

## SLOGPU\_GHG\_short-term-construction

### San Luis Obispo County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses               | Size   | Metric        | Lot Acreage | Floor Surface Area | Population |
|-------------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing   | 121.00 | Dwelling Unit | 39.29       | 217,800.00         | 346        |
| Apartments Low Rise     | 124.00 | Dwelling Unit | 7.75        | 124,000.00         | 355        |
| General Office Building | 93.70  | 1000sqft      | 2.15        | 93,700.00          | 0          |
| Strip Mall              | 96.00  | 1000sqft      | 2.20        | 96,000.00          | 0          |
| Industrial Park         | 44.60  | 1000sqft      | 1.02        | 44,600.00          | 0          |
| City Park               | 2.62   | Acre          | 2.62        | 114,127.20         | 0          |

#### 1.2 Other Project Characteristics

|              |       |                  |     |                           |      |
|--------------|-------|------------------|-----|---------------------------|------|
| Urbanization | Urban | Wind Speed (m/s) | 3.2 | Precipitation Freq (Days) | 44   |
| Climate Zone | 3     |                  |     | Operational Year          | 2015 |

Utility Company Pacific Gas & Electric Company

|                          |        |                          |       |                          |       |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|
| CO2 Intensity (lb/MW/hr) | 641.35 | CH4 Intensity (lb/MW/hr) | 0.029 | N2O Intensity (lb/MW/hr) | 0.006 |
|--------------------------|--------|--------------------------|-------|--------------------------|-------|

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

Project Characteristics - City of SLO LUCE Update. This model run to estimate average-annual, worst-case 2015 construction emissions only for 20 year build-out conditions (2015-2035).  
 Land Use - Land use inputs based on EIR Project Description, Table 2.4-4 Total Future Development Capacity within the Planning Subarea. Totals divided by 20 year averaged average.  
 Construction Phasing - General Phasing based on total 1 year construction schedule for all land use types

| Table Name           | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays     | 75.00         | 197.00    |
| tblConstructionPhase | NumDays     | 1,110.00      | 197.00    |

|                           |                 |           |            |
|---------------------------|-----------------|-----------|------------|
| tblConstructionPhase      | NumDays         | 110.00    | 20.00      |
| tblConstructionPhase      | NumDays         | 75.00     | 22.00      |
| tblConstructionPhase      | NumDays         | 40.00     | 22.00      |
| tblConstructionPhase      | PhaseEndDate    | 10/3/2016 | 12/31/2015 |
| tblConstructionPhase      | PhaseEndDate    | 2/27/2015 | 3/1/2015   |
| tblConstructionPhase      | PhaseEndDate    | 1/30/2015 | 1/31/2015  |
| tblConstructionPhase      | PhaseStartDate  | 1/1/2016  | 4/1/2015   |
| tblConstructionPhase      | PhaseStartDate  | 3/2/2015  | 3/1/2015   |
| tblGrading                | AcresOfGrading  | 50.00     | 275.00     |
| tblProjectCharacteristics | OperationalYear | 2014      | 2015       |

## 2.0 Emissions Summary

### 2.1 Overall Construction Unmitigated Construction

| Year         | ROG            | NOx           | CO            | SO2                | 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        |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
| 2015         | 10.2167        | 5.9235        | 6.7391        | 9.0200e-003        | 0.7425        | 0.3323        | 1.0747        | 0.2486         | 0.3116        | 0.5602        | 0.0000        | 782.2128        | 782.2128        | 0.1190        | 0.0000        | 784.7108        |
| <b>Total</b> | <b>10.2167</b> | <b>5.9235</b> | <b>6.7391</b> | <b>9.0200e-003</b> | <b>0.7425</b> | <b>0.3323</b> | <b>1.0747</b> | <b>0.2486</b>  | <b>0.3116</b> | <b>0.5602</b> | <b>0.0000</b> | <b>782.2128</b> | <b>782.2128</b> | <b>0.1190</b> | <b>0.0000</b> | <b>784.7108</b> |

### Mitigated Construction

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

| Year         | tons/yr        |               |               |                    |               |               |               |               |               |               | MT/yr         |                 |                 |               |               |                 |
|--------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| 2015         | 10.2167        | 5.9234        | 6.7391        | 9.0200e-003        | 0.7425        | 0.3323        | 1.0747        | 0.2486        | 0.3116        | 0.5602        | 0.0000        | 782.2123        | 782.2123        | 0.1190        | 0.0000        | 784.7103        |
| <b>Total</b> | <b>10.2167</b> | <b>5.9234</b> | <b>6.7391</b> | <b>9.0200e-003</b> | <b>0.7425</b> | <b>0.3323</b> | <b>1.0747</b> | <b>0.2486</b> | <b>0.3116</b> | <b>0.5602</b> | <b>0.0000</b> | <b>782.2123</b> | <b>782.2123</b> | <b>0.1190</b> | <b>0.0000</b> | <b>784.7103</b> |

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

**2.2 Overall Operational**  
**Unmitigated Operational**

| Category     | tons/yr       |                |                |               |               |               |               |               |               |               | MT/yr           |                   |                   |               |               |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Area         | 3.7432        | 0.0401         | 3.4018         | 1.8000e-004   | 0.0182        | 0.0182        | 0.0182        | 0.0182        | 0.0182        | 0.0182        | 0.0000          | 5.4556            | 5.4556            | 5.6900e-003   | 0.0000        | 5.5751            |
| Energy       | 0.0463        | 0.4045         | 0.2324         | 2.5300e-003   | 0.0320        | 0.0320        | 0.0320        | 0.0320        | 0.0320        | 0.0320        | 0.0000          | 1,528.7861        | 1,528.7861        | 0.0572        | 0.0184        | 1,535.6963        |
| Mobile       | 5.5591        | 12.3716        | 50.6994        | 0.0679        | 4.6930        | 0.1440        | 4.8370        | 1.2576        | 0.1320        | 1.3896        | 0.0000          | 5,561.4857        | 5,561.4857        | 0.2969        | 0.0000        | 5,567.7214        |
| Waste        |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 89.7971         | 89.7971           | 5.3069            | 0.0000        | 201.2411      |                   |
| Water        |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 15.8757         | 107.0261          | 122.9019          | 1.6354        | 0.0395        | 169.4918          |
| <b>Total</b> | <b>9.3486</b> | <b>12.8161</b> | <b>54.3336</b> | <b>0.0706</b> | <b>4.6930</b> | <b>0.1942</b> | <b>4.8872</b> | <b>1.2576</b> | <b>0.1822</b> | <b>1.4398</b> | <b>105.6728</b> | <b>7,202.7535</b> | <b>7,308.4264</b> | <b>7.3021</b> | <b>0.0579</b> | <b>7,479.7257</b> |

