> | <b>0.0298</b> | <b>0.0485</b> | <b>0.0783</b> | <b>4.5200e-003</b> | <b>0.0477</b> | <b>0.0522</b> | <b>0.0000</b> | <b>81.5416</b> | <b>81.5416</b> | <b>0.0125</b> | <b>0.0000</b> | <b>81.8037</b> |

**Unmitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 3.3800e-003        | 0.0627        | 0.0368        | 1.6000e-004        | 3.7800e-003   | 9.4000e-004        | 4.7200e-003   | 1.0400e-003        | 8.7000e-004        | 1.9000e-003        | 0.0000        | 14.7580        | 14.7580        | 1.0000e-004        | 0.0000        | 14.7602        |
| 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       | 3.0900e-003        | 4.5300e-003   | 0.0472        | 1.0000e-004        | 8.4500e-003   | 7.0000e-005        | 8.5200e-003   | 2.2400e-003        | 7.0000e-005        | 2.3100e-003        | 0.0000        | 7.9148         | 7.9148         | 4.3000e-004        | 0.0000        | 7.9238         |
| <b>Total</b> | <b>6.4700e-003</b> | <b>0.0672</b> | <b>0.0839</b> | <b>2.6000e-004</b> | <b>0.0122</b> | <b>1.0100e-003</b> | <b>0.0132</b> | <b>3.2800e-003</b> | <b>9.4000e-004</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>22.6729</b> | <b>22.6729</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>22.6840</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                    |               |               | MT/yr         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.0283        | 0.0000        | 0.0283        | 4.2900e-003        | 0.0000        | 4.2900e-003   | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0904        | 0.7552        | 0.5157        | 9.3000e-004        |               | 0.0485        | 0.0485        |                    | 0.0477        | 0.0477        | 0.0000        | 81.5415        | 81.5415        | 0.0125        | 0.0000        | 81.8036        |
| <b>Total</b>  | <b>0.0904</b> | <b>0.7552</b> | <b>0.5157</b> | <b>9.3000e-004</b> | <b>0.0283</b> | <b>0.0485</b> | <b>0.0768</b> | <b>4.2900e-003</b> | <b>0.0477</b> | <b>0.0520</b> | <b>0.0000</b> | <b>81.5415</b> | <b>81.5415</b> | <b>0.0125</b> | <b>0.0000</b> | <b>81.8036</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 3.3800e-003        | 0.0627        | 0.0368        | 1.6000e-004        | 3.7800e-003   | 9.4000e-004        | 4.7200e-003   | 1.0400e-003        | 8.7000e-004        | 1.9000e-003        | 0.0000        | 14.7580        | 14.7580        | 1.0000e-004        | 0.0000        | 14.7602        |
| 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       | 3.0900e-003        | 4.5300e-003   | 0.0472        | 1.0000e-004        | 8.4500e-003   | 7.0000e-005        | 8.5200e-003   | 2.2400e-003        | 7.0000e-005        | 2.3100e-003        | 0.0000        | 7.9148         | 7.9148         | 4.3000e-004        | 0.0000        | 7.9238         |
| <b>Total</b> | <b>6.4700e-003</b> | <b>0.0672</b> | <b>0.0839</b> | <b>2.6000e-004</b> | <b>0.0122</b> | <b>1.0100e-003</b> | <b>0.0132</b> | <b>3.2800e-003</b> | <b>9.4000e-004</b> | <b>4.2100e-003</b> | <b>0.0000</b> | <b>22.6729</b> | <b>22.6729</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>22.6840</b> |

**3.3 Grading 2 - 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 |               |               |               |                    | 0.0643        | 0.0000        | 0.0643        | 0.0349         | 0.0000        | 0.0349        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0319        | 0.3477        | 0.2338        | 2.7000e-004        |               | 0.0175        | 0.0175        |                | 0.0161        | 0.0161        | 0.0000        | 25.4584        | 25.4584        | 7.6800e-003        | 0.0000        | 25.6197        |
| <b>Total</b>  | <b>0.0319</b> | <b>0.3477</b> | <b>0.2338</b> | <b>2.7000e-004</b> | <b>0.0643</b> | <b>0.0175</b> | <b>0.0818</b> | <b>0.0349</b>  | <b>0.0161</b> | <b>0.0510</b> | <b>0.0000</b> | <b>25.4584</b> | <b>25.4584</b> | <b>7.6800e-003</b> | <b>0.0000</b> | <b>25.6197</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      | 7.6700e-003        | 0.0230        | 0.1534        | 2.0000e-005        | 9.0000e-005        | 7.0000e-005        | 1.6000e-004        | 3.0000e-005        | 6.0000e-005        | 9.0000e-005        | 0.0000        | 1.8726        | 1.8726        | 5.0000e-005        | 0.0000        | 1.8737        |
| 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       | 6.9000e-004        | 6.7000e-004   | 7.1900e-003   | 1.0000e-005        | 2.1500e-003        | 1.0000e-005        | 2.1600e-003        | 5.5000e-004        | 1.0000e-005        | 5.6000e-004        | 0.0000        | 1.1016        | 1.1016        | 6.0000e-005        | 0.0000        | 1.1029        |
| <b>Total</b> | <b>8.3600e-003</b> | <b>0.0236</b> | <b>0.1606</b> | <b>3.0000e-005</b> | <b>2.2400e-003</b> | <b>8.0000e-005</b> | <b>2.3200e-003</b> | <b>5.8000e-004</b> | <b>7.0000e-005</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>2.9741</b> | <b>2.9741</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>2.9766</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 0.0611        | 0.0000        | 0.0611        | 0.0331         | 0.0000        | 0.0331        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0319        | 0.3477        | 0.2338        | 2.7000e-004        |               | 0.0175        | 0.0175        |                | 0.0161        | 0.0161        | 0.0000        | 25.4584        | 25.4584        | 7.6800e-003        | 0.0000        | 25.6196        |
| <b>Total</b>  | <b>0.0319</b> | <b>0.3477</b> | <b>0.2338</b> | <b>2.7000e-004</b> | <b>0.0611</b> | <b>0.0175</b> | <b>0.0786</b> | <b>0.0331</b>  | <b>0.0161</b> | <b>0.0492</b> | <b>0.0000</b> | <b>25.4584</b> | <b>25.4584</b> | <b>7.6800e-003</b> | <b>0.0000</b> | <b>25.6196</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 7.6700e-003        | 0.0230        | 0.1534        | 2.0000e-005        | 9.0000e-005        | 7.0000e-005        | 1.6000e-004        | 3.0000e-005        | 6.0000e-005        | 9.0000e-005        | 0.0000        | 1.8726        | 1.8726        | 5.0000e-005        | 0.0000        | 1.8737        |
| 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       | 6.9000e-004        | 6.7000e-004   | 7.1900e-003   | 1.0000e-005        | 2.1500e-003        | 1.0000e-005        | 2.1600e-003        | 5.5000e-004        | 1.0000e-005        | 5.6000e-004        | 0.0000        | 1.1016        | 1.1016        | 6.0000e-005        | 0.0000        | 1.1029        |
| <b>Total</b> | <b>8.3600e-003</b> | <b>0.0236</b> | <b>0.1606</b> | <b>3.0000e-005</b> | <b>2.2400e-003</b> | <b>8.0000e-005</b> | <b>2.3200e-003</b> | <b>5.8000e-004</b> | <b>7.0000e-005</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>2.9741</b> | <b>2.9741</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>2.9766</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 |               |               |               |                    | 1.0600e-003        | 0.0000        | 1.0600e-003   | 1.1000e-004        | 0.0000        | 1.1000e-004   | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0255        | 0.2645        | 0.1395        | 1.9000e-004        |                    | 0.0145        | 0.0145        |                    | 0.0134        | 0.0134        | 0.0000        | 17.6100        | 17.6100        | 5.3100e-003        | 0.0000        | 17.7215        |
| <b>Total</b>  | <b>0.0255</b> | <b>0.2645</b> | <b>0.1395</b> | <b>1.9000e-004</b> | <b>1.0600e-003</b> | <b>0.0145</b> | <b>0.0156</b> | <b>1.1000e-004</b> | <b>0.0134</b> | <b>0.0135</b> | <b>0.0000</b> | <b>17.6100</b> | <b>17.6100</b> | <b>5.3100e-003</b> | <b>0.0000</b> | <b>17.7215</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      | 8.5400e-003        | 0.1560        | 0.0944        | 4.0000e-004        | 9.3800e-003   | 2.3400e-003        | 0.0117        | 2.5700e-003        | 2.1500e-003        | 4.7200e-003        | 0.0000        | 36.6304        | 36.6304        | 2.6000e-004        | 0.0000        | 36.6358        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 3.4000e-004        | 4.9000e-004   | 5.1400e-003   | 1.0000e-005        | 9.2000e-004   | 1.0000e-005        | 9.3000e-004   | 2.4000e-004        | 1.0000e-005        | 2.5000e-004        | 0.0000        | 0.8634         | 0.8634         | 5.0000e-005        | 0.0000        | 0.8644         |
| <b>Total</b> | <b>8.8800e-003</b> | <b>0.1565</b> | <b>0.0995</b> | <b>4.1000e-004</b> | <b>0.0103</b> | <b>2.3500e-003</b> | <b>0.0127</b> | <b>2.8100e-003</b> | <b>2.1600e-003</b> | <b>4.9700e-003</b> | <b>0.0000</b> | <b>37.4938</b> | <b>37.4938</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>37.5002</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10  | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr       |               |               |                    |                    |               |               |                    |               |               | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |               |               |               |                    | 1.0100e-003        | 0.0000        | 1.0100e-003   | 1.1000e-004        | 0.0000        | 1.1000e-004   | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 0.0255        | 0.2645        | 0.1395        | 1.9000e-004        |                    | 0.0145        | 0.0145        |                    | 0.0134        | 0.0134        | 0.0000        | 17.6100        | 17.6100        | 5.3100e-003        | 0.0000        | 17.7215        |
| <b>Total</b>  | <b>0.0255</b> | <b>0.2645</b> | <b>0.1395</b> | <b>1.9000e-004</b> | <b>1.0100e-003</b> | <b>0.0145</b> | <b>0.0155</b> | <b>1.1000e-004</b> | <b>0.0134</b> | <b>0.0135</b> | <b>0.0000</b> | <b>17.6100</b> | <b>17.6100</b> | <b>5.3100e-003</b> | <b>0.0000</b> | <b>17.7215</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      | 8.5400e-003        | 0.1560        | 0.0944        | 4.0000e-004        | 9.3800e-003   | 2.3400e-003        | 0.0117        | 2.5700e-003        | 2.1500e-003        | 4.7200e-003        | 0.0000        | 36.6304        | 36.6304        | 2.6000e-004        | 0.0000        | 36.6358        |
| Vendor       | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 3.4000e-004        | 4.9000e-004   | 5.1400e-003   | 1.0000e-005        | 9.2000e-004   | 1.0000e-005        | 9.3000e-004   | 2.4000e-004        | 1.0000e-005        | 2.5000e-004        | 0.0000        | 0.8634         | 0.8634         | 5.0000e-005        | 0.0000        | 0.8644         |
| <b>Total</b> | <b>8.8800e-003</b> | <b>0.1565</b> | <b>0.0995</b> | <b>4.1000e-004</b> | <b>0.0103</b> | <b>2.3500e-003</b> | <b>0.0127</b> | <b>2.8100e-003</b> | <b>2.1600e-003</b> | <b>4.9700e-003</b> | <b>0.0000</b> | <b>37.4938</b> | <b>37.4938</b> | <b>3.1000e-004</b> | <b>0.0000</b> | <b>37.5002</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     | 0.2365        | 2.0378        | 1.3662        | 1.9200e-003        |               | 0.1444        | 0.1444        |                | 0.1350        | 0.1350        | 0.0000        | 175.5780        | 175.5780        | 0.0458        | 0.0000        | 176.5403        |
| <b>Total</b> | <b>0.2365</b> | <b>2.0378</b> | <b>1.3662</b> | <b>1.9200e-003</b> |               | <b>0.1444</b> | <b>0.1444</b> |                | <b>0.1350</b> | <b>0.1350</b> | <b>0.0000</b> | <b>175.5780</b> | <b>175.5780</b> | <b>0.0458</b> | <b>0.0000</b> | <b>176.5403</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       | 0.0152        | 0.1548        | 0.1987        | 3.7000e-004        | 0.0181        | 2.4100e-003        | 0.0205        | 4.8600e-003    | 2.2200e-003        | 7.0800e-003   | 0.0000        | 33.6310        | 33.6310        | 2.5000e-004        | 0.0000        | 33.6361        |
| Worker       | 0.0285        | 0.0278        | 0.2976        | 6.0000e-004        | 0.0890        | 4.4000e-004        | 0.0895        | 0.0228         | 4.1000e-004        | 0.0232        | 0.0000        | 45.5838        | 45.5838        | 2.5400e-003        | 0.0000        | 45.6371        |
| <b>Total</b> | <b>0.0436</b> | <b>0.1826</b> | <b>0.4963</b> | <b>9.7000e-004</b> | <b>0.1071</b> | <b>2.8500e-003</b> | <b>0.1100</b> | <b>0.0277</b>  | <b>2.6300e-003</b> | <b>0.0303</b> | <b>0.0000</b> | <b>79.2148</b> | <b>79.2148</b> | <b>2.7900e-003</b> | <b>0.0000</b> | <b>79.2732</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     | 0.2365        | 2.0378        | 1.3662        | 1.9200e-003        |               | 0.1444        | 0.1444        |                | 0.1350        | 0.1350        | 0.0000        | 175.5778        | 175.5778        | 0.0458        | 0.0000        | 176.5400        |
| <b>Total</b> | <b>0.2365</b> | <b>2.0378</b> | <b>1.3662</b> | <b>1.9200e-003</b> |               | <b>0.1444</b> | <b>0.1444</b> |                | <b>0.1350</b> | <b>0.1350</b> | <b>0.0000</b> | <b>175.5778</b> | <b>175.5778</b> | <b>0.0458</b> | <b>0.0000</b> | <b>176.5400</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       | 0.0152        | 0.1548        | 0.1987        | 3.7000e-004        | 0.0181        | 2.4100e-003        | 0.0205        | 4.8600e-003    | 2.2200e-003        | 7.0800e-003   | 0.0000        | 33.6310        | 33.6310        | 2.5000e-004        | 0.0000        | 33.6361        |
| Worker       | 0.0285        | 0.0278        | 0.2976        | 6.0000e-004        | 0.0890        | 4.4000e-004        | 0.0895        | 0.0228         | 4.1000e-004        | 0.0232        | 0.0000        | 45.5838        | 45.5838        | 2.5400e-003        | 0.0000        | 45.6371        |
| <b>Total</b> | <b>0.0436</b> | <b>0.1826</b> | <b>0.4963</b> | <b>9.7000e-004</b> | <b>0.1071</b> | <b>2.8500e-003</b> | <b>0.1100</b> | <b>0.0277</b>  | <b>2.6300e-003</b> | <b>0.0303</b> | <b>0.0000</b> | <b>79.2148</b> | <b>79.2148</b> | <b>2.7900e-003</b> | <b>0.0000</b> | <b>79.2732</b> |

### 3.5 Building Construction - 2017

#### 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     | 0.3836        | 3.3536        | 2.3803        | 3.4100e-003        |               | 0.2323        | 0.2323        |                | 0.2170        | 0.2170        | 0.0000        | 307.3877        | 307.3877        | 0.0801        | 0.0000        | 309.0700        |
| <b>Total</b> | <b>0.3836</b> | <b>3.3536</b> | <b>2.3803</b> | <b>3.4100e-003</b> |               | <b>0.2323</b> | <b>0.2323</b> |                | <b>0.2170</b> | <b>0.2170</b> | <b>0.0000</b> | <b>307.3877</b> | <b>307.3877</b> | <b>0.0801</b> | <b>0.0000</b> | <b>309.0700</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       | 0.0246        | 0.2497        | 0.3338        | 6.6000e-004        | 0.0321        | 3.8200e-003        | 0.0359        | 8.6200e-003    | 3.5100e-003        | 0.0121        | 0.0000        | 58.6533         | 58.6533         | 4.2000e-004        | 0.0000        | 58.6622         |
| Worker       | 0.0459        | 0.0445        | 0.4761        | 1.0600e-003        | 0.1578        | 7.5000e-004        | 0.1586        | 0.0405         | 7.0000e-004        | 0.0412        | 0.0000        | 77.7078         | 77.7078         | 4.1400e-003        | 0.0000        | 77.7948         |
| <b>Total</b> | <b>0.0705</b> | <b>0.2942</b> | <b>0.8099</b> | <b>1.7200e-003</b> | <b>0.1899</b> | <b>4.5700e-003</b> | <b>0.1945</b> | <b>0.0491</b>  | <b>4.2100e-003</b> | <b>0.0533</b> | <b>0.0000</b> | <b>136.3611</b> | <b>136.3611</b> | <b>4.5600e-003</b> | <b>0.0000</b> | <b>136.4569</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     | 0.3836        | 3.3536        | 2.3803        | 3.4100e-003        |               | 0.2323        | 0.2323        |                | 0.2170        | 0.2170        | 0.0000        | 307.3874        | 307.3874        | 0.0801        | 0.0000        | 309.0696        |
| <b>Total</b> | <b>0.3836</b> | <b>3.3536</b> | <b>2.3803</b> | <b>3.4100e-003</b> |               | <b>0.2323</b> | <b>0.2323</b> |                | <b>0.2170</b> | <b>0.2170</b> | <b>0.0000</b> | <b>307.3874</b> | <b>307.3874</b> | <b>0.0801</b> | <b>0.0000</b> | <b>309.0696</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       | 0.0246        | 0.2497        | 0.3338        | 6.6000e-004        | 0.0321        | 3.8200e-003        | 0.0359        | 8.6200e-003    | 3.5100e-003        | 0.0121        | 0.0000        | 58.6533         | 58.6533         | 4.2000e-004        | 0.0000        | 58.6622         |
| Worker       | 0.0459        | 0.0445        | 0.4761        | 1.0600e-003        | 0.1578        | 7.5000e-004        | 0.1586        | 0.0405         | 7.0000e-004        | 0.0412        | 0.0000        | 77.7078         | 77.7078         | 4.1400e-003        | 0.0000        | 77.7948         |
| <b>Total</b> | <b>0.0705</b> | <b>0.2942</b> | <b>0.8099</b> | <b>1.7200e-003</b> | <b>0.1899</b> | <b>4.5700e-003</b> | <b>0.1945</b> | <b>0.0491</b>  | <b>4.2100e-003</b> | <b>0.0533</b> | <b>0.0000</b> | <b>136.3611</b> | <b>136.3611</b> | <b>4.5600e-003</b> | <b>0.0000</b> | <b>136.4569</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     | 0.0175        | 0.1731        | 0.0914        | 1.2000e-004        |               | 0.0107        | 0.0107        |                | 9.8100e-003        | 9.8100e-003        | 0.0000        | 11.0390        | 11.0390        | 3.3300e-003        | 0.0000        | 11.1089        |
| 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>0.0175</b> | <b>0.1731</b> | <b>0.0914</b> | <b>1.2000e-004</b> |               | <b>0.0107</b> | <b>0.0107</b> |                | <b>9.8100e-003</b> | <b>9.8100e-003</b> | <b>0.0000</b> | <b>11.0390</b> | <b>11.0390</b> | <b>3.3300e-003</b> | <b>0.0000</b> | <b>11.1089</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       | 3.7000e-004        | 5.4000e-004        | 5.6300e-003        | 1.0000e-005        | 1.0100e-003        | 1.0000e-005        | 1.0200e-003        | 2.7000e-004        | 1.0000e-005        | 2.8000e-004        | 0.0000        | 0.9457        | 0.9457        | 5.0000e-005        | 0.0000        | 0.9467        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>5.4000e-004</b> | <b>5.6300e-003</b> | <b>1.0000e-005</b> | <b>1.0100e-003</b> | <b>1.0000e-005</b> | <b>1.0200e-003</b> | <b>2.7000e-004</b> | <b>1.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>0.9457</b> | <b>0.9457</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.9467</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     | 0.0175        | 0.1731        | 0.0914        | 1.2000e-004        |               | 0.0107        | 0.0107        |                | 9.8100e-003        | 9.8100e-003        | 0.0000        | 11.0390        | 11.0390        | 3.3300e-003        | 0.0000        | 11.1089        |
| 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>0.0175</b> | <b>0.1731</b> | <b>0.0914</b> | <b>1.2000e-004</b> |               | <b>0.0107</b> | <b>0.0107</b> |                | <b>9.8100e-003</b> | <b>9.8100e-003</b> | <b>0.0000</b> | <b>11.0390</b> | <b>11.0390</b> | <b>3.3300e-003</b> | <b>0.0000</b> | <b>11.1089</b> |

**Mitigated Construction Off-Site**

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.7000e-004        | 5.4000e-004        | 5.6300e-003        | 1.0000e-005        | 1.0100e-003        | 1.0000e-005        | 1.0200e-003        | 2.7000e-004        | 1.0000e-005        | 2.8000e-004        | 0.0000        | 0.9457        | 0.9457        | 5.0000e-005        | 0.0000        | 0.9467        |
| <b>Total</b> | <b>3.7000e-004</b> | <b>5.4000e-004</b> | <b>5.6300e-003</b> | <b>1.0000e-005</b> | <b>1.0100e-003</b> | <b>1.0000e-005</b> | <b>1.0200e-003</b> | <b>2.7000e-004</b> | <b>1.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>0.9457</b> | <b>0.9457</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.9467</b> |

**3.7 Architectural Coating - 2017**

**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 | 2.1873        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0143        | 0.0940        | 0.0803        | 1.3000e-004        |               | 7.4500e-003        | 7.4500e-003        |                | 7.4500e-003        | 7.4500e-003        | 0.0000        | 10.9790        | 10.9790        | 1.1600e-003        | 0.0000        | 11.0033        |
| <b>Total</b>    | <b>2.2016</b> | <b>0.0940</b> | <b>0.0803</b> | <b>1.3000e-004</b> |               | <b>7.4500e-003</b> | <b>7.4500e-003</b> |                | <b>7.4500e-003</b> | <b>7.4500e-003</b> | <b>0.0000</b> | <b>10.9790</b> | <b>10.9790</b> | <b>1.1600e-003</b> | <b>0.0000</b> | <b>11.0033</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       | 2.4700e-003        | 3.6600e-003        | 0.0380        | 9.0000e-005        | 7.5500e-003        | 6.0000e-005        | 7.6100e-003        | 2.0000e-003        | 6.0000e-005        | 2.0600e-003        | 0.0000        | 6.8005        | 6.8005        | 3.5000e-004        | 0.0000        | 6.8078        |
| <b>Total</b> | <b>2.4700e-003</b> | <b>3.6600e-003</b> | <b>0.0380</b> | <b>9.0000e-005</b> | <b>7.5500e-003</b> | <b>6.0000e-005</b> | <b>7.6100e-003</b> | <b>2.0000e-003</b> | <b>6.0000e-005</b> | <b>2.0600e-003</b> | <b>0.0000</b> | <b>6.8005</b> | <b>6.8005</b> | <b>3.5000e-004</b> | <b>0.0000</b> | <b>6.8078</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 | 2.1873        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0143        | 0.0940        | 0.0803        | 1.3000e-004        |               | 7.4500e-003        | 7.4500e-003        |                | 7.4500e-003        | 7.4500e-003        | 0.0000        | 10.9790        | 10.9790        | 1.1600e-003        | 0.0000        | 11.0033        |
| <b>Total</b>    | <b>2.2016</b> | <b>0.0940</b> | <b>0.0803</b> | <b>1.3000e-004</b> |               | <b>7.4500e-003</b> | <b>7.4500e-003</b> |                | <b>7.4500e-003</b> | <b>7.4500e-003</b> | <b>0.0000</b> | <b>10.9790</b> | <b>10.9790</b> | <b>1.1600e-003</b> | <b>0.0000</b> | <b>11.0033</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       | 2.4700e-003        | 3.6600e-003        | 0.0380        | 9.0000e-005        | 7.5500e-003        | 6.0000e-005        | 7.6100e-003        | 2.0000e-003        | 6.0000e-005        | 2.0600e-003        | 0.0000        | 6.8005        | 6.8005        | 3.5000e-004        | 0.0000        | 6.8078        |
| <b>Total</b> | <b>2.4700e-003</b> | <b>3.6600e-003</b> | <b>0.0380</b> | <b>9.0000e-005</b> | <b>7.5500e-003</b> | <b>6.0000e-005</b> | <b>7.6100e-003</b> | <b>2.0000e-003</b> | <b>6.0000e-005</b> | <b>2.0600e-003</b> | <b>0.0000</b> | <b>6.8005</b> | <b>6.8005</b> | <b>3.5000e-004</b> | <b>0.0000</b> | <b>6.8078</b> |

### 3.8 Paving 2 - 2017

#### 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     | 9.2600e-003        | 0.0991        | 0.0717        | 1.1000e-004        |               | 5.4800e-003        | 5.4800e-003        |                | 5.0400e-003        | 5.0400e-003        | 0.0000        | 10.1290        | 10.1290        | 3.1000e-003        | 0.0000        | 10.1942        |
| 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>9.2600e-003</b> | <b>0.0991</b> | <b>0.0717</b> | <b>1.1000e-004</b> |               | <b>5.4800e-003</b> | <b>5.4800e-003</b> |                | <b>5.0400e-003</b> | <b>5.0400e-003</b> | <b>0.0000</b> | <b>10.1290</b> | <b>10.1290</b> | <b>3.1000e-003</b> | <b>0.0000</b> | <b>10.1942</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       | 3.3000e-004        | 4.9000e-004        | 5.0800e-003        | 1.0000e-005        | 1.0100e-003        | 1.0000e-005        | 1.0200e-003        | 2.7000e-004        | 1.0000e-005        | 2.8000e-004        | 0.0000        | 0.9094        | 0.9094        | 5.0000e-005        | 0.0000        | 0.9104        |
| <b>Total</b> | <b>3.3000e-004</b> | <b>4.9000e-004</b> | <b>5.0800e-003</b> | <b>1.0000e-005</b> | <b>1.0100e-003</b> | <b>1.0000e-005</b> | <b>1.0200e-003</b> | <b>2.7000e-004</b> | <b>1.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>0.9094</b> | <b>0.9094</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.9104</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     | 9.2600e-003        | 0.0991        | 0.0717        | 1.1000e-004        |               | 5.4800e-003        | 5.4800e-003        |                | 5.0400e-003        | 5.0400e-003        | 0.0000        | 10.1290        | 10.1290        | 3.1000e-003        | 0.0000        | 10.1942        |
| 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>9.2600e-003</b> | <b>0.0991</b> | <b>0.0717</b> | <b>1.1000e-004</b> |               | <b>5.4800e-003</b> | <b>5.4800e-003</b> |                | <b>5.0400e-003</b> | <b>5.0400e-003</b> | <b>0.0000</b> | <b>10.1290</b> | <b>10.1290</b> | <b>3.1000e-003</b> | <b>0.0000</b> | <b>10.1942</b> |

## Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 3.3000e-004        | 4.9000e-004        | 5.0800e-003        | 1.0000e-005        | 1.0100e-003        | 1.0000e-005        | 1.0200e-003        | 2.7000e-004        | 1.0000e-005        | 2.8000e-004        | 0.0000        | 0.9094        | 0.9094        | 5.0000e-005        | 0.0000        | 0.9104        |
| <b>Total</b> | <b>3.3000e-004</b> | <b>4.9000e-004</b> | <b>5.0800e-003</b> | <b>1.0000e-005</b> | <b>1.0100e-003</b> | <b>1.0000e-005</b> | <b>1.0200e-003</b> | <b>2.7000e-004</b> | <b>1.0000e-005</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>0.9094</b> | <b>0.9094</b> | <b>5.0000e-005</b> | <b>0.0000</b> | <b>0.9104</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|-------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 0.5764  | 1.5128 | 5.9878 | 0.0136 | 0.9234        | 0.0200       | 0.9434     | 0.2471         | 0.0184        | 0.2655      | 0.0000   | 1,054.0596 | 1,054.0596 | 0.0423 | 0.0000 | 1,054.9472 |
| Unmitigated | 0.5764  | 1.5128 | 5.9878 | 0.0136 | 0.9234        | 0.0200       | 0.9434     | 0.2471         | 0.0184        | 0.2655      | 0.0000   | 1,054.0596 | 1,054.0596 | 0.0423 | 0.0000 | 1,054.9472 |