**Mitigated Operational**

| Category     | tons/yr       |                |                |               |               |               |               |                |               |               |                 | MT/yr            |                   |               |               |                   |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|------------------|-------------------|---------------|---------------|-------------------|
|              | ROG           | NOx            | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2        | Total CO2         | CH4           | N2O           | CO2e              |
| Area         | 3.7432        | 0.0401         | 3.4018         | 1.8000e-004   | 0.0182        | 0.0182        | 0.0182        | 0.0182         | 0.0182        | 0.0182        | 0.0000          | 5.4556           | 5.4556            | 5.6900e-003   | 0.0000        | 5.5751            |
| Energy       | 0.0463        | 0.4045         | 0.2324         | 2.5300e-003   | 0.0320        | 0.0320        | 0.0320        | 0.0320         | 0.0320        | 0.0320        | 0.0000          | 1,528.7861       | 1,528.7861        | 0.0572        | 0.0184        | 1,535.6963        |
| Mobile       | 5.5591        | 12.3716        | 50.6994        | 0.0679        | 4.6930        | 4.8370        | 1.2576        | 0.1320         | 1.3896        | 0.0000        | 0.0000          | 5,561.4857       | 5,561.4857        | 0.2969        | 0.0000        | 5,567.7214        |
| Waste        |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 89.7971         | 89.7971          | 5.3069            | 0.0000        | 201.2411      |                   |
| Water        |               |                |                |               | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 15.8757         | 107.0261         | 122.9019          | 1.6351        | 0.0394        | 169.4665          |
| <b>Total</b> | <b>9.3486</b> | <b>12.8161</b> | <b>54.3336</b> | <b>0.0706</b> | <b>4.6930</b> | <b>4.8872</b> | <b>1.2576</b> | <b>0.1822</b>  | <b>1.4398</b> | <b>1.4398</b> | <b>105.6728</b> | <b>7,202.753</b> | <b>7,308.4264</b> | <b>7.3018</b> | <b>0.0579</b> | <b>7,479.7003</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>0.10</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            | Site Preparation      | Site Preparation      | 1/1/2015   | 1/31/2015  | 5             | 22       |                   |
| 2            | Grading               | Grading               | 2/1/2015   | 3/1/2015   | 5             | 20       |                   |
| 3            | Paving                | Paving                | 3/1/2015   | 3/31/2015  | 5             | 22       |                   |
| 4            | Building Construction | Building Construction | 4/1/2015   | 12/31/2015 | 5             | 197      |                   |
| 5            | Architectural Coating | Architectural Coating | 4/1/2015   | 12/31/2015 | 5             | 197      |                   |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 275

Acres of Paving: 0

**OffRoad Equipment**

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors           | 11     | 6.00        | 781         | 0.48        |
| Grading               | Excavators                | 2      | 8.00        | 162         | 0.38        |
| 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        |
| Paving                | Pavers                    | 2      | 8.00        | 125         | 0.42        |
| Paving                | Rollers                   | 2      | 8.00        | 80          | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 8.00        | 255         | 0.40        |
| Building Construction | Tractors/Loaders/Backhoes | 3      | 7.00        | 97          | 0.37        |
| Grading               | Graders                   | 1      | 8.00        | 174         | 0.41        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Paving Equipment          | 2      | 8.00        | 130         | 0.36        |
| Site Preparation      | Tractors/Loaders/Backhoes | 4      | 8.00        | 97          | 0.37        |
| Site Preparation      | Rubber Tired Dozers       | 3      | 8.00        | 255         | 0.40        |
| Grading               | Scrapers                  | 2      | 8.00        | 361         | 0.48        |
| Building Construction | Welders                   | 1      | 8.00        | 46          | 0.45        |

**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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation      | 7                       | 18.00              | 0.00               | 0.00                | 13.00              | 5.00               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 8                       | 20.00              | 0.00               | 0.00                | 13.00              | 5.00               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 9                       | 260.00             | 83.00              | 0.00                | 13.00              | 5.00               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 6                       | 15.00              | 0.00               | 0.00                | 13.00              | 5.00               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 52.00              | 0.00               | 0.00                | 13.00              | 5.00               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**

### 3.2 Site Preparation - 2015

#### Unmitigated Construction On-Site

| 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         |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1987        | 0.0000        | 0.1987        | 0.1092         | 0.0000        | 0.1092        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0579        | 0.6258        | 0.4690        | 4.3000e-004        | 0.0340        | 0.0340        | 0.0340        | 0.0313         | 0.0313        | 0.0313        | 0.0000        | 41.0312        | 41.0312        | 0.0123        | 0.0000        | 41.2885        |
| <b>Total</b>  | <b>0.0579</b> | <b>0.6258</b> | <b>0.4690</b> | <b>4.3000e-004</b> | <b>0.1987</b> | <b>0.0340</b> | <b>0.2327</b> | <b>0.1092</b>  | <b>0.0313</b> | <b>0.1405</b> | <b>0.0000</b> | <b>41.0312</b> | <b>41.0312</b> | <b>0.0123</b> | <b>0.0000</b> | <b>41.2885</b> |