## 4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Hotel    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |
| Total    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |

## 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 |
| Hotel    | 16.60      | 8.40       | 6.90        | 19.40     | 61.60      | 19.00       | 58             | 38       | 4       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.513125 | 0.060112 | 0.180262 | 0.139218 | 0.042100 | 0.006630 | 0.016061 | 0.030999 | 0.001941 | 0.002506 | 0.004348 | 0.000594 | 0.002104 |

## 5.0 Energy Detail

### 4.4 Fleet Mix

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| Category                | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
|                         | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |             |             |          |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 545.0301  | 545.0301  | 0.0251      | 5.1800e-003 | 547.1631 |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 545.0301  | 545.0301  | 0.0251      | 5.1800e-003 | 547.1631 |
| NaturalGas Mitigated    | 0.0364  | 0.3310 | 0.2780 | 1.9900e-003 |               | 0.0252       | 0.0252     |                | 0.0252        | 0.0252      | 0.0000   | 360.3095  | 360.3095  | 6.9100e-003 | 6.6100e-003 | 362.5023 |
| NaturalGas Unmitigated  | 0.0364  | 0.3310 | 0.2780 | 1.9900e-003 |               | 0.0252       | 0.0252     |                | 0.0252        | 0.0252      | 0.0000   | 360.3095  | 360.3095  | 6.9100e-003 | 6.6100e-003 | 362.5023 |

## 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         |                 |                 |                    |                    |                 |
| Parking Lot  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| Hotel        | 6.75195e+006   | 0.0364        | 0.3310        | 0.2780        | 1.9900e-003        |               | 0.0252        | 0.0252        |                | 0.0252        | 0.0252        | 0.0000        | 360.3095        | 360.3095        | 6.9100e-003        | 6.6100e-003        | 362.5023        |
| <b>Total</b> |                | <b>0.0364</b> | <b>0.3310</b> | <b>0.2780</b> | <b>1.9900e-003</b> |               | <b>0.0252</b> | <b>0.0252</b> |                | <b>0.0252</b> | <b>0.0252</b> | <b>0.0000</b> | <b>360.3095</b> | <b>360.3095</b> | <b>6.9100e-003</b> | <b>6.6100e-003</b> | <b>362.5023</b> |

### Mitigated

|              | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
|--------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use     | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                 |                 |                    |                    |                 |
| Hotel        | 6.75195e+006   | 0.0364        | 0.3310        | 0.2780        | 1.9900e-003        |               | 0.0252        | 0.0252        |                | 0.0252        | 0.0252        | 0.0000        | 360.3095        | 360.3095        | 6.9100e-003        | 6.6100e-003        | 362.5023        |
| Parking Lot  | 0              | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| <b>Total</b> |                | <b>0.0364</b> | <b>0.3310</b> | <b>0.2780</b> | <b>1.9900e-003</b> |               | <b>0.0252</b> | <b>0.0252</b> |                | <b>0.0252</b> | <b>0.0252</b> | <b>0.0000</b> | <b>360.3095</b> | <b>360.3095</b> | <b>6.9100e-003</b> | <b>6.6100e-003</b> | <b>362.5023</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

|              | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use     | kWh/yr          | MT/yr           |               |                    |                 |
| Hotel        | 1.90459e+006    | 545.0301        | 0.0251        | 5.1800e-003        | 547.1631        |
| Parking Lot  | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| <b>Total</b> |                 | <b>545.0301</b> | <b>0.0251</b> | <b>5.1800e-003</b> | <b>547.1631</b> |

#### Mitigated

|              | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|--------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use     | kWh/yr          | MT/yr           |               |                    |                 |
| Hotel        | 1.90459e+006    | 545.0301        | 0.0251        | 5.1800e-003        | 547.1631        |
| Parking Lot  | 0               | 0.0000          | 0.0000        | 0.0000             | 0.0000          |
| <b>Total</b> |                 | <b>545.0301</b> | <b>0.0251</b> | <b>5.1800e-003</b> | <b>547.1631</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

|             | ROG     | NOx         | CO          | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4         | N2O    | CO2e        |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category    | tons/yr |             |             |        |               |              |             |                |               |             | MT/yr    |             |             |             |        |             |
| Mitigated   | 0.9012  | 3.0000e-005 | 3.5500e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 | 0.0000   | 6.7800e-003 | 6.7800e-003 | 2.0000e-005 | 0.0000 | 7.1700e-003 |
| Unmitigated | 0.9012  | 3.0000e-005 | 3.5500e-003 | 0.0000 |               | 1.0000e-005  | 1.0000e-005 |                | 1.0000e-005   | 1.0000e-005 | 0.0000   | 6.7800e-003 | 6.7800e-003 | 2.0000e-005 | 0.0000 | 7.1700e-003 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2          | Total CO2          | CH4                | N2O           | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |                    |                    |                    |               |                    |
| Architectural Coating | 0.2187        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Consumer Products     | 0.6821        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.5500e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        | 0.0000        | 6.7800e-003        | 6.7800e-003        | 2.0000e-005        | 0.0000        | 7.1700e-003        |
| <b>Total</b>          | <b>0.9012</b> | <b>3.0000e-005</b> | <b>3.5500e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>6.7800e-003</b> | <b>6.7800e-003</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>7.1700e-003</b> |



**Mitigated**

|                       | ROG           | NOx                | CO                 | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2          | Total CO2          | CH4                | N2O           | CO2e               |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory           | tons/yr       |                    |                    |               |               |                    |                    |                |                    |                    | MT/yr         |                    |                    |                    |               |                    |
| Architectural Coating | 0.2187        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Consumer Products     | 0.6821        |                    |                    |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             |
| Landscaping           | 3.4000e-004   | 3.0000e-005        | 3.5500e-003        | 0.0000        |               | 1.0000e-005        | 1.0000e-005        |                | 1.0000e-005        | 1.0000e-005        | 0.0000        | 6.7800e-003        | 6.7800e-003        | 2.0000e-005        | 0.0000        | 7.1700e-003        |
| <b>Total</b>          | <b>0.9012</b> | <b>3.0000e-005</b> | <b>3.5500e-003</b> | <b>0.0000</b> |               | <b>1.0000e-005</b> | <b>1.0000e-005</b> |                | <b>1.0000e-005</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>6.7800e-003</b> | <b>6.7800e-003</b> | <b>2.0000e-005</b> | <b>0.0000</b> | <b>7.1700e-003</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4    | N2O         | CO2e    |
|-------------|-----------|--------|-------------|---------|
| Category    | MT/yr     |        |             |         |
| Mitigated   | 14.4989   | 0.1081 | 2.6600e-003 | 17.5930 |
| Unmitigated | 14.4989   | 0.1081 | 2.6700e-003 | 17.5946 |

## 7.2 Water by Land Use

### Unmitigated

|              | Indoor/Outdoor Use | Total CO2      | CH4           | N2O                | CO2e           |
|--------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use     | Mgal               | MT/yr          |               |                    |                |
| Hotel        | 3.29768 / 0.366409 | 14.4989        | 0.1081        | 2.6700e-003        | 17.5946        |
| <b>Total</b> |                    | <b>14.4989</b> | <b>0.1081</b> | <b>2.6700e-003</b> | <b>17.5946</b> |

### Mitigated

|              | Indoor/Outdoor Use | Total CO2      | CH4           | N2O                | CO2e           |
|--------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use     | Mgal               | MT/yr          |               |                    |                |
| Hotel        | 3.29768 / 0.366409 | 14.4989        | 0.1081        | 2.6600e-003        | 17.5930        |
| <b>Total</b> |                    | <b>14.4989</b> | <b>0.1081</b> | <b>2.6600e-003</b> | <b>17.5930</b> |

## 8.0 Waste Detail

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### 8.1 Mitigation Measures Waste

#### Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e    |
|-------------|-----------|--------|--------|---------|
|             | MT/yr     |        |        |         |
| Mitigated   | 14.4469   | 0.8538 | 0.0000 | 32.3764 |
| Unmitigated | 14.4469   | 0.8538 | 0.0000 | 32.3764 |

### 8.2 Waste by Land Use

#### Unmitigated

|              | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|----------------|----------------|---------------|---------------|----------------|
| Land Use     | tons           | MT/yr          |               |               |                |
| Hotel        | 71.17          | 14.4469        | 0.8538        | 0.0000        | 32.3764        |
| <b>Total</b> |                | <b>14.4469</b> | <b>0.8538</b> | <b>0.0000</b> | <b>32.3764</b> |

## Mitigated

|              | Waste Disposed | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|----------------|----------------|---------------|---------------|----------------|
| Land Use     | tons           | MT/yr          |               |               |                |
| Hotel        | 71.17          | 14.4469        | 0.8538        | 0.0000        | 32.3764        |
| <b>Total</b> |                | <b>14.4469</b> | <b>0.8538</b> | <b>0.0000</b> | <b>32.3764</b> |

## 9.0 Operational Offroad

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

## 10.0 Vegetation

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**Lido House Hotel**  
**South Coast Air Basin, Summer**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses   | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------|--------|--------|-------------|--------------------|------------|
| Parking Lot | 143.00 |        | 0.00        |                    | 0          |
| Hotel       | 130.00 | Room   | 4.33        | 188,760.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 31    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2017  |
| <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 - Proposed Land Uses

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Trips and VMT - Demolition Hauling Distance = 32 to reflect distance to disposal site.

Grading 2 Hauling Distance = 0.08 to reflect distance across the project site.

Demolition -

Grading - Acres disturbed split among 2 grading phases

Construction Off-road Equipment Mitigation - Mitigation Per SCAQMD Rule 403

| Table Name             | Column Name                    | Default Value | New Value |
|------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 26        |
| tblConstructionPhase   | NumDays                        | 18.00         | 86.00     |
| tblConstructionPhase   | NumDays                        | 230.00        | 305.00    |
| tblConstructionPhase   | NumDays                        | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | PhaseEndDate                   | 12/29/2016    | 5/31/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 9/29/2017     | 9/30/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 7/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 8/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 11/1/2017     | 8/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 7/3/2017      | 5/31/2017 |
| tblConstructionPhase   | PhaseStartDate                 | 9/1/2016      | 2/1/2017  |
| tblConstructionPhase   | PhaseStartDate                 | 8/1/2016      | 7/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 10/1/2017     | 8/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 6/1/2017      | 5/1/2017  |
| tblGrading             | AcresOfGrading                 | 10.50         | 2.00      |
| tblGrading             | AcresOfGrading                 | 10.50         | 0.00      |
| tblGrading             | AcresOfGrading                 | 21.00         | 2.00      |
| tblGrading             | MaterialExported               | 0.00          | 11,069.00 |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |

|                           |                                     |       |       |
|---------------------------|-------------------------------------|-------|-------|
| tblGrading                | MaterialMoistureContentBulldozing   | 7.90  | 0.00  |
| tblGrading                | MaterialMoistureContentTruckLoading | 12.00 | 0.00  |
| tblGrading                | MaterialSiltContent                 | 6.90  | 0.00  |
| tblGrading                | MeanVehicleSpeed                    | 7.10  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 20.00 |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblProjectCharacteristics | OperationalYear                     | 2014  | 2017  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 32.00 |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.08  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.00  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 30.00 |







### 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            | 6/1/2016   | 6/30/2016 | 5             | 22       |                   |
| 2            | Grading 2             | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 3            | Grading               | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 4            | Building Construction | Building Construction | 8/1/2016   | 9/30/2017 | 5             | 305      |                   |
| 5            | Paving                | Paving                | 8/1/2016   | 8/31/2016 | 5             | 23       |                   |
| 6            | Architectural Coating | Architectural Coating | 2/1/2017   | 5/31/2017 | 5             | 86       |                   |
| 7            | Paving 2              | Paving                | 5/1/2017   | 5/31/2017 | 5             | 23       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,140; Non-Residential Outdoor: 94,380 (Architectural Coating –

#### OffRoad Equipment

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Bore/Drill Rigs           | 1      | 2.00        | 205         | 0.50        |
| Demolition | Concrete/Industrial Saws  | 20     | 4.00        | 81          | 0.73        |
| Demolition | Crawler Tractors          | 2      | 4.00        | 208         | 0.43        |
| Demolition | Excavators                | 0      | 4.00        | 162         | 0.38        |
| Demolition | Off-Highway Tractors      | 1      | 4.00        | 122         | 0.44        |
| Demolition | Rough Terrain Forklifts   | 1      | 4.00        | 100         | 0.40        |
| Demolition | Rubber Tired Dozers       | 0      | 4.00        | 255         | 0.40        |
| Demolition | Rubber Tired Loaders      | 2      | 4.00        | 199         | 0.36        |
| Demolition | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Grading 2  | Excavators                | 2      | 8.00        | 162         | 0.38        |

|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Grading 2             | Graders                   | 1 | 8.00 | 174 | 0.41 |
| Grading 2             | Rubber Tired Dozers       | 1 | 8.00 | 255 | 0.40 |
| Grading 2             | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading               | Excavators                | 1 | 8.00 | 162 | 0.38 |
| Grading               | Graders                   | 2 | 8.00 | 174 | 0.41 |
| Grading               | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading               | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Building Construction | Cranes                    | 1 | 7.00 | 226 | 0.29 |
| Building Construction | Forklifts                 | 3 | 8.00 | 89  | 0.20 |
| Building Construction | Generator Sets            | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Welders                   | 1 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving                | Graders                   | 1 | 8.00 | 174 | 0.41 |
| Paving                | Pavers                    | 0 | 8.00 | 125 | 0.42 |
| Paving                | Paving Equipment          | 0 | 6.00 | 130 | 0.36 |
| Paving                | Rollers                   | 2 | 6.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78  | 0.48 |
| Paving 2              | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving 2              | Graders                   | 0 | 8.00 | 174 | 0.41 |
| Paving 2              | Pavers                    | 1 | 8.00 | 125 | 0.42 |
| Paving 2              | Paving Equipment          | 1 | 6.00 | 130 | 0.36 |
| Paving 2              | Rollers                   | 1 | 6.00 | 80  | 0.38 |
| Paving 2              | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 28                      | 70.00              | 0.00               | 276.00              | 14.70              | 6.90               | 32.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 14.70              | 6.90               | 0.08                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 3                       | 8.00               | 0.00               | 730.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 31.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 16.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving 2              | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved 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      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.7115        | 0.0000        | 2.7115        | 0.4105         | 0.0000        | 0.4105        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 8.2193        | 68.6518        | 46.8798        | 0.0842        |               | 4.4084        | 4.4084        |                | 4.3336        | 4.3336        |          | 8,171.2949        | 8,171.2949        | 1.2506        |     | 8,197.5584        |
| <b>Total</b>  | <b>8.2193</b> | <b>68.6518</b> | <b>46.8798</b> | <b>0.0842</b> | <b>2.7115</b> | <b>4.4084</b> | <b>7.1199</b> | <b>0.4105</b>  | <b>4.3336</b> | <b>4.7441</b> |          | <b>8,171.2949</b> | <b>8,171.2949</b> | <b>1.2506</b> |     | <b>8,197.5584</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      | 0.2987        | 5.4021        | 3.0393        | 0.0147        | 0.3495        | 0.0856        | 0.4351        | 0.0957         | 0.0787        | 0.1744        |          | 1,479.8357        | 1,479.8357        | 0.0103        |     | 1,480.0525        |
| 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       | 0.2914        | 0.3645        | 4.5404        | 9.9100e-003   | 0.7824        | 6.5400e-003   | 0.7890        | 0.2075         | 6.0100e-003   | 0.2135        |          | 832.7078          | 832.7078          | 0.0427        |     | 833.6042          |
| <b>Total</b> | <b>0.5901</b> | <b>5.7666</b> | <b>7.5797</b> | <b>0.0246</b> | <b>1.1319</b> | <b>0.0921</b> | <b>1.2240</b> | <b>0.3032</b>  | <b>0.0847</b> | <b>0.3879</b> |          | <b>2,312.5435</b> | <b>2,312.5435</b> | <b>0.0530</b> |     | <b>2,313.6568</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.5759        | 0.0000        | 2.5759        | 0.3900         | 0.0000        | 0.3900        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 8.2193        | 68.6518        | 46.8798        | 0.0842        |               | 4.4084        | 4.4084        |                | 4.3336        | 4.3336        | 0.0000        | 8,171.2949        | 8,171.2949        | 1.2506        |     | 8,197.5584        |
| <b>Total</b>  | <b>8.2193</b> | <b>68.6518</b> | <b>46.8798</b> | <b>0.0842</b> | <b>2.5759</b> | <b>4.4084</b> | <b>6.9843</b> | <b>0.3900</b>  | <b>4.3336</b> | <b>4.7236</b> | <b>0.0000</b> | <b>8,171.2949</b> | <b>8,171.2949</b> | <b>1.2506</b> |     | <b>8,197.5584</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      | 0.2987        | 5.4021        | 3.0393        | 0.0147        | 0.3495        | 0.0856        | 0.4351        | 0.0957         | 0.0787        | 0.1744        |          | 1,479.8357        | 1,479.8357        | 0.0103        |     | 1,480.0525        |
| 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       | 0.2914        | 0.3645        | 4.5404        | 9.9100e-003   | 0.7824        | 6.5400e-003   | 0.7890        | 0.2075         | 6.0100e-003   | 0.2135        |          | 832.7078          | 832.7078          | 0.0427        |     | 833.6042          |
| <b>Total</b> | <b>0.5901</b> | <b>5.7666</b> | <b>7.5797</b> | <b>0.0246</b> | <b>1.1319</b> | <b>0.0921</b> | <b>1.2240</b> | <b>0.3032</b>  | <b>0.0847</b> | <b>0.3879</b> |          | <b>2,312.5435</b> | <b>2,312.5435</b> | <b>0.0530</b> |     | <b>2,313.6568</b> |

### **3.3 Grading 2 - 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 |               |                |                |               | 6.1231        | 0.0000        | 6.1231        | 3.3211         | 0.0000        | 3.3211        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.0334        | 33.1123        | 22.2693        | 0.0257        |               | 1.6646        | 1.6646        |                | 1.5314        | 1.5314        |          | 2,672.6752        | 2,672.6752        | 0.8062        |     | 2,689.6048        |
| <b>Total</b>  | <b>3.0334</b> | <b>33.1123</b> | <b>22.2693</b> | <b>0.0257</b> | <b>6.1231</b> | <b>1.6646</b> | <b>7.7877</b> | <b>3.3211</b>  | <b>1.5314</b> | <b>4.8525</b> |          | <b>2,672.6752</b> | <b>2,672.6752</b> | <b>0.8062</b> |     | <b>2,689.6048</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      | 0.6568        | 2.1762        | 12.0096        | 2.2200e-003        | 8.5600e-003   | 6.1200e-003        | 0.0147        | 2.4600e-003    | 5.5700e-003        | 8.0200e-003   |          | 204.3175        | 204.3175        | 5.4000e-003   |     | 204.4309        |
| 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       | 0.0680        | 0.0568        | 0.7070         | 1.4400e-003        | 0.2091        | 1.0200e-003        | 0.2101        | 0.0535         | 9.3000e-004        | 0.0545        |          | 121.3347        | 121.3347        | 6.4400e-003   |     | 121.4699        |
| <b>Total</b> | <b>0.7248</b> | <b>2.2331</b> | <b>12.7166</b> | <b>3.6600e-003</b> | <b>0.2176</b> | <b>7.1400e-003</b> | <b>0.2248</b> | <b>0.0560</b>  | <b>6.5000e-003</b> | <b>0.0625</b> |          | <b>325.6522</b> | <b>325.6522</b> | <b>0.0118</b> |     | <b>325.9007</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 |               |                |                |               | 5.8169        | 0.0000        | 5.8169        | 3.1551         | 0.0000        | 3.1551        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.0334        | 33.1123        | 22.2693        | 0.0257        |               | 1.6646        | 1.6646        |                | 1.5314        | 1.5314        | 0.0000        | 2,672.6752        | 2,672.6752        | 0.8062        |     | 2,689.6048        |
| <b>Total</b>  | <b>3.0334</b> | <b>33.1123</b> | <b>22.2693</b> | <b>0.0257</b> | <b>5.8169</b> | <b>1.6646</b> | <b>7.4815</b> | <b>3.1551</b>  | <b>1.5314</b> | <b>4.6865</b> | <b>0.0000</b> | <b>2,672.6752</b> | <b>2,672.6752</b> | <b>0.8062</b> |     | <b>2,689.6048</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      | 0.6568        | 2.1762        | 12.0096        | 2.2200e-003        | 8.5600e-003   | 6.1200e-003        | 0.0147        | 2.4600e-003    | 5.5700e-003        | 8.0200e-003   |          | 204.3175        | 204.3175        | 5.4000e-003   |     | 204.4309        |
| 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       | 0.0680        | 0.0568        | 0.7070         | 1.4400e-003        | 0.2091        | 1.0200e-003        | 0.2101        | 0.0535         | 9.3000e-004        | 0.0545        |          | 121.3347        | 121.3347        | 6.4400e-003   |     | 121.4699        |
| <b>Total</b> | <b>0.7248</b> | <b>2.2331</b> | <b>12.7166</b> | <b>3.6600e-003</b> | <b>0.2176</b> | <b>7.1400e-003</b> | <b>0.2248</b> | <b>0.0560</b>  | <b>6.5000e-003</b> | <b>0.0625</b> |          | <b>325.6522</b> | <b>325.6522</b> | <b>0.0118</b> |     | <b>325.9007</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 |               |                |                |               | 0.1010        | 0.0000        | 0.1010        | 0.0109         | 0.0000        | 0.0109        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.4257        | 25.1906        | 13.2834        | 0.0178        |               | 1.3843        | 1.3843        |                | 1.2735        | 1.2735        |          | 1,848.7319        | 1,848.7319        | 0.5576        |     | 1,860.4424        |
| <b>Total</b>  | <b>2.4257</b> | <b>25.1906</b> | <b>13.2834</b> | <b>0.0178</b> | <b>0.1010</b> | <b>1.3843</b> | <b>1.4853</b> | <b>0.0109</b>  | <b>1.2735</b> | <b>1.2844</b> |          | <b>1,848.7319</b> | <b>1,848.7319</b> | <b>0.5576</b> |     | <b>1,860.4424</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      | 0.7895        | 14.0773        | 8.1452        | 0.0382        | 0.9080        | 0.2224        | 1.1303        | 0.2486         | 0.2046        | 0.4531        |          | 3,848.1095        | 3,848.1095        | 0.0269        |     | 3,848.6750        |
| 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       | 0.0333        | 0.0417         | 0.5189        | 1.1300e-003   | 0.0894        | 7.5000e-004   | 0.0902        | 0.0237         | 6.9000e-004   | 0.0244        |          | 95.1666           | 95.1666           | 4.8800e-003   |     | 95.2691           |
| <b>Total</b> | <b>0.8228</b> | <b>14.1190</b> | <b>8.6641</b> | <b>0.0393</b> | <b>0.9974</b> | <b>0.2231</b> | <b>1.2205</b> | <b>0.2723</b>  | <b>0.2052</b> | <b>0.4775</b> |          | <b>3,943.2761</b> | <b>3,943.2761</b> | <b>0.0318</b> |     | <b>3,943.9440</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 |               |                |                |               | 0.0960        | 0.0000        | 0.0960        | 0.0104         | 0.0000        | 0.0104        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.4257        | 25.1906        | 13.2834        | 0.0178        |               | 1.3843        | 1.3843        |                | 1.2735        | 1.2735        | 0.0000        | 1,848.7319        | 1,848.7319        | 0.5576        |     | 1,860.4424        |
| <b>Total</b>  | <b>2.4257</b> | <b>25.1906</b> | <b>13.2834</b> | <b>0.0178</b> | <b>0.0960</b> | <b>1.3843</b> | <b>1.4802</b> | <b>0.0104</b>  | <b>1.2735</b> | <b>1.2839</b> | <b>0.0000</b> | <b>1,848.7319</b> | <b>1,848.7319</b> | <b>0.5576</b> |     | <b>1,860.4424</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      | 0.7895        | 14.0773        | 8.1452        | 0.0382        | 0.9080        | 0.2224        | 1.1303        | 0.2486         | 0.2046        | 0.4531        |          | 3,848.1095        | 3,848.1095        | 0.0269        |     |      | 3,848.6750        |
| 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       | 0.0333        | 0.0417         | 0.5189        | 1.1300e-003   | 0.0894        | 7.5000e-004   | 0.0902        | 0.0237         | 6.9000e-004   | 0.0244        |          | 95.1666           | 95.1666           | 4.8800e-003   |     |      | 95.2691           |
| <b>Total</b> | <b>0.8228</b> | <b>14.1190</b> | <b>8.6641</b> | <b>0.0393</b> | <b>0.9974</b> | <b>0.2231</b> | <b>1.2205</b> | <b>0.2723</b>  | <b>0.2052</b> | <b>0.4775</b> |          | <b>3,943.2761</b> | <b>3,943.2761</b> | <b>0.0318</b> |     |      | <b>3,943.9440</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     | 4.3002        | 37.0509        | 24.8398        | 0.0350        |               | 2.6253        | 2.6253        |                | 2.4537        | 2.4537        |          | 3,518.9393        | 3,518.9393        | 0.9183        |     |      | 3,538.2239        |
| <b>Total</b> | <b>4.3002</b> | <b>37.0509</b> | <b>24.8398</b> | <b>0.0350</b> |               | <b>2.6253</b> | <b>2.6253</b> |                | <b>2.4537</b> | <b>2.4537</b> |          | <b>3,518.9393</b> | <b>3,518.9393</b> | <b>0.9183</b> |     |      | <b>3,538.2239</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       | 0.2590        | 2.6922        | 3.0921        | 6.7500e-003   | 0.3351        | 0.0437        | 0.3789        | 0.0899         | 0.0402        | 0.1301        |          | 676.4136          | 676.4136          | 4.8500e-003   |     | 676.5156          |
| Worker       | 0.5374        | 0.4490        | 5.5852        | 0.0114        | 1.6515        | 8.0200e-003   | 1.6595        | 0.4229         | 7.3700e-003   | 0.4303        |          | 958.5439          | 958.5439          | 0.0509        |     | 959.6118          |
| <b>Total</b> | <b>0.7963</b> | <b>3.1412</b> | <b>8.6773</b> | <b>0.0182</b> | <b>1.9866</b> | <b>0.0517</b> | <b>2.0384</b> | <b>0.5128</b>  | <b>0.0476</b> | <b>0.5604</b> |          | <b>1,634.9575</b> | <b>1,634.9575</b> | <b>0.0557</b> |     | <b>1,636.1274</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     | 4.3002        | 37.0509        | 24.8398        | 0.0350        |               | 2.6253        | 2.6253        |                | 2.4537        | 2.4537        | 0.0000        | 3,518.9393        | 3,518.9393        | 0.9183        |     | 3,538.2239        |
| <b>Total</b> | <b>4.3002</b> | <b>37.0509</b> | <b>24.8398</b> | <b>0.0350</b> |               | <b>2.6253</b> | <b>2.6253</b> |                | <b>2.4537</b> | <b>2.4537</b> | <b>0.0000</b> | <b>3,518.9393</b> | <b>3,518.9393</b> | <b>0.9183</b> |     | <b>3,538.2239</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       | 0.2590        | 2.6922        | 3.0921        | 6.7500e-003   | 0.3351        | 0.0437        | 0.3789        | 0.0899         | 0.0402        | 0.1301        |          | 676.4136          | 676.4136          | 4.8500e-003   |     | 676.5156          |
| Worker       | 0.5374        | 0.4490        | 5.5852        | 0.0114        | 1.6515        | 8.0200e-003   | 1.6595        | 0.4229         | 7.3700e-003   | 0.4303        |          | 958.5439          | 958.5439          | 0.0509        |     | 959.6118          |
| <b>Total</b> | <b>0.7963</b> | <b>3.1412</b> | <b>8.6773</b> | <b>0.0182</b> | <b>1.9866</b> | <b>0.0517</b> | <b>2.0384</b> | <b>0.5128</b>  | <b>0.0476</b> | <b>0.5604</b> |          | <b>1,634.9575</b> | <b>1,634.9575</b> | <b>0.0557</b> |     | <b>1,636.1274</b> |