#### Unmitigated Construction Off-Site

| 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         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0600e-003        | 1.6200e-003        | 0.0146        | 2.0000e-005        | 1.9100e-003        | 2.0000e-005        | 1.9200e-003        | 5.1000e-004        | 2.0000e-005        | 5.2000e-004        | 0.0000        | 1.6859        | 1.6859        | 1.1000e-004        | 0.0000        | 1.6882        |
| <b>Total</b> | <b>1.0600e-003</b> | <b>1.6200e-003</b> | <b>0.0146</b> | <b>2.0000e-005</b> | <b>1.9100e-003</b> | <b>2.0000e-005</b> | <b>1.9200e-003</b> | <b>5.1000e-004</b> | <b>2.0000e-005</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>1.6859</b> | <b>1.6859</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.6882</b> |

#### Mitigated Construction On-Site

| 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       |               |               |               |                    |               |               |               |                |               |               |               |                |                |               |               |                |
| MIT/yr        |               |               |               |                    |               |               |               |                |               |               |               |                |                |               |               |                |
| Fugitive Dust |               |               |               |                    | 0.1987        | 0.0000        | 0.1987        | 0.1092         | 0.0000        | 0.1092        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0579        | 0.6258        | 0.4690        | 4.3000e-004        | 0.0340        | 0.0340        | 0.0340        | 0.0313         | 0.0313        | 0.0313        | 0.0000        | 41.0312        | 41.0312        | 0.0123        | 0.0000        | 41.2884        |
| <b>Total</b>  | <b>0.0579</b> | <b>0.6258</b> | <b>0.4690</b> | <b>4.3000e-004</b> | <b>0.1987</b> | <b>0.0340</b> | <b>0.2327</b> | <b>0.1092</b>  | <b>0.0313</b> | <b>0.1405</b> | <b>0.0000</b> | <b>41.0312</b> | <b>41.0312</b> | <b>0.0123</b> | <b>0.0000</b> | <b>41.2884</b> |

**Mitigated Construction Off-Site**

| 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      |                    |                    |               |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
| MIT/yr       |                    |                    |               |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0600e-003        | 1.6200e-003        | 0.0146        | 2.0000e-005        | 1.9100e-003        | 2.0000e-005        | 1.9200e-003        | 5.1000e-004        | 2.0000e-005        | 5.2000e-004        | 0.0000        | 1.6859        | 1.6859        | 1.1000e-004        | 0.0000        | 1.6882        |
| <b>Total</b> | <b>1.0600e-003</b> | <b>1.6200e-003</b> | <b>0.0146</b> | <b>2.0000e-005</b> | <b>1.9100e-003</b> | <b>2.0000e-005</b> | <b>1.9200e-003</b> | <b>5.1000e-004</b> | <b>2.0000e-005</b> | <b>5.2000e-004</b> | <b>0.0000</b> | <b>1.6859</b> | <b>1.6859</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.6882</b> |

**3.3 Grading - 2015**

**Unmitigated Construction On-Site**

| 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       |     |     |    |     |               |              |            |                |               |             |          |           |           |        |        |        |
| MIT/yr        |     |     |    |     |               |              |            |                |               |             |          |           |           |        |        |        |
| Fugitive Dust |     |     |    |     | 0.2060        | 0.0000       | 0.2060     | 0.0489         | 0.0000        | 0.0489      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

|              |               |               |               |                    |               |               |               |               |                |               |               |                |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|
| Off-Road     | 0.0678        | 0.7905        | 0.5084        | 6.2000e-004        | 0.0380        | 0.0380        | 0.0350        | 0.0000        | 58.8422        | 0.0176        | 0.0000        | 59.2111        |
| <b>Total</b> | <b>0.0678</b> | <b>0.7905</b> | <b>0.5084</b> | <b>6.2000e-004</b> | <b>0.0380</b> | <b>0.2441</b> | <b>0.0350</b> | <b>0.0000</b> | <b>58.8422</b> | <b>0.0176</b> | <b>0.0000</b> | <b>59.2111</b> |

**Unmitigated Construction Off-Site**

| Category     | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    |               | MT/yr         |               |                    |               |               |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
|              | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0700e-003        | 1.6400e-003        | 0.0148        | 2.0000e-005        | 1.9300e-003        | 2.0000e-005        | 1.9400e-003        | 5.1000e-004        | 2.0000e-005        | 5.3000e-004        | 0.0000        | 1.7030        | 1.7030        | 1.1000e-004        | 0.0000        | 1.7053        |
| <b>Total</b> | <b>1.0700e-003</b> | <b>1.6400e-003</b> | <b>0.0148</b> | <b>2.0000e-005</b> | <b>1.9300e-003</b> | <b>2.0000e-005</b> | <b>1.9400e-003</b> | <b>5.1000e-004</b> | <b>2.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>1.7030</b> | <b>1.7030</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.7053</b> |

**Mitigated Construction On-Site**

| Category      | tons/yr       |               |               |                    |               |               |               |                |               |               |               | MT/yr          |                |               |               |                |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
|               | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
| Fugitive Dust |               |               |               |                    | 0.2060        | 0.0000        | 0.2060        | 0.0489         | 0.0000        | 0.0489        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Off-Road      | 0.0678        | 0.7905        | 0.5084        | 6.2000e-004        | 0.0380        | 0.0380        | 0.0380        | 0.0350         | 0.0000        | 0.0350        | 0.0000        | 58.8421        | 58.8421        | 0.0176        | 0.0000        | 59.2110        |
| <b>Total</b>  | <b>0.0678</b> | <b>0.7905</b> | <b>0.5084</b> | <b>6.2000e-004</b> | <b>0.2060</b> | <b>0.0380</b> | <b>0.2441</b> | <b>0.0489</b>  | <b>0.0350</b> | <b>0.0838</b> | <b>0.0000</b> | <b>58.8421</b> | <b>58.8421</b> | <b>0.0176</b> | <b>0.0000</b> | <b>59.2110</b> |