**3.5 Building Construction - 2017**

**Unmitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 3.9339        | 34.3958        | 24.4130        | 0.0350        |               | 2.3821        | 2.3821        |                | 2.2258        | 2.2258        |          | 3,475.2508        | 3,475.2508        | 0.9057        |     | 3,494.2701        |
| <b>Total</b> | <b>3.9339</b> | <b>34.3958</b> | <b>24.4130</b> | <b>0.0350</b> |               | <b>2.3821</b> | <b>2.3821</b> |                | <b>2.2258</b> | <b>2.2258</b> |          | <b>3,475.2508</b> | <b>3,475.2508</b> | <b>0.9057</b> |     | <b>3,494.2701</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       | 0.2374        | 2.4514        | 2.9081        | 6.7400e-003   | 0.3352        | 0.0390        | 0.3742        | 0.0899         | 0.0359        | 0.1258        |          | 665.4682          | 665.4682          | 4.6900e-003   |     | 665.5668          |
| Worker       | 0.4895        | 0.4051        | 5.0537        | 0.0114        | 1.6515        | 7.7400e-003   | 1.6592        | 0.4229         | 7.1400e-003   | 0.4301        |          | 921.8848          | 921.8848          | 0.0468        |     | 922.8684          |
| <b>Total</b> | <b>0.7269</b> | <b>2.8565</b> | <b>7.9618</b> | <b>0.0182</b> | <b>1.9867</b> | <b>0.0468</b> | <b>2.0335</b> | <b>0.5128</b>  | <b>0.0430</b> | <b>0.5559</b> |          | <b>1,587.3530</b> | <b>1,587.3530</b> | <b>0.0515</b> |     | <b>1,588.4352</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 3.9339        | 34.3958        | 24.4130        | 0.0350        |               | 2.3821        | 2.3821        |                | 2.2258        | 2.2258        | 0.0000        | 3,475.2508        | 3,475.2508        | 0.9057        |     | 3,494.2701        |
| <b>Total</b> | <b>3.9339</b> | <b>34.3958</b> | <b>24.4130</b> | <b>0.0350</b> |               | <b>2.3821</b> | <b>2.3821</b> |                | <b>2.2258</b> | <b>2.2258</b> | <b>0.0000</b> | <b>3,475.2508</b> | <b>3,475.2508</b> | <b>0.9057</b> |     | <b>3,494.2701</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       | 0.2374        | 2.4514        | 2.9081        | 6.7400e-003   | 0.3352        | 0.0390        | 0.3742        | 0.0899         | 0.0359        | 0.1258        |          | 665.4682          | 665.4682          | 4.6900e-003   |     |      | 665.5668          |
| Worker       | 0.4895        | 0.4051        | 5.0537        | 0.0114        | 1.6515        | 7.7400e-003   | 1.6592        | 0.4229         | 7.1400e-003   | 0.4301        |          | 921.8848          | 921.8848          | 0.0468        |     |      | 922.8684          |
| <b>Total</b> | <b>0.7269</b> | <b>2.8565</b> | <b>7.9618</b> | <b>0.0182</b> | <b>1.9867</b> | <b>0.0468</b> | <b>2.0335</b> | <b>0.5128</b>  | <b>0.0430</b> | <b>0.5559</b> |          | <b>1,587.3530</b> | <b>1,587.3530</b> | <b>0.0515</b> |     |      | <b>1,588.4352</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     | 1.5240        | 15.0491        | 7.9478        | 0.0102        |               | 0.9270        | 0.9270        |                | 0.8528        | 0.8528        |          | 1,058.1238        | 1,058.1238        | 0.3192        |     |      | 1,064.8264        |
| Paving       | 0.0000        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     |      | 0.0000            |
| <b>Total</b> | <b>1.5240</b> | <b>15.0491</b> | <b>7.9478</b> | <b>0.0102</b> |               | <b>0.9270</b> | <b>0.9270</b> |                | <b>0.8528</b> | <b>0.8528</b> |          | <b>1,058.1238</b> | <b>1,058.1238</b> | <b>0.3192</b> |     |      | <b>1,064.8264</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       | 0.0333        | 0.0417        | 0.5189        | 1.1300e-003        | 0.0894        | 7.5000e-004        | 0.0902        | 0.0237         | 6.9000e-004        | 0.0244        |          | 95.1666        | 95.1666        | 4.8800e-003        |     | 95.2691        |
| <b>Total</b> | <b>0.0333</b> | <b>0.0417</b> | <b>0.5189</b> | <b>1.1300e-003</b> | <b>0.0894</b> | <b>7.5000e-004</b> | <b>0.0902</b> | <b>0.0237</b>  | <b>6.9000e-004</b> | <b>0.0244</b> |          | <b>95.1666</b> | <b>95.1666</b> | <b>4.8800e-003</b> |     | <b>95.2691</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     | 1.5240        | 15.0491        | 7.9478        | 0.0102        |               | 0.9270        | 0.9270        |                | 0.8528        | 0.8528        | 0.0000        | 1,058.1238        | 1,058.1238        | 0.3192        |     | 1,064.8264        |
| Paving       | 0.0000        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.5240</b> | <b>15.0491</b> | <b>7.9478</b> | <b>0.0102</b> |               | <b>0.9270</b> | <b>0.9270</b> |                | <b>0.8528</b> | <b>0.8528</b> | <b>0.0000</b> | <b>1,058.1238</b> | <b>1,058.1238</b> | <b>0.3192</b> |     | <b>1,064.8264</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       | 0.0333        | 0.0417        | 0.5189        | 1.1300e-003        | 0.0894        | 7.5000e-004        | 0.0902        | 0.0237         | 6.9000e-004        | 0.0244        |          | 95.1666        | 95.1666        | 4.8800e-003        |     | 95.2691        |
| <b>Total</b> | <b>0.0333</b> | <b>0.0417</b> | <b>0.5189</b> | <b>1.1300e-003</b> | <b>0.0894</b> | <b>7.5000e-004</b> | <b>0.0902</b> | <b>0.0237</b>  | <b>6.9000e-004</b> | <b>0.0244</b> |          | <b>95.1666</b> | <b>95.1666</b> | <b>4.8800e-003</b> |     | <b>95.2691</b> |

**3.7 Architectural Coating - 2017**

**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 | 50.8664        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.3323         | 2.1850        | 1.8681        | 2.9700e-003        |               | 0.1733        | 0.1733        |                | 0.1733        | 0.1733        |          | 281.4481        | 281.4481        | 0.0297        |     | 282.0721        |
| <b>Total</b>    | <b>51.1987</b> | <b>2.1850</b> | <b>1.8681</b> | <b>2.9700e-003</b> |               | <b>0.1733</b> | <b>0.1733</b> |                | <b>0.1733</b> | <b>0.1733</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0297</b> |     | <b>282.0721</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       | 0.0599        | 0.0752        | 0.9393        | 2.2700e-003        | 0.1788        | 1.4400e-003        | 0.1803        | 0.0474         | 1.3300e-003        | 0.0488        |          | 183.0492        | 183.0492        | 9.0000e-003        |     | 183.2383        |
| <b>Total</b> | <b>0.0599</b> | <b>0.0752</b> | <b>0.9393</b> | <b>2.2700e-003</b> | <b>0.1788</b> | <b>1.4400e-003</b> | <b>0.1803</b> | <b>0.0474</b>  | <b>1.3300e-003</b> | <b>0.0488</b> |          | <b>183.0492</b> | <b>183.0492</b> | <b>9.0000e-003</b> |     | <b>183.2383</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 | 50.8664        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.3323         | 2.1850        | 1.8681        | 2.9700e-003        |               | 0.1733        | 0.1733        |                | 0.1733        | 0.1733        | 0.0000        | 281.4481        | 281.4481        | 0.0297        |     | 282.0721        |
| <b>Total</b>    | <b>51.1987</b> | <b>2.1850</b> | <b>1.8681</b> | <b>2.9700e-003</b> |               | <b>0.1733</b> | <b>0.1733</b> |                | <b>0.1733</b> | <b>0.1733</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0297</b> |     | <b>282.0721</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       | 0.0599        | 0.0752        | 0.9393        | 2.2700e-003        | 0.1788        | 1.4400e-003        | 0.1803        | 0.0474         | 1.3300e-003        | 0.0488        |          | 183.0492        | 183.0492        | 9.0000e-003        |     | 183.2383        |
| <b>Total</b> | <b>0.0599</b> | <b>0.0752</b> | <b>0.9393</b> | <b>2.2700e-003</b> | <b>0.1788</b> | <b>1.4400e-003</b> | <b>0.1803</b> | <b>0.0474</b>  | <b>1.3300e-003</b> | <b>0.0488</b> |          | <b>183.0492</b> | <b>183.0492</b> | <b>9.0000e-003</b> |     | <b>183.2383</b> |

**3.8 Paving 2 - 2017**

**Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.8053        | 8.6188        | 6.2316        | 9.4900e-003        |               | 0.4765        | 0.4765        |                | 0.4384        | 0.4384        |          | 970.9006        | 970.9006        | 0.2975        |     | 977.1477        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.8053</b> | <b>8.6188</b> | <b>6.2316</b> | <b>9.4900e-003</b> |               | <b>0.4765</b> | <b>0.4765</b> |                | <b>0.4384</b> | <b>0.4384</b> |          | <b>970.9006</b> | <b>970.9006</b> | <b>0.2975</b> |     | <b>977.1477</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       | 0.0299        | 0.0376        | 0.4696        | 1.1300e-003        | 0.0894        | 7.2000e-004        | 0.0901        | 0.0237         | 6.6000e-004        | 0.0244        |          | 91.5246        | 91.5246        | 4.5000e-003        |     | 91.6192        |
| <b>Total</b> | <b>0.0299</b> | <b>0.0376</b> | <b>0.4696</b> | <b>1.1300e-003</b> | <b>0.0894</b> | <b>7.2000e-004</b> | <b>0.0901</b> | <b>0.0237</b>  | <b>6.6000e-004</b> | <b>0.0244</b> |          | <b>91.5246</b> | <b>91.5246</b> | <b>4.5000e-003</b> |     | <b>91.6192</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Off-Road     | 0.8053        | 8.6188        | 6.2316        | 9.4900e-003        |               | 0.4765        | 0.4765        |                | 0.4384        | 0.4384        | 0.0000        | 970.9006        | 970.9006        | 0.2975        |     | 977.1477        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.8053</b> | <b>8.6188</b> | <b>6.2316</b> | <b>9.4900e-003</b> |               | <b>0.4765</b> | <b>0.4765</b> |                | <b>0.4384</b> | <b>0.4384</b> | <b>0.0000</b> | <b>970.9006</b> | <b>970.9006</b> | <b>0.2975</b> |     | <b>977.1477</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       | 0.0299        | 0.0376        | 0.4696        | 1.1300e-003        | 0.0894        | 7.2000e-004        | 0.0901        | 0.0237         | 6.6000e-004        | 0.0244        |          | 91.5246        | 91.5246        | 4.5000e-003        |     | 91.6192        |
| <b>Total</b> | <b>0.0299</b> | <b>0.0376</b> | <b>0.4696</b> | <b>1.1300e-003</b> | <b>0.0894</b> | <b>7.2000e-004</b> | <b>0.0901</b> | <b>0.0237</b>  | <b>6.6000e-004</b> | <b>0.0244</b> |          | <b>91.5246</b> | <b>91.5246</b> | <b>4.5000e-003</b> |     | <b>91.6192</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 3.3620 | 8.1010 | 33.9059 | 0.0813 | 5.3875        | 0.1144       | 5.5018     | 1.4395         | 0.1053        | 1.5447      |          | 6,915.6469 | 6,915.6469 | 0.2671 |     | 6,921.2553 |
| Unmitigated | 3.3620 | 8.1010 | 33.9059 | 0.0813 | 5.3875        | 0.1144       | 5.5018     | 1.4395         | 0.1053        | 1.5447      |          | 6,915.6469 | 6,915.6469 | 0.2671 |     | 6,921.2553 |

#### 4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Hotel    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |
| Total    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |

#### 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 |
| Hotel    | 16.60      | 8.40       | 6.90        | 19.40     | 61.60      | 19.00       | 58             | 38       | 4       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.513125 | 0.060112 | 0.180262 | 0.139218 | 0.042100 | 0.006630 | 0.016061 | 0.030999 | 0.001941 | 0.002506 | 0.004348 | 0.000594 | 0.002104 |

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

| Category               | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
|                        | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1995 | 1.8136 | 1.5234 | 0.0109 |               | 0.1378       | 0.1378     |                | 0.1378        | 0.1378      |          | 2,176.2918 | 2,176.2918 | 0.0417 | 0.0399 | 2,189.5363 |
| NaturalGas Unmitigated | 0.1995 | 1.8136 | 1.5234 | 0.0109 |               | 0.1378       | 0.1378     |                | 0.1378        | 0.1378      |          | 2,176.2918 | 2,176.2918 | 0.0417 | 0.0399 | 2,189.5363 |

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

|              | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use     | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Parking Lot  | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel        | 18498.5         | 0.1995        | 1.8136        | 1.5234        | 0.0109        |               | 0.1378        | 0.1378        |                | 0.1378        | 0.1378        |          | 2,176.2918        | 2,176.2918        | 0.0417        | 0.0399        | 2,189.5363        |
| <b>Total</b> |                 | <b>0.1995</b> | <b>1.8136</b> | <b>1.5234</b> | <b>0.0109</b> |               | <b>0.1378</b> | <b>0.1378</b> |                | <b>0.1378</b> | <b>0.1378</b> |          | <b>2,176.2918</b> | <b>2,176.2918</b> | <b>0.0417</b> | <b>0.0399</b> | <b>2,189.5363</b> |