**Mitigated Construction Off-Site**



| Category     | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | INBio- CO2    | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| tons/yr      |                    |                    |               |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
| MT/yr        |                    |                    |               |                    |                    |                    |                    |                    |                    |                    |               |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0700e-003        | 1.6400e-003        | 0.0148        | 2.0000e-005        | 1.9300e-003        | 2.0000e-005        | 1.9400e-003        | 5.1000e-004        | 2.0000e-005        | 5.3000e-004        | 0.0000        | 1.7030        | 1.7030        | 1.1000e-004        | 0.0000        | 1.7053        |
| <b>Total</b> | <b>1.0700e-003</b> | <b>1.6400e-003</b> | <b>0.0148</b> | <b>2.0000e-005</b> | <b>1.9300e-003</b> | <b>2.0000e-005</b> | <b>1.9400e-003</b> | <b>5.1000e-004</b> | <b>2.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>1.7030</b> | <b>1.7030</b> | <b>1.1000e-004</b> | <b>0.0000</b> | <b>1.7053</b> |

### 3.4 Paving - 2015

#### Unmitigated Construction On-Site

| Category     | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | INBio- CO2     | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| tons/yr      |               |               |               |                    |               |               |               |                |               |               |               |                |                |                    |               |                |
| MT/yr        |               |               |               |                    |               |               |               |                |               |               |               |                |                |                    |               |                |
| Off-Road     | 0.0255        | 0.2769        | 0.1648        | 2.5000e-004        | 0.0156        | 0.0156        | 0.0156        | 0.0143         | 0.0143        | 0.0143        | 0.0000        | 23.3499        | 23.3499        | 6.9700e-003        | 0.0000        | 23.4963        |
| Paving       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 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>0.0255</b> | <b>0.2769</b> | <b>0.1648</b> | <b>2.5000e-004</b> | <b>0.0156</b> | <b>0.0156</b> | <b>0.0156</b> | <b>0.0143</b>  | <b>0.0143</b> | <b>0.0143</b> | <b>0.0000</b> | <b>23.3499</b> | <b>23.3499</b> | <b>6.9700e-003</b> | <b>0.0000</b> | <b>23.4963</b> |

#### Unmitigated Construction Off-Site

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

| 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          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| 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       | 8.8000e-004        | 1.3500e-003        | 0.0122        | 2.0000e-005        | 1.5900e-003        | 1.0000e-005        | 1.6000e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.4049        | 1.4049        | 9.0000e-005        | 0.0000        | 1.4069        |
| <b>Total</b> | <b>8.8000e-004</b> | <b>1.3500e-003</b> | <b>0.0122</b> | <b>2.0000e-005</b> | <b>1.5900e-003</b> | <b>1.0000e-005</b> | <b>1.6000e-003</b> | <b>4.2000e-004</b> | <b>1.0000e-005</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>1.4049</b> | <b>1.4049</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>1.4069</b> |

**Mitigated Construction On-Site**

| 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           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Off-Road     | 0.0255        | 0.2769        | 0.1648        | 2.5000e-004        | 0.0156        | 0.0156        | 0.0156        | 0.0143         | 0.0143        | 0.0143        | 0.0000        | 23.3499        | 23.3499        | 6.9700e-003        | 0.0000        | 23.4963        |
| Paving       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 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>0.0255</b> | <b>0.2769</b> | <b>0.1648</b> | <b>2.5000e-004</b> | <b>0.0156</b> | <b>0.0156</b> | <b>0.0156</b> | <b>0.0143</b>  | <b>0.0143</b> | <b>0.0143</b> | <b>0.0000</b> | <b>23.3499</b> | <b>23.3499</b> | <b>6.9700e-003</b> | <b>0.0000</b> | <b>23.4963</b> |

**Mitigated Construction Off-Site**

| 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          |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| 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       | 8.8000e-004        | 1.3500e-003        | 0.0122        | 2.0000e-005        | 1.5900e-003        | 1.0000e-005        | 1.6000e-003        | 4.2000e-004        | 1.0000e-005        | 4.3000e-004        | 0.0000        | 1.4049        | 1.4049        | 9.0000e-005        | 0.0000        | 1.4069        |
| <b>Total</b> | <b>8.8000e-004</b> | <b>1.3500e-003</b> | <b>0.0122</b> | <b>2.0000e-005</b> | <b>1.5900e-003</b> | <b>1.0000e-005</b> | <b>1.6000e-003</b> | <b>4.2000e-004</b> | <b>1.0000e-005</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>1.4049</b> | <b>1.4049</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>1.4069</b> |

**3.5 Building Construction - 2015**  
**Unmitigated Construction On-Site**

| 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       |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
|              | MIT/yr        |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
| Off-Road     | 0.3604        | 2.9580        | 1.8463        | 2.6400e-003        | 0.2085        | 0.2085        | 0.2085        | 0.1961         | 0.1961        | 0.1961        | 0.0000        | 240.3344        | 240.3344        | 0.0603        | 0.0000        | 241.6007        |
| <b>Total</b> | <b>0.3604</b> | <b>2.9580</b> | <b>1.8463</b> | <b>2.6400e-003</b> | <b>0.2085</b> | <b>0.2085</b> | <b>0.2085</b> | <b>0.1961</b>  | <b>0.1961</b> | <b>0.1961</b> | <b>0.0000</b> | <b>240.3344</b> | <b>240.3344</b> | <b>0.0603</b> | <b>0.0000</b> | <b>241.6007</b> |

**Unmitigated Construction Off-Site**

| 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       |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
|              | MIT/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       | 0.1137        | 0.7631        | 1.2487        | 1.3900e-003        | 0.0364        | 0.0118        | 0.0482        | 0.0104         | 0.0109        | 0.0213        | 0.0000        | 127.0362        | 127.0362        | 1.2400e-003   | 0.0000        | 127.0621        |
| Worker       | 0.1368        | 0.2095        | 1.8942        | 2.7900e-003        | 0.2466        | 2.1700e-003   | 0.2487        | 0.0655         | 1.9500e-003   | 0.0675        | 0.0000        | 218.0629        | 218.0629        | 0.0142        | 0.0000        | 218.3611        |
| <b>Total</b> | <b>0.2505</b> | <b>0.9726</b> | <b>3.1429</b> | <b>4.1800e-003</b> | <b>0.2830</b> | <b>0.0140</b> | <b>0.2970</b> | <b>0.0760</b>  | <b>0.0128</b> | <b>0.0888</b> | <b>0.0000</b> | <b>345.0991</b> | <b>345.0991</b> | <b>0.0154</b> | <b>0.0000</b> | <b>345.4232</b> |

**Mitigated Construction On-Site**

| 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       |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
| Off-Road     | 0.3604        | 2.9580        | 1.8463        | 2.6400e-003        | 0.2085        | 0.2085        | 0.2085        | 0.1961         | 0.1961        | 0.1961        | 0.0000        | 240.3341        | 240.3341        | 0.0603        | 0.0000        | 241.6004        |
| <b>Total</b> | <b>0.3604</b> | <b>2.9580</b> | <b>1.8463</b> | <b>2.6400e-003</b> | <b>0.2085</b> | <b>0.2085</b> | <b>0.2085</b> | <b>0.1961</b>  | <b>0.1961</b> | <b>0.1961</b> | <b>0.0000</b> | <b>240.3341</b> | <b>240.3341</b> | <b>0.0603</b> | <b>0.0000</b> | <b>241.6004</b> |
|              | MIT/yr        |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |

**Mitigated Construction Off-Site**

| 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       |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |
| 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       | 0.1137        | 0.7631        | 1.2487        | 1.3900e-003        | 0.0364        | 0.0118        | 0.0482        | 0.0104         | 0.0109        | 0.0213        | 0.0000        | 127.0362        | 127.0362        | 1.2400e-003   | 0.0000        | 127.0621        |
| Worker       | 0.1368        | 0.2095        | 1.8942        | 2.7900e-003        | 0.2466        | 2.1700e-003   | 0.2487        | 0.0655         | 1.9500e-003   | 0.0675        | 0.0000        | 218.0629        | 218.0629        | 0.0142        | 0.0000        | 218.3611        |
| <b>Total</b> | <b>0.2505</b> | <b>0.9726</b> | <b>3.1429</b> | <b>4.1800e-003</b> | <b>0.2830</b> | <b>0.0140</b> | <b>0.2970</b> | <b>0.0760</b>  | <b>0.0128</b> | <b>0.0888</b> | <b>0.0000</b> | <b>345.0991</b> | <b>345.0991</b> | <b>0.0154</b> | <b>0.0000</b> | <b>345.4232</b> |
|              | MIT/yr        |               |               |                    |               |               |               |                |               |               |               |                 |                 |               |               |                 |

**3.6 Architectural Coating - 2015**  
**Unmitigated Construction On-Site**

| 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 |     |    |     |               |              |            |                |               |             |          |           |           |        |        |        |
| Archit. Coating | 9.3842  |     |    |     |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
|                 | MIT/yr  |     |    |     |               |              |            |                |               |             |          |           |           |        |        |        |

|              |               |               |               |                    |               |               |               |               |                |                    |               |                |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|----------------|--------------------|---------------|----------------|
| Off-Road     | 0.0401        | 0.2532        | 0.1873        | 2.9000e-004        | 0.0218        | 0.0218        | 0.0218        | 0.0000        | 25.1496        | 3.2700e-003        | 0.0000        | 25.2183        |
| <b>Total</b> | <b>9.4243</b> | <b>0.2532</b> | <b>0.1873</b> | <b>2.9000e-004</b> | <b>0.0218</b> | <b>0.0218</b> | <b>0.0218</b> | <b>0.0000</b> | <b>25.1496</b> | <b>3.2700e-003</b> | <b>0.0000</b> | <b>25.2183</b> |

**Unmitigated Construction Off-Site**

| 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        |               |               |               |                    |               |                    |               |                |                    |               |               |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0274        | 0.0419        | 0.3788        | 5.6000e-004        | 0.0493        | 4.3000e-004        | 0.0497        | 0.0131         | 3.9000e-004        | 0.0135        | 0.0000        | 43.6126        | 43.6126        | 2.8400e-003        | 0.0000        | 43.6722        |
| <b>Total</b> | <b>0.0274</b> | <b>0.0419</b> | <b>0.3788</b> | <b>5.6000e-004</b> | <b>0.0493</b> | <b>4.3000e-004</b> | <b>0.0497</b> | <b>0.0131</b>  | <b>3.9000e-004</b> | <b>0.0135</b> | <b>0.0000</b> | <b>43.6126</b> | <b>43.6126</b> | <b>2.8400e-003</b> | <b>0.0000</b> | <b>43.6722</b> |

**Mitigated Construction On-Site**

| 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           |               |               |               |                    |               |               |               |                |               |               |               |                |                |                    |               |                |
| Archit. Coating | 9.3842        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road        | 0.0401        | 0.2532        | 0.1873        | 2.9000e-004        | 0.0218        | 0.0218        | 0.0218        | 0.0000         | 0.0218        | 0.0218        | 0.0000        | 25.1495        | 25.1495        | 3.2700e-003        | 0.0000        | 25.2183        |
| <b>Total</b>    | <b>9.4243</b> | <b>0.2532</b> | <b>0.1873</b> | <b>2.9000e-004</b> | <b>0.0218</b> | <b>0.0218</b> | <b>0.0218</b> | <b>0.0000</b>  | <b>0.0218</b> | <b>0.0218</b> | <b>0.0000</b> | <b>25.1495</b> | <b>25.1495</b> | <b>3.2700e-003</b> | <b>0.0000</b> | <b>25.2183</b> |