### Mitigated

|              | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use     | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Hotel        | 18.4985         | 0.1995        | 1.8136        | 1.5234        | 0.0109        |               | 0.1378        | 0.1378        |                | 0.1378        | 0.1378        |          | 2,176.2918        | 2,176.2918        | 0.0417        | 0.0399        | 2,189.5363        |
| Parking Lot  | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b> |                 | <b>0.1995</b> | <b>1.8136</b> | <b>1.5234</b> | <b>0.0109</b> |               | <b>0.1378</b> | <b>0.1378</b> |                | <b>0.1378</b> | <b>0.1378</b> |          | <b>2,176.2918</b> | <b>2,176.2918</b> | <b>0.0417</b> | <b>0.0399</b> | <b>2,189.5363</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   | 4.9387 | 2.7000e-004 | 0.0284 | 0.0000 |               | 1.0000e-004  | 1.0000e-004 |                | 1.0000e-004   | 1.0000e-004 |          | 0.0598    | 0.0598    | 1.7000e-004 |     | 0.0632 |
| Unmitigated | 4.9387 | 2.7000e-004 | 0.0284 | 0.0000 |               | 1.0000e-004  | 1.0000e-004 |                | 1.0000e-004   | 1.0000e-004 |          | 0.0598    | 0.0598    | 1.7000e-004 |     | 0.0632 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 1.1985        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 3.7375        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 2.7400e-003   | 2.7000e-004        | 0.0284        | 0.0000        |               | 1.0000e-004        | 1.0000e-004        |                | 1.0000e-004        | 1.0000e-004        |          | 0.0598        | 0.0598        | 1.7000e-004        |     | 0.0632        |
| <b>Total</b>          | <b>4.9387</b> | <b>2.7000e-004</b> | <b>0.0284</b> | <b>0.0000</b> |               | <b>1.0000e-004</b> | <b>1.0000e-004</b> |                | <b>1.0000e-004</b> | <b>1.0000e-004</b> |          | <b>0.0598</b> | <b>0.0598</b> | <b>1.7000e-004</b> |     | <b>0.0632</b> |

**Mitigated**

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2 | Total CO2     | CH4           | N2O                | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|---------------|---------------|--------------------|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |           |               |               |                    |               |
| Architectural Coating | 1.1985        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |           | 0.0000        |               |                    | 0.0000        |
| Consumer Products     | 3.7375        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |           | 0.0000        |               |                    | 0.0000        |
| Landscaping           | 2.7400e-003   | 2.7000e-004        | 0.0284        | 0.0000        |               | 1.0000e-004        | 1.0000e-004        |                | 1.0000e-004        | 1.0000e-004        |          |           | 0.0598        | 0.0598        | 1.7000e-004        | 0.0632        |
| <b>Total</b>          | <b>4.9387</b> | <b>2.7000e-004</b> | <b>0.0284</b> | <b>0.0000</b> |               | <b>1.0000e-004</b> | <b>1.0000e-004</b> |                | <b>1.0000e-004</b> | <b>1.0000e-004</b> |          |           | <b>0.0598</b> | <b>0.0598</b> | <b>1.7000e-004</b> | <b>0.0632</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Vegetation**

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**Lido House Hotel**  
**South Coast Air Basin, Winter**

**1.0 Project Characteristics**

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**1.1 Land Usage**

| Land Uses   | Size   | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------|--------|--------|-------------|--------------------|------------|
| Parking Lot | 143.00 |        | 0.00        |                    | 0          |
| Hotel       | 130.00 | Room   | 4.33        | 188,760.00         | 0          |

**1.2 Other Project Characteristics**

|                                 |                            |                                 |       |                                  |       |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                      | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 31    |
| <b>Climate Zone</b>             | 8                          |                                 |       | <b>Operational Year</b>          | 2017  |
| <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 - Proposed Land Uses

Construction Phase - Anticipated Construction Schedule

Off-road Equipment - Default

Off-road Equipment - Default

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Off-road Equipment - Proposed Equipment

Trips and VMT - Demolition Hauling Distance = 32 to reflect distance to disposal site.

Grading 2 Hauling Distance = 0.08 to reflect distance across the project site.

Demolition -

Grading - Acres disturbed split among 2 grading phases

Construction Off-road Equipment Mitigation - Mitigation Per SCAQMD Rule 403

| Table Name             | Column Name                    | Default Value | New Value |
|------------------------|--------------------------------|---------------|-----------|
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0             | 26        |
| tblConstructionPhase   | NumDays                        | 18.00         | 86.00     |
| tblConstructionPhase   | NumDays                        | 230.00        | 305.00    |
| tblConstructionPhase   | NumDays                        | 20.00         | 22.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 8.00          | 21.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | NumDays                        | 18.00         | 23.00     |
| tblConstructionPhase   | PhaseEndDate                   | 12/29/2016    | 5/31/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 9/29/2017     | 9/30/2017 |
| tblConstructionPhase   | PhaseEndDate                   | 7/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 8/29/2016     | 7/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 11/1/2017     | 8/31/2016 |
| tblConstructionPhase   | PhaseEndDate                   | 7/3/2017      | 5/31/2017 |
| tblConstructionPhase   | PhaseStartDate                 | 9/1/2016      | 2/1/2017  |
| tblConstructionPhase   | PhaseStartDate                 | 8/1/2016      | 7/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 10/1/2017     | 8/1/2016  |
| tblConstructionPhase   | PhaseStartDate                 | 6/1/2017      | 5/1/2017  |
| tblGrading             | AcresOfGrading                 | 10.50         | 2.00      |
| tblGrading             | AcresOfGrading                 | 10.50         | 0.00      |
| tblGrading             | AcresOfGrading                 | 21.00         | 2.00      |
| tblGrading             | MaterialExported               | 0.00          | 11,069.00 |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |
| tblGrading             | MaterialImported               | 0.00          | 7,379.00  |

|                           |                                     |       |       |
|---------------------------|-------------------------------------|-------|-------|
| tblGrading                | MaterialMoistureContentBulldozing   | 7.90  | 0.00  |
| tblGrading                | MaterialMoistureContentTruckLoading | 12.00 | 0.00  |
| tblGrading                | MaterialSiltContent                 | 6.90  | 0.00  |
| tblGrading                | MeanVehicleSpeed                    | 7.10  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 20.00 |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 2.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 1.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 2.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 3.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount          | 1.00  | 0.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblOffRoadEquipment       | UsageHours                          | 8.00  | 4.00  |
| tblProjectCharacteristics | OperationalYear                     | 2014  | 2017  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 32.00 |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.08  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 0.00  |
| tblTripsAndVMT            | HaulingTripLength                   | 20.00 | 30.00 |





### 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            | 6/1/2016   | 6/30/2016 | 5             | 22       |                   |
| 2            | Grading 2             | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 3            | Grading               | Grading               | 7/1/2016   | 7/31/2016 | 5             | 21       |                   |
| 4            | Building Construction | Building Construction | 8/1/2016   | 9/30/2017 | 5             | 305      |                   |
| 5            | Paving                | Paving                | 8/1/2016   | 8/31/2016 | 5             | 23       |                   |
| 6            | Architectural Coating | Architectural Coating | 2/1/2017   | 5/31/2017 | 5             | 86       |                   |
| 7            | Paving 2              | Paving                | 5/1/2017   | 5/31/2017 | 5             | 23       |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 2

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 283,140; Non-Residential Outdoor: 94,380 (Architectural Coating –

#### OffRoad Equipment

| Phase Name | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Bore/Drill Rigs           | 1      | 2.00        | 205         | 0.50        |
| Demolition | Concrete/Industrial Saws  | 20     | 4.00        | 81          | 0.73        |
| Demolition | Crawler Tractors          | 2      | 4.00        | 208         | 0.43        |
| Demolition | Excavators                | 0      | 4.00        | 162         | 0.38        |
| Demolition | Off-Highway Tractors      | 1      | 4.00        | 122         | 0.44        |
| Demolition | Rough Terrain Forklifts   | 1      | 4.00        | 100         | 0.40        |
| Demolition | Rubber Tired Dozers       | 0      | 4.00        | 255         | 0.40        |
| Demolition | Rubber Tired Loaders      | 2      | 4.00        | 199         | 0.36        |
| Demolition | Tractors/Loaders/Backhoes | 1      | 4.00        | 97          | 0.37        |
| Grading 2  | Excavators                | 2      | 8.00        | 162         | 0.38        |
| Grading 2  | Graders                   | 1      | 8.00        | 174         | 0.41        |

|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Grading 2             | Rubber Tired Dozers       | 1 | 8.00 | 255 | 0.40 |
| Grading 2             | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading 2             | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Grading               | Excavators                | 1 | 8.00 | 162 | 0.38 |
| Grading               | Graders                   | 2 | 8.00 | 174 | 0.41 |
| Grading               | Rubber Tired Dozers       | 0 | 8.00 | 255 | 0.40 |
| Grading               | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Building Construction | Cranes                    | 1 | 7.00 | 226 | 0.29 |
| Building Construction | Forklifts                 | 3 | 8.00 | 89  | 0.20 |
| Building Construction | Generator Sets            | 1 | 8.00 | 84  | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97  | 0.37 |
| Building Construction | Welders                   | 1 | 8.00 | 46  | 0.45 |
| Paving                | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving                | Graders                   | 1 | 8.00 | 174 | 0.41 |
| Paving                | Pavers                    | 0 | 8.00 | 125 | 0.42 |
| Paving                | Paving Equipment          | 0 | 6.00 | 130 | 0.36 |
| Paving                | Rollers                   | 2 | 6.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78  | 0.48 |
| Paving 2              | Cement and Mortar Mixers  | 0 | 6.00 | 9   | 0.56 |
| Paving 2              | Graders                   | 0 | 8.00 | 174 | 0.41 |
| Paving 2              | Pavers                    | 1 | 8.00 | 125 | 0.42 |
| Paving 2              | Paving Equipment          | 1 | 6.00 | 130 | 0.36 |
| Paving 2              | Rollers                   | 1 | 6.00 | 80  | 0.38 |
| Paving 2              | Tractors/Loaders/Backhoes | 0 | 8.00 | 97  | 0.37 |

**Trips and VMT**

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 28                      | 70.00              | 0.00               | 276.00              | 14.70              | 6.90               | 32.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 14.70              | 6.90               | 0.08                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading 2             | 4                       | 10.00              | 0.00               | 1,094.00            | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 3                       | 8.00               | 0.00               | 730.00              | 14.70              | 6.90               | 30.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 31.00              | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 12                      | 79.00              | 0.00               | 0.00                | 0.00               | 0.00               | 0.00                | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 16.00              | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving 2              | 3                       | 8.00               | 0.00               | 0.00                | 14.70              | 6.90               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

Replace Ground Cover

Water Unpaved Roads

Reduce Vehicle Speed on Unpaved 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      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.7115        | 0.0000        | 2.7115        | 0.4105         | 0.0000        | 0.4105        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 8.2193        | 68.6518        | 46.8798        | 0.0842        |               | 4.4084        | 4.4084        |                | 4.3336        | 4.3336        |          | 8,171.2949        | 8,171.2949        | 1.2506        |     | 8,197.5584        |
| <b>Total</b>  | <b>8.2193</b> | <b>68.6518</b> | <b>46.8798</b> | <b>0.0842</b> | <b>2.7115</b> | <b>4.4084</b> | <b>7.1199</b> | <b>0.4105</b>  | <b>4.3336</b> | <b>4.7441</b> |          | <b>8,171.2949</b> | <b>8,171.2949</b> | <b>1.2506</b> |     | <b>8,197.5584</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      | 0.3107        | 5.6062        | 3.3906        | 0.0147        | 0.3495        | 0.0857        | 0.4352        | 0.0957         | 0.0788        | 0.1745        |          | 1,477.6189        | 1,477.6189        | 0.0104        |     | 1,477.8376        |
| 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       | 0.2979        | 0.4003        | 4.1860        | 9.2900e-003   | 0.7824        | 6.5400e-003   | 0.7890        | 0.2075         | 6.0100e-003   | 0.2135        |          | 780.9866          | 780.9866          | 0.0427        |     | 781.8831          |
| <b>Total</b> | <b>0.6086</b> | <b>6.0066</b> | <b>7.5766</b> | <b>0.0239</b> | <b>1.1319</b> | <b>0.0922</b> | <b>1.2242</b> | <b>0.3032</b>  | <b>0.0848</b> | <b>0.3880</b> |          | <b>2,258.6056</b> | <b>2,258.6056</b> | <b>0.0531</b> |     | <b>2,259.7206</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Fugitive Dust |               |                |                |               | 2.5759        | 0.0000        | 2.5759        | 0.3900         | 0.0000        | 0.3900        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 8.2193        | 68.6518        | 46.8798        | 0.0842        |               | 4.4084        | 4.4084        |                | 4.3336        | 4.3336        | 0.0000        | 8,171.2949        | 8,171.2949        | 1.2506        |     | 8,197.5584        |
| <b>Total</b>  | <b>8.2193</b> | <b>68.6518</b> | <b>46.8798</b> | <b>0.0842</b> | <b>2.5759</b> | <b>4.4084</b> | <b>6.9843</b> | <b>0.3900</b>  | <b>4.3336</b> | <b>4.7236</b> | <b>0.0000</b> | <b>8,171.2949</b> | <b>8,171.2949</b> | <b>1.2506</b> |     | <b>8,197.5584</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      | 0.3107        | 5.6062        | 3.3906        | 0.0147        | 0.3495        | 0.0857        | 0.4352        | 0.0957         | 0.0788        | 0.1745        |          | 1,477.6189        | 1,477.6189        | 0.0104        |     | 1,477.8376        |
| 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       | 0.2979        | 0.4003        | 4.1860        | 9.2900e-003   | 0.7824        | 6.5400e-003   | 0.7890        | 0.2075         | 6.0100e-003   | 0.2135        |          | 780.9866          | 780.9866          | 0.0427        |     | 781.8831          |
| <b>Total</b> | <b>0.6086</b> | <b>6.0066</b> | <b>7.5766</b> | <b>0.0239</b> | <b>1.1319</b> | <b>0.0922</b> | <b>1.2242</b> | <b>0.3032</b>  | <b>0.0848</b> | <b>0.3880</b> |          | <b>2,258.6056</b> | <b>2,258.6056</b> | <b>0.0531</b> |     | <b>2,259.7206</b> |