**Mitigated Construction Off-Site**

| Category     | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total   | Bio- CO2      | INBio- CO2     | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| tons/yr      |               |               |               |                    |               |                    |               |                |                    |               |               |                |                |                    |               |                |
| MT/yr        |               |               |               |                    |               |                    |               |                |                    |               |               |                |                |                    |               |                |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000         | 0.0000             | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Worker       | 0.0274        | 0.0419        | 0.3788        | 5.6000e-004        | 0.0493        | 4.3000e-004        | 0.0497        | 0.0131         | 3.9000e-004        | 0.0135        | 0.0000        | 43.6126        | 43.6126        | 2.8400e-003        | 0.0000        | 43.6722        |
| <b>Total</b> | <b>0.0274</b> | <b>0.0419</b> | <b>0.3788</b> | <b>5.6000e-004</b> | <b>0.0493</b> | <b>4.3000e-004</b> | <b>0.0497</b> | <b>0.0131</b>  | <b>3.9000e-004</b> | <b>0.0135</b> | <b>0.0000</b> | <b>43.6126</b> | <b>43.6126</b> | <b>2.8400e-003</b> | <b>0.0000</b> | <b>43.6722</b> |

#### 4.0 Operational Detail - Mobile

#### 4.1 Mitigation Measures Mobile

| Category    | ROG    | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | INBio- CO2 | Total CO2 | CH4    | N2O    | CO2e        |
|-------------|--------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|-----------|--------|--------|-------------|
| tons/yr     |        |         |         |        |               |              |            |                |               |             |          |            |           |        |        |             |
| MT/yr       |        |         |         |        |               |              |            |                |               |             |          |            |           |        |        |             |
| Mitigated   | 5.5591 | 12.3716 | 50.6994 | 0.0679 | 4.6930        | 0.1440       | 4.8370     | 1.2576         | 0.1320        | 1.3896      | 0.0000   | 5,561,485  | 5,561,485 | 0.2969 | 0.0000 | 5,567,721.4 |
| Unmitigated | 5.5591 | 12.3716 | 50.6994 | 0.0679 | 4.6930        | 0.1440       | 4.8370     | 1.2576         | 0.1320        | 1.3896      | 0.0000   | 5,561,485  | 5,561,485 | 0.2969 | 0.0000 | 5,567,721.4 |

#### 4.2 Trip Summary Information

| Land Use                | Average Daily Trip Rate |          |        | Unmitigated Annual VMT | Mitigated Annual VMT |
|-------------------------|-------------------------|----------|--------|------------------------|----------------------|
|                         | Weekday                 | Saturday | Sunday |                        |                      |
| Apartments Low Rise     | 817.16                  | 887.84   | 752.68 | 2,079,110              | 2,079,110            |
| City Park               | 4.17                    | 4.17     | 4.17   | 8,466                  | 8,466                |
| General Office Building | 1,031.64                | 222.07   | 91.83  | 1,778,341              | 1,778,341            |

|                       |          |          |          |            |            |
|-----------------------|----------|----------|----------|------------|------------|
| Industrial Park       | 310.42   | 111.05   | 32.56    | 717,973    | 717,973    |
| Single Family Housing | 1,157.97 | 1,219.68 | 1061.17  | 2,930,307  | 2,930,307  |
| Strip Mall            | 4,254.72 | 4,035.84 | 1961.28  | 4,956,748  | 4,956,748  |
| Total                 | 7,576.07 | 6,480.65 | 3,903.68 | 12,470,944 | 12,470,944 |

### 4.3 Trip Type Information

| Land Use                | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|-------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                         | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise     | 13.00      | 5.00       | 5.00        | 35.80     | 21.00      | 43.20       | 86             | 11       | 3       |
| City Park               | 13.00      | 5.00       | 5.00        | 33.00     | 48.00      | 19.00       | 66             | 28       | 6       |
| General Office Building | 13.00      | 5.00       | 5.00        | 33.00     | 48.00      | 19.00       | 77             | 19       | 4       |
| Industrial Park         | 13.00      | 5.00       | 5.00        | 59.00     | 28.00      | 13.00       | 79             | 19       | 2       |
| Single Family Housing   | 13.00      | 5.00       | 5.00        | 35.80     | 21.00      | 43.20       | 86             | 11       | 3       |
| Strip Mall              | 13.00      | 5.00       | 5.00        | 16.60     | 64.40      | 19.00       | 45             | 40       | 15      |

|          |          |          |          |          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
| 0.455853 | 0.042424 | 0.214936 | 0.151343 | 0.068369 | 0.010021 | 0.017172 | 0.021892 | 0.002320 | 0.001408 | 0.008721 | 0.000858 | 0.004683 |

### 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 |     |    |     |               |              |            |                |               |             |          |           |            |        |        |            |
| Electricity Mitigated   |         |     |    |     | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 1,070.492 | 1,070.4922 | 0.0484 | 0.0100 | 1,074.6132 |
| Electricity Unmitigated |         |     |    |     | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 1,070.492 | 1,070.4922 | 0.0484 | 0.0100 | 1,074.6132 |

|                         |        |        |             |        |        |        |        |          |          |             |             |          |
|-------------------------|--------|--------|-------------|--------|--------|--------|--------|----------|----------|-------------|-------------|----------|
| Natural Gas Mitigated   | 0.4045 | 0.2324 | 2.5300e-003 | 0.0320 | 0.0320 | 0.0320 | 0.0000 | 458.2939 | 458.2939 | 8.7800e-003 | 8.4000e-003 | 461.0830 |
| Natural Gas Unmitigated | 0.4045 | 0.2324 | 2.5300e-003 | 0.0320 | 0.0320 | 0.0320 | 0.0000 | 458.2939 | 458.2939 | 8.7800e-003 | 8.4000e-003 | 461.0830 |

## 5.2 Energy by Land Use - Natural Gas

### Unmitigated

| Land Use                | Natural Gas Use<br>kBtu/yr | tons/yr       |               |               |                    |               |               |               |                |               |               | MIT/yr        |                 |                 |                    |                    |                 |
|-------------------------|----------------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
|                         |                            | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2       | Total CO2       | CH4                | N2O                | CO2e            |
| Apartment Low Rise      | 1.82827e+06                | 9.8600e-003   | 0.0842        | 0.0359        | 5.4000e-004        | 6.8100e-003   | 6.8100e-003   | 6.8100e-003   | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 97.5632         | 97.5632         | 1.8700e-003        | 1.7900e-003        | 98.1570         |
| City Park               | 0                          | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000             | 0.0000             | 0.0000          |
| General Office Building | 1.28556e+06                | 6.9300e-003   | 0.0630        | 0.0529        | 3.8000e-004        | 4.7900e-003   | 4.7900e-003   | 4.7900e-003   | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 68.6026         | 68.6026         | 1.3100e-003        | 1.2600e-003        | 69.0201         |
| Industrial Park         | 611912                     | 3.3000e-003   | 0.0300        | 0.0252        | 1.8000e-004        | 2.2800e-003   | 2.2800e-003   | 2.2800e-003   | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 32.6540         | 32.6540         | 6.3000e-004        | 6.0000e-004        | 32.8527         |
| Single Family Housing   | 3.79196e+06                | 0.0205        | 0.1747        | 0.0744        | 1.1200e-003        | 0.0141        | 0.0141        | 0.0141        | 0.0141         | 0.0141        | 0.0141        | 0.0000        | 202.3535        | 202.3535        | 3.8800e-003        | 3.7100e-003        | 203.5850        |
| Strip Mall              | 1.07046e+06                | 5.7700e-003   | 0.0525        | 0.0441        | 3.1000e-004        | 3.9900e-003   | 3.9900e-003   | 3.9900e-003   | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 57.1206         | 57.1206         | 1.0900e-003        | 1.0500e-003        | 57.4683         |
| <b>Total</b>            |                            | <b>0.0463</b> | <b>0.4045</b> | <b>0.2324</b> | <b>2.5300e-003</b> | <b>0.0320</b> | <b>0.0320</b> | <b>0.0320</b> | <b>0.0320</b>  | <b>0.0320</b> | <b>0.0320</b> | <b>0.0000</b> | <b>458.2939</b> | <b>458.2939</b> | <b>8.7800e-003</b> | <b>8.4100e-003</b> | <b>461.0830</b> |

### Mitigated

| Land Use  | Natural Gas Use<br>kBtu/yr | tons/yr |        |        |        |               |              |            |                |               |             | MIT/yr   |           |           |        |        |        |
|-----------|----------------------------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
|           |                            | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
| City Park | 0                          | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |



|                         |             |               |               |               |                    |               |               |               |               |                 |                 |                    |                    |                 |
|-------------------------|-------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| General Office Building | 1.28556e+06 | 6.9300e-003   | 0.0630        | 0.0529        | 3.8000e-004        | 4.7900e-003   | 4.7900e-003   | 4.7900e-003   | 0.0000        | 68.6026         | 68.6026         | 1.3100e-003        | 1.2600e-003        | 69.0201         |
| Industrial Park         | 611912      | 3.3000e-003   | 0.0300        | 0.0252        | 1.8000e-004        | 2.2800e-003   | 2.2800e-003   | 2.2800e-003   | 0.0000        | 32.6540         | 32.6540         | 6.3000e-004        | 6.0000e-004        | 32.8527         |
| Single Family Housing   | 3.79196e+06 | 0.0205        | 0.1747        | 0.0744        | 1.1200e-003        | 0.0141        | 0.0141        | 0.0141        | 0.0000        | 202.3535        | 202.3535        | 3.8800e-003        | 3.7100e-003        | 203.5850        |
| Strip Mall              | 1.0704e+06  | 5.7700e-003   | 0.0525        | 0.0441        | 3.1000e-004        | 3.9900e-003   | 3.9900e-003   | 3.9900e-003   | 0.0000        | 57.1206         | 57.1206         | 1.0900e-003        | 1.0500e-003        | 57.4683         |
| Apartments Low Rise     | 1.82827e+06 | 9.8600e-003   | 0.0842        | 0.0359        | 5.4000e-004        | 6.8100e-003   | 6.8100e-003   | 6.8100e-003   | 0.0000        | 97.5632         | 97.5632         | 1.8700e-003        | 1.7900e-003        | 98.1570         |
| <b>Total</b>            |             | <b>0.0463</b> | <b>0.4045</b> | <b>0.2324</b> | <b>2.5300e-003</b> | <b>0.0320</b> | <b>0.0320</b> | <b>0.0320</b> | <b>0.0000</b> | <b>458.2939</b> | <b>458.2939</b> | <b>8.7800e-003</b> | <b>8.4100e-003</b> | <b>461.0830</b> |

### 5.3 Energy by Land Use - Electricity

#### Unmitigated

| Land Use                | Electricity Use<br>kWh/yr | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------|---------------------------|-------------------|---------------|---------------|-------------------|
| Apartments Low Rise     | 476402                    | 138.5908          | 6.2700e-003   | 1.3000e-003   | 139.1243          |
| City Park               | 0                         | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| General Office Building | 948244                    | 275.8551          | 0.0125        | 2.5800e-003   | 276.9170          |
| Industrial Park         | 451352                    | 131.3035          | 5.9400e-003   | 1.2300e-003   | 131.8090          |
| Single Family Housing   | 927309                    | 269.7648          | 0.0122        | 2.5200e-003   | 270.8033          |
| Strip Mall              | 876480                    | 254.9781          | 0.0115        | 2.3900e-003   | 255.9597          |
| <b>Total</b>            |                           | <b>1,070.4921</b> | <b>0.0484</b> | <b>0.0100</b> | <b>1,074.6132</b> |