**3.3 Grading 2 - 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 |               |                |                |               | 6.1231        | 0.0000        | 6.1231        | 3.3211         | 0.0000        | 3.3211        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.0334        | 33.1123        | 22.2693        | 0.0257        |               | 1.6646        | 1.6646        |                | 1.5314        | 1.5314        |          | 2,672.6752        | 2,672.6752        | 0.8062        |     | 2,689.6048        |
| <b>Total</b>  | <b>3.0334</b> | <b>33.1123</b> | <b>22.2693</b> | <b>0.0257</b> | <b>6.1231</b> | <b>1.6646</b> | <b>7.7877</b> | <b>3.3211</b>  | <b>1.5314</b> | <b>4.8525</b> |          | <b>2,672.6752</b> | <b>2,672.6752</b> | <b>0.8062</b> |     | <b>2,689.6048</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      | 0.7589        | 2.1377        | 15.0258        | 2.0800e-003        | 8.5600e-003   | 7.1800e-003        | 0.0157        | 2.4600e-003    | 6.5400e-003        | 8.9900e-003   |          | 185.9069        | 185.9069        | 6.1300e-003   |     | 186.0357        |
| 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       | 0.0707        | 0.0624        | 0.6726         | 1.3600e-003        | 0.2091        | 1.0200e-003        | 0.2101        | 0.0535         | 9.3000e-004        | 0.0545        |          | 113.8960        | 113.8960        | 6.4400e-003   |     | 114.0312        |
| <b>Total</b> | <b>0.8296</b> | <b>2.2001</b> | <b>15.6983</b> | <b>3.4400e-003</b> | <b>0.2176</b> | <b>8.2000e-003</b> | <b>0.2258</b> | <b>0.0560</b>  | <b>7.4700e-003</b> | <b>0.0635</b> |          | <b>299.8029</b> | <b>299.8029</b> | <b>0.0126</b> |     | <b>300.0669</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 |               |                |                |               | 5.8169        | 0.0000        | 5.8169        | 3.1551         | 0.0000        | 3.1551        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 3.0334        | 33.1123        | 22.2693        | 0.0257        |               | 1.6646        | 1.6646        |                | 1.5314        | 1.5314        | 0.0000        | 2,672.6752        | 2,672.6752        | 0.8062        |     | 2,689.6048        |
| <b>Total</b>  | <b>3.0334</b> | <b>33.1123</b> | <b>22.2693</b> | <b>0.0257</b> | <b>5.8169</b> | <b>1.6646</b> | <b>7.4815</b> | <b>3.1551</b>  | <b>1.5314</b> | <b>4.6865</b> | <b>0.0000</b> | <b>2,672.6752</b> | <b>2,672.6752</b> | <b>0.8062</b> |     | <b>2,689.6048</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      | 0.7589        | 2.1377        | 15.0258        | 2.0800e-003        | 8.5600e-003   | 7.1800e-003        | 0.0157        | 2.4600e-003    | 6.5400e-003        | 8.9900e-003   |          | 185.9069        | 185.9069        | 6.1300e-003   |     | 186.0357        |
| 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       | 0.0707        | 0.0624        | 0.6726         | 1.3600e-003        | 0.2091        | 1.0200e-003        | 0.2101        | 0.0535         | 9.3000e-004        | 0.0545        |          | 113.8960        | 113.8960        | 6.4400e-003   |     | 114.0312        |
| <b>Total</b> | <b>0.8296</b> | <b>2.2001</b> | <b>15.6983</b> | <b>3.4400e-003</b> | <b>0.2176</b> | <b>8.2000e-003</b> | <b>0.2258</b> | <b>0.0560</b>  | <b>7.4700e-003</b> | <b>0.0635</b> |          | <b>299.8029</b> | <b>299.8029</b> | <b>0.0126</b> |     | <b>300.0669</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 |               |                |                |               | 0.1010        | 0.0000        | 0.1010        | 0.0109         | 0.0000        | 0.0109        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.4257        | 25.1906        | 13.2834        | 0.0178        |               | 1.3843        | 1.3843        |                | 1.2735        | 1.2735        |          | 1,848.7319        | 1,848.7319        | 0.5576        |     | 1,860.4424        |
| <b>Total</b>  | <b>2.4257</b> | <b>25.1906</b> | <b>13.2834</b> | <b>0.0178</b> | <b>0.1010</b> | <b>1.3843</b> | <b>1.4853</b> | <b>0.0109</b>  | <b>1.2735</b> | <b>1.2844</b> |          | <b>1,848.7319</b> | <b>1,848.7319</b> | <b>0.5576</b> |     | <b>1,860.4424</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      | 0.8229        | 14.6067        | 9.1208        | 0.0381        | 0.9080        | 0.2227        | 1.1307        | 0.2486         | 0.2049        | 0.4535        |          | 3,841.9670        | 3,841.9670        | 0.0272        |     | 3,842.5376        |
| 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       | 0.0341        | 0.0458         | 0.4784        | 1.0600e-003   | 0.0894        | 7.5000e-004   | 0.0902        | 0.0237         | 6.9000e-004   | 0.0244        |          | 89.2556           | 89.2556           | 4.8800e-003   |     | 89.3581           |
| <b>Total</b> | <b>0.8569</b> | <b>14.6525</b> | <b>9.5992</b> | <b>0.0392</b> | <b>0.9974</b> | <b>0.2235</b> | <b>1.2209</b> | <b>0.2723</b>  | <b>0.2056</b> | <b>0.4779</b> |          | <b>3,931.2226</b> | <b>3,931.2226</b> | <b>0.0321</b> |     | <b>3,931.8957</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 |               |                |                |               | 0.0960        | 0.0000        | 0.0960        | 0.0104         | 0.0000        | 0.0104        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 2.4257        | 25.1906        | 13.2834        | 0.0178        |               | 1.3843        | 1.3843        |                | 1.2735        | 1.2735        | 0.0000        | 1,848.7319        | 1,848.7319        | 0.5576        |     | 1,860.4424        |
| <b>Total</b>  | <b>2.4257</b> | <b>25.1906</b> | <b>13.2834</b> | <b>0.0178</b> | <b>0.0960</b> | <b>1.3843</b> | <b>1.4802</b> | <b>0.0104</b>  | <b>1.2735</b> | <b>1.2839</b> | <b>0.0000</b> | <b>1,848.7319</b> | <b>1,848.7319</b> | <b>0.5576</b> |     | <b>1,860.4424</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      | 0.8229        | 14.6067        | 9.1208        | 0.0381        | 0.9080        | 0.2227        | 1.1307        | 0.2486         | 0.2049        | 0.4535        |          | 3,841.9670        | 3,841.9670        | 0.0272        |     | 3,842.5376        |
| 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       | 0.0341        | 0.0458         | 0.4784        | 1.0600e-003   | 0.0894        | 7.5000e-004   | 0.0902        | 0.0237         | 6.9000e-004   | 0.0244        |          | 89.2556           | 89.2556           | 4.8800e-003   |     | 89.3581           |
| <b>Total</b> | <b>0.8569</b> | <b>14.6525</b> | <b>9.5992</b> | <b>0.0392</b> | <b>0.9974</b> | <b>0.2235</b> | <b>1.2209</b> | <b>0.2723</b>  | <b>0.2056</b> | <b>0.4779</b> |          | <b>3,931.2226</b> | <b>3,931.2226</b> | <b>0.0321</b> |     | <b>3,931.8957</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     | 4.3002        | 37.0509        | 24.8398        | 0.0350        |               | 2.6253        | 2.6253        |                | 2.4537        | 2.4537        |          | 3,518.9393        | 3,518.9393        | 0.9183        |     | 3,538.2239        |
| <b>Total</b> | <b>4.3002</b> | <b>37.0509</b> | <b>24.8398</b> | <b>0.0350</b> |               | <b>2.6253</b> | <b>2.6253</b> |                | <b>2.4537</b> | <b>2.4537</b> |          | <b>3,518.9393</b> | <b>3,518.9393</b> | <b>0.9183</b> |     | <b>3,538.2239</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       | 0.2838        | 2.7602        | 3.7114        | 6.7000e-003   | 0.3351        | 0.0442        | 0.3793        | 0.0899         | 0.0406        | 0.1305        |          | 670.7453          | 670.7453          | 5.0000e-003   |     | 670.8502          |
| Worker       | 0.5583        | 0.4929        | 5.3132        | 0.0107        | 1.6515        | 8.0200e-003   | 1.6595        | 0.4229         | 7.3700e-003   | 0.4303        |          | 899.7784          | 899.7784          | 0.0509        |     | 900.8464          |
| <b>Total</b> | <b>0.8422</b> | <b>3.2531</b> | <b>9.0246</b> | <b>0.0174</b> | <b>1.9866</b> | <b>0.0522</b> | <b>2.0388</b> | <b>0.5128</b>  | <b>0.0480</b> | <b>0.5608</b> |          | <b>1,570.5237</b> | <b>1,570.5237</b> | <b>0.0559</b> |     | <b>1,571.6966</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     | 4.3002        | 37.0509        | 24.8398        | 0.0350        |               | 2.6253        | 2.6253        |                | 2.4537        | 2.4537        | 0.0000        | 3,518.9393        | 3,518.9393        | 0.9183        |     | 3,538.2239        |
| <b>Total</b> | <b>4.3002</b> | <b>37.0509</b> | <b>24.8398</b> | <b>0.0350</b> |               | <b>2.6253</b> | <b>2.6253</b> |                | <b>2.4537</b> | <b>2.4537</b> | <b>0.0000</b> | <b>3,518.9393</b> | <b>3,518.9393</b> | <b>0.9183</b> |     | <b>3,538.2239</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       | 0.2838        | 2.7602        | 3.7114        | 6.7000e-003   | 0.3351        | 0.0442        | 0.3793        | 0.0899         | 0.0406        | 0.1305        |          | 670.7453          | 670.7453          | 5.0000e-003   |     |      | 670.8502          |
| Worker       | 0.5583        | 0.4929        | 5.3132        | 0.0107        | 1.6515        | 8.0200e-003   | 1.6595        | 0.4229         | 7.3700e-003   | 0.4303        |          | 899.7784          | 899.7784          | 0.0509        |     |      | 900.8464          |
| <b>Total</b> | <b>0.8422</b> | <b>3.2531</b> | <b>9.0246</b> | <b>0.0174</b> | <b>1.9866</b> | <b>0.0522</b> | <b>2.0388</b> | <b>0.5128</b>  | <b>0.0480</b> | <b>0.5608</b> |          | <b>1,570.5237</b> | <b>1,570.5237</b> | <b>0.0559</b> |     |      | <b>1,571.6966</b> |

### 3.5 Building Construction - 2017

#### Unmitigated Construction On-Site

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|------|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |      |                   |
| Off-Road     | 3.9339        | 34.3958        | 24.4130        | 0.0350        |               | 2.3821        | 2.3821        |                | 2.2258        | 2.2258        |          | 3,475.2508        | 3,475.2508        | 0.9057        |     |      | 3,494.2701        |
| <b>Total</b> | <b>3.9339</b> | <b>34.3958</b> | <b>24.4130</b> | <b>0.0350</b> |               | <b>2.3821</b> | <b>2.3821</b> |                | <b>2.2258</b> | <b>2.2258</b> |          | <b>3,475.2508</b> | <b>3,475.2508</b> | <b>0.9057</b> |     |      | <b>3,494.2701</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       | 0.2593        | 2.5118        | 3.5234        | 6.6900e-003   | 0.3352        | 0.0394        | 0.3746        | 0.0899         | 0.0362        | 0.1261        |          | 659.8780          | 659.8780          | 4.8400e-003   |     | 659.9796          |
| Worker       | 0.5076        | 0.4446        | 4.7926        | 0.0107        | 1.6515        | 7.7400e-003   | 1.6592        | 0.4229         | 7.1400e-003   | 0.4301        |          | 865.2475          | 865.2475          | 0.0468        |     | 866.2311          |
| <b>Total</b> | <b>0.7669</b> | <b>2.9565</b> | <b>8.3160</b> | <b>0.0174</b> | <b>1.9867</b> | <b>0.0471</b> | <b>2.0338</b> | <b>0.5128</b>  | <b>0.0434</b> | <b>0.5562</b> |          | <b>1,525.1255</b> | <b>1,525.1255</b> | <b>0.0517</b> |     | <b>1,526.2107</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |                |                |               |               |               |               |                |               |               | lb/day        |                   |                   |               |     |                   |
| Off-Road     | 3.9339        | 34.3958        | 24.4130        | 0.0350        |               | 2.3821        | 2.3821        |                | 2.2258        | 2.2258        | 0.0000        | 3,475.2508        | 3,475.2508        | 0.9057        |     | 3,494.2701        |
| <b>Total</b> | <b>3.9339</b> | <b>34.3958</b> | <b>24.4130</b> | <b>0.0350</b> |               | <b>2.3821</b> | <b>2.3821</b> |                | <b>2.2258</b> | <b>2.2258</b> | <b>0.0000</b> | <b>3,475.2508</b> | <b>3,475.2508</b> | <b>0.9057</b> |     | <b>3,494.2701</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       | 0.2593        | 2.5118        | 3.5234        | 6.6900e-003   | 0.3352        | 0.0394        | 0.3746        | 0.0899         | 0.0362        | 0.1261        |          | 659.8780          | 659.8780          | 4.8400e-003   |     | 659.9796          |
| Worker       | 0.5076        | 0.4446        | 4.7926        | 0.0107        | 1.6515        | 7.7400e-003   | 1.6592        | 0.4229         | 7.1400e-003   | 0.4301        |          | 865.2475          | 865.2475          | 0.0468        |     | 866.2311          |
| <b>Total</b> | <b>0.7669</b> | <b>2.9565</b> | <b>8.3160</b> | <b>0.0174</b> | <b>1.9867</b> | <b>0.0471</b> | <b>2.0338</b> | <b>0.5128</b>  | <b>0.0434</b> | <b>0.5562</b> |          | <b>1,525.1255</b> | <b>1,525.1255</b> | <b>0.0517</b> |     | <b>1,526.2107</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     | 1.5240        | 15.0491        | 7.9478        | 0.0102        |               | 0.9270        | 0.9270        |                | 0.8528        | 0.8528        |          | 1,058.1238        | 1,058.1238        | 0.3192        |     | 1,064.8264        |
| Paving       | 0.0000        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.5240</b> | <b>15.0491</b> | <b>7.9478</b> | <b>0.0102</b> |               | <b>0.9270</b> | <b>0.9270</b> |                | <b>0.8528</b> | <b>0.8528</b> |          | <b>1,058.1238</b> | <b>1,058.1238</b> | <b>0.3192</b> |     | <b>1,064.8264</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       | 0.0341        | 0.0458        | 0.4784        | 1.0600e-003        | 0.0894        | 7.5000e-004        | 0.0902        | 0.0237         | 6.9000e-004        | 0.0244        |          | 89.2556        | 89.2556        | 4.8800e-003        |     | 89.3581        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0458</b> | <b>0.4784</b> | <b>1.0600e-003</b> | <b>0.0894</b> | <b>7.5000e-004</b> | <b>0.0902</b> | <b>0.0237</b>  | <b>6.9000e-004</b> | <b>0.0244</b> |          | <b>89.2556</b> | <b>89.2556</b> | <b>4.8800e-003</b> |     | <b>89.3581</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     | 1.5240        | 15.0491        | 7.9478        | 0.0102        |               | 0.9270        | 0.9270        |                | 0.8528        | 0.8528        | 0.0000        | 1,058.1238        | 1,058.1238        | 0.3192        |     | 1,064.8264        |
| Paving       | 0.0000        |                |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>1.5240</b> | <b>15.0491</b> | <b>7.9478</b> | <b>0.0102</b> |               | <b>0.9270</b> | <b>0.9270</b> |                | <b>0.8528</b> | <b>0.8528</b> | <b>0.0000</b> | <b>1,058.1238</b> | <b>1,058.1238</b> | <b>0.3192</b> |     | <b>1,064.8264</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       | 0.0341        | 0.0458        | 0.4784        | 1.0600e-003        | 0.0894        | 7.5000e-004        | 0.0902        | 0.0237         | 6.9000e-004        | 0.0244        |          | 89.2556        | 89.2556        | 4.8800e-003        |     | 89.3581        |
| <b>Total</b> | <b>0.0341</b> | <b>0.0458</b> | <b>0.4784</b> | <b>1.0600e-003</b> | <b>0.0894</b> | <b>7.5000e-004</b> | <b>0.0902</b> | <b>0.0237</b>  | <b>6.9000e-004</b> | <b>0.0244</b> |          | <b>89.2556</b> | <b>89.2556</b> | <b>4.8800e-003</b> |     | <b>89.3581</b> |

**3.7 Architectural Coating - 2017**

**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 | 50.8664        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.3323         | 2.1850        | 1.8681        | 2.9700e-003        |               | 0.1733        | 0.1733        |                | 0.1733        | 0.1733        |          | 281.4481        | 281.4481        | 0.0297        |     | 282.0721        |
| <b>Total</b>    | <b>51.1987</b> | <b>2.1850</b> | <b>1.8681</b> | <b>2.9700e-003</b> |               | <b>0.1733</b> | <b>0.1733</b> |                | <b>0.1733</b> | <b>0.1733</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0297</b> |     | <b>282.0721</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       | 0.0611        | 0.0826        | 0.8628        | 2.1200e-003        | 0.1788        | 1.4400e-003        | 0.1803        | 0.0474         | 1.3300e-003        | 0.0488        |          | 171.6553        | 171.6553        | 9.0000e-003        |     | 171.8444        |
| <b>Total</b> | <b>0.0611</b> | <b>0.0826</b> | <b>0.8628</b> | <b>2.1200e-003</b> | <b>0.1788</b> | <b>1.4400e-003</b> | <b>0.1803</b> | <b>0.0474</b>  | <b>1.3300e-003</b> | <b>0.0488</b> |          | <b>171.6553</b> | <b>171.6553</b> | <b>9.0000e-003</b> |     | <b>171.8444</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 | 50.8664        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.3323         | 2.1850        | 1.8681        | 2.9700e-003        |               | 0.1733        | 0.1733        |                | 0.1733        | 0.1733        | 0.0000        | 281.4481        | 281.4481        | 0.0297        |     | 282.0721        |
| <b>Total</b>    | <b>51.1987</b> | <b>2.1850</b> | <b>1.8681</b> | <b>2.9700e-003</b> |               | <b>0.1733</b> | <b>0.1733</b> |                | <b>0.1733</b> | <b>0.1733</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0297</b> |     | <b>282.0721</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       | 0.0611        | 0.0826        | 0.8628        | 2.1200e-003        | 0.1788        | 1.4400e-003        | 0.1803        | 0.0474         | 1.3300e-003        | 0.0488        |          | 171.6553        | 171.6553        | 9.0000e-003        |     | 171.8444        |
| <b>Total</b> | <b>0.0611</b> | <b>0.0826</b> | <b>0.8628</b> | <b>2.1200e-003</b> | <b>0.1788</b> | <b>1.4400e-003</b> | <b>0.1803</b> | <b>0.0474</b>  | <b>1.3300e-003</b> | <b>0.0488</b> |          | <b>171.6553</b> | <b>171.6553</b> | <b>9.0000e-003</b> |     | <b>171.8444</b> |

### 3.8 Paving 2 - 2017

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.8053        | 8.6188        | 6.2316        | 9.4900e-003        |               | 0.4765        | 0.4765        |                | 0.4384        | 0.4384        |          | 970.9006        | 970.9006        | 0.2975        |     | 977.1477        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.8053</b> | <b>8.6188</b> | <b>6.2316</b> | <b>9.4900e-003</b> |               | <b>0.4765</b> | <b>0.4765</b> |                | <b>0.4384</b> | <b>0.4384</b> |          | <b>970.9006</b> | <b>970.9006</b> | <b>0.2975</b> |     | <b>977.1477</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       | 0.0305        | 0.0413        | 0.4314        | 1.0600e-003        | 0.0894        | 7.2000e-004        | 0.0901        | 0.0237         | 6.6000e-004        | 0.0244        |          | 85.8277        | 85.8277        | 4.5000e-003        |     | 85.9222        |
| <b>Total</b> | <b>0.0305</b> | <b>0.0413</b> | <b>0.4314</b> | <b>1.0600e-003</b> | <b>0.0894</b> | <b>7.2000e-004</b> | <b>0.0901</b> | <b>0.0237</b>  | <b>6.6000e-004</b> | <b>0.0244</b> |          | <b>85.8277</b> | <b>85.8277</b> | <b>4.5000e-003</b> |     | <b>85.9222</b> |

**Mitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day        |                 |                 |               |     |                 |
| Off-Road     | 0.8053        | 8.6188        | 6.2316        | 9.4900e-003        |               | 0.4765        | 0.4765        |                | 0.4384        | 0.4384        | 0.0000        | 970.9006        | 970.9006        | 0.2975        |     | 977.1477        |
| Paving       | 0.0000        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| <b>Total</b> | <b>0.8053</b> | <b>8.6188</b> | <b>6.2316</b> | <b>9.4900e-003</b> |               | <b>0.4765</b> | <b>0.4765</b> |                | <b>0.4384</b> | <b>0.4384</b> | <b>0.0000</b> | <b>970.9006</b> | <b>970.9006</b> | <b>0.2975</b> |     | <b>977.1477</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       | 0.0305        | 0.0413        | 0.4314        | 1.0600e-003        | 0.0894        | 7.2000e-004        | 0.0901        | 0.0237         | 6.6000e-004        | 0.0244        |          | 85.8277        | 85.8277        | 4.5000e-003        |     | 85.9222        |
| <b>Total</b> | <b>0.0305</b> | <b>0.0413</b> | <b>0.4314</b> | <b>1.0600e-003</b> | <b>0.0894</b> | <b>7.2000e-004</b> | <b>0.0901</b> | <b>0.0237</b>  | <b>6.6000e-004</b> | <b>0.0244</b> |          | <b>85.8277</b> | <b>85.8277</b> | <b>4.5000e-003</b> |     | <b>85.9222</b> |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

|             | ROG    | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category    | lb/day |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Mitigated   | 3.4926 | 8.5013 | 34.0901 | 0.0772 | 5.3875        | 0.1150       | 5.5024     | 1.4395         | 0.1058        | 1.5453      |          | 6,582.3641 | 6,582.3641 | 0.2674 |     | 6,587.9786 |
| Unmitigated | 3.4926 | 8.5013 | 34.0901 | 0.0772 | 5.3875        | 0.1150       | 5.5024     | 1.4395         | 0.1058        | 1.5453      |          | 6,582.3641 | 6,582.3641 | 0.2674 |     | 6,587.9786 |



#### 4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|----------|-------------------------|----------|--------|-------------|------------|
|          | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Hotel    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |
| Total    | 1,062.10                | 1,064.70 | 773.50 | 2,436,860   | 2,436,860  |

#### 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 |
| Hotel    | 16.60      | 8.40       | 6.90        | 19.40     | 61.60      | 19.00       | 58             | 38       | 4       |

| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.513125 | 0.060112 | 0.180262 | 0.139218 | 0.042100 | 0.006630 | 0.016061 | 0.030999 | 0.001941 | 0.002506 | 0.004348 | 0.000594 | 0.002104 |

#### 5.0 Energy Detail

#### 4.4 Fleet Mix

Historical Energy Use: N

#### 5.1 Mitigation Measures Energy

| Category               | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|------------------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| lb/day                 |        |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| NaturalGas Mitigated   | 0.1995 | 1.8136 | 1.5234 | 0.0109 |               | 0.1378       | 0.1378     |                | 0.1378        | 0.1378      |          | 2,176.2918 | 2,176.2918 | 0.0417 | 0.0399 | 2,189.5363 |
| NaturalGas Unmitigated | 0.1995 | 1.8136 | 1.5234 | 0.0109 |               | 0.1378       | 0.1378     |                | 0.1378        | 0.1378      |          | 2,176.2918 | 2,176.2918 | 0.0417 | 0.0399 | 2,189.5363 |

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

|              | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use     | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Parking Lot  | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| Hotel        | 18498.5         | 0.1995        | 1.8136        | 1.5234        | 0.0109        |               | 0.1378        | 0.1378        |                | 0.1378        | 0.1378        |          | 2,176.2918        | 2,176.2918        | 0.0417        | 0.0399        | 2,189.5363        |
| <b>Total</b> |                 | <b>0.1995</b> | <b>1.8136</b> | <b>1.5234</b> | <b>0.0109</b> |               | <b>0.1378</b> | <b>0.1378</b> |                | <b>0.1378</b> | <b>0.1378</b> |          | <b>2,176.2918</b> | <b>2,176.2918</b> | <b>0.0417</b> | <b>0.0399</b> | <b>2,189.5363</b> |

### Mitigated

|              | Natural Gas Use | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|--------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use     | kBTU/yr         | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |               |                   |
| Hotel        | 18.4985         | 0.1995        | 1.8136        | 1.5234        | 0.0109        |               | 0.1378        | 0.1378        |                | 0.1378        | 0.1378        |          | 2,176.2918        | 2,176.2918        | 0.0417        | 0.0399        | 2,189.5363        |
| Parking Lot  | 0               | 0.0000        | 0.0000        | 0.0000        | 0.0000        |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          | 0.0000            | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| <b>Total</b> |                 | <b>0.1995</b> | <b>1.8136</b> | <b>1.5234</b> | <b>0.0109</b> |               | <b>0.1378</b> | <b>0.1378</b> |                | <b>0.1378</b> | <b>0.1378</b> |          | <b>2,176.2918</b> | <b>2,176.2918</b> | <b>0.0417</b> | <b>0.0399</b> | <b>2,189.5363</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   | 4.9387 | 2.7000e-004 | 0.0284 | 0.0000 |               | 1.0000e-004  | 1.0000e-004 |                | 1.0000e-004   | 1.0000e-004 |          | 0.0598    | 0.0598    | 1.7000e-004 |     | 0.0632 |
| Unmitigated | 4.9387 | 2.7000e-004 | 0.0284 | 0.0000 |               | 1.0000e-004  | 1.0000e-004 |                | 1.0000e-004   | 1.0000e-004 |          | 0.0598    | 0.0598    | 1.7000e-004 |     | 0.0632 |

### 6.2 Area by SubCategory

#### Unmitigated

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2     | Total CO2     | CH4                | N2O | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|---------------|---------------|--------------------|-----|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |               |               |                    |     |               |
| Architectural Coating | 1.1985        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Consumer Products     | 3.7375        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |               | 0.0000        |                    |     | 0.0000        |
| Landscaping           | 2.7400e-003   | 2.7000e-004        | 0.0284        | 0.0000        |               | 1.0000e-004        | 1.0000e-004        |                | 1.0000e-004        | 1.0000e-004        |          | 0.0598        | 0.0598        | 1.7000e-004        |     | 0.0632        |
| <b>Total</b>          | <b>4.9387</b> | <b>2.7000e-004</b> | <b>0.0284</b> | <b>0.0000</b> |               | <b>1.0000e-004</b> | <b>1.0000e-004</b> |                | <b>1.0000e-004</b> | <b>1.0000e-004</b> |          | <b>0.0598</b> | <b>0.0598</b> | <b>1.7000e-004</b> |     | <b>0.0632</b> |

**Mitigated**

|                       | ROG           | NOx                | CO            | SO2           | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2 | Total CO2     | CH4           | N2O                | CO2e          |
|-----------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|-----------|---------------|---------------|--------------------|---------------|
| SubCategory           | lb/day        |                    |               |               |               |                    |                    |                |                    |                    | lb/day   |           |               |               |                    |               |
| Architectural Coating | 1.1985        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |           | 0.0000        |               |                    | 0.0000        |
| Consumer Products     | 3.7375        |                    |               |               |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          |           | 0.0000        |               |                    | 0.0000        |
| Landscaping           | 2.7400e-003   | 2.7000e-004        | 0.0284        | 0.0000        |               | 1.0000e-004        | 1.0000e-004        |                | 1.0000e-004        | 1.0000e-004        |          |           | 0.0598        | 0.0598        | 1.7000e-004        | 0.0632        |
| <b>Total</b>          | <b>4.9387</b> | <b>2.7000e-004</b> | <b>0.0284</b> | <b>0.0000</b> |               | <b>1.0000e-004</b> | <b>1.0000e-004</b> |                | <b>1.0000e-004</b> | <b>1.0000e-004</b> |          |           | <b>0.0598</b> | <b>0.0598</b> | <b>1.7000e-004</b> | <b>0.0632</b> |

**7.0 Water Detail**

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**7.1 Mitigation Measures Water**

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

**9.0 Operational Offroad**

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

**10.0 Vegetation**

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