#### Mitigated

|                         | Electricity Use | Total CO2         | CH4           | N2O           | CO2e              |
|-------------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use                | KWh/yr          | MT/yr             |               |               |                   |
| Apartment Low Rise      | 476402          | 138.5908          | 6.2700e-003   | 1.3000e-003   | 139.1243          |
| City Park               | 0               | 0.0000            | 0.0000        | 0.0000        | 0.0000            |
| General Office Building | 948244          | 275.8551          | 0.0125        | 2.5800e-003   | 276.9170          |
| Industrial Park         | 451352          | 131.3035          | 5.9400e-003   | 1.2300e-003   | 131.8090          |
| Single Family Housing   | 927309          | 269.7648          | 0.0122        | 2.5200e-003   | 270.8033          |
| Strip Mall              | 876480          | 254.9781          | 0.0115        | 2.3900e-003   | 255.9597          |
| <b>Total</b>            |                 | <b>1,070.4921</b> | <b>0.0484</b> | <b>0.0100</b> | <b>1,074.6132</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

| Category    | tons/yr |        |        |             |               |              |            |                |               |             |          | MT/yr     |           |             |        |        |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
|             | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O    | CO2e   |
| Mitigated   | 3.7432  | 0.0401 | 3.4018 | 1.8000e-004 | 0.0182        | 0.0182       | 0.0182     | 0.0182         | 0.0182        | 0.0182      | 0.0000   | 5.4556    | 5.4556    | 5.6900e-003 | 0.0000 | 5.5751 |
| Unmitigated | 3.7432  | 0.0401 | 3.4018 | 1.8000e-004 | 0.0182        | 0.0182       | 0.0182     | 0.0182         | 0.0182        | 0.0182      | 0.0000   | 5.4556    | 5.4556    | 5.6900e-003 | 0.0000 | 5.5751 |

### 6.2 Area by SubCategory

Unmitigated

| SubCategory           | ROG           | NOx           | CO            | SO2                | 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                 |               |               |               |                    |               |               |               |                |               |               |               |               |               |                    |               |               |
| Architectural Coating | 0.9384        |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 2.6957        |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 0.1091        | 0.0401        | 3.4018        | 1.8000e-004        | 0.0182        | 0.0182        | 0.0182        | 0.0182         | 0.0182        | 0.0182        | 0.0000        | 5.4556        | 5.4556        | 5.6900e-003        | 0.0000        | 5.5751        |
| <b>Total</b>          | <b>3.7432</b> | <b>0.0401</b> | <b>3.4018</b> | <b>1.8000e-004</b> |               | <b>0.0182</b> | <b>0.0182</b> |                | <b>0.0182</b> | <b>0.0182</b> | <b>0.0000</b> | <b>5.4556</b> | <b>5.4556</b> | <b>5.6900e-003</b> | <b>0.0000</b> | <b>5.5751</b> |

**Mitigated**

| SubCategory           | ROG           | NOx           | CO            | SO2                | 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                 |               |               |               |                    |               |               |               |                |               |               |               |               |               |                    |               |               |
| Architectural Coating | 0.9384        |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Consumer Products     | 2.6957        |               |               |                    | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Landscaping           | 0.1091        | 0.0401        | 3.4018        | 1.8000e-004        | 0.0182        | 0.0182        | 0.0182        | 0.0182         | 0.0182        | 0.0182        | 0.0000        | 5.4556        | 5.4556        | 5.6900e-003        | 0.0000        | 5.5751        |
| <b>Total</b>          | <b>3.7432</b> | <b>0.0401</b> | <b>3.4018</b> | <b>1.8000e-004</b> |               | <b>0.0182</b> | <b>0.0182</b> |                | <b>0.0182</b> | <b>0.0182</b> | <b>0.0000</b> | <b>5.4556</b> | <b>5.4556</b> | <b>5.6900e-003</b> | <b>0.0000</b> | <b>5.5751</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MIT/yr    |        |        |          |
| Mitigated   | 122.9019  | 1.6351 | 0.0394 | 169.4665 |
| Unmitigated | 122.9019  | 1.6354 | 0.0395 | 169.4918 |

## 7.2 Water by Land Use

### Unmitigated

| Land Use                | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|-------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Apartment Low Rise      | 8.0791 / 5.09335   | 20.4666         | 0.2641        | 6.3800e-003   | 27.9909         |
| City Park               | 10 / 3.12168       | 3.1785          | 1.4000e-004   | 3.0000e-005   | 3.1907          |
| General Office Building | 16.6537 / 10.2071  | 41.8911         | 0.5443        | 0.0132        | 57.4000         |
| Industrial Park         | 10.3138 / 7.0      | 19.5072         | 0.3368        | 8.0900e-003   | 29.0872         |
| Single Family Housing   | 7.88364 / 4.97012  | 19.9715         | 0.2577        | 6.2300e-003   | 27.3137         |
| Strip Mall              | 7.11096 / 4.35833  | 17.8871         | 0.2324        | 5.6200e-003   | 24.5093         |
| <b>Total</b>            |                    | <b>122.9019</b> | <b>1.6354</b> | <b>0.0395</b> | <b>169.4918</b> |

### Mitigated

| Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|--------------------|-----------|-----|-----|------|
|                    |           |     |     |      |

| Land Use                | Mgal            | MT/yr           |
|-------------------------|-----------------|-----------------|
| Apartment Low Rise      | 8.07917         | 20.4666         |
| City Park               | 5.09335         | 0.2640          |
| General Office Building | 1073.12168      | 3.1785          |
| Industrial Park         | 16.65377        | 41.8911         |
| Single Family Housing   | 10.2071         | 0.5442          |
| Strip Mall              | 110.313870      | 19.5072         |
|                         | 7.883647        | 19.9715         |
|                         | 4.97012         | 0.2576          |
|                         | 7.110967        | 0.2324          |
|                         | 4.35833         | 0.3368          |
| <b>Total</b>            | <b>122.9019</b> | <b>1.6351</b>   |
|                         |                 | <b>0.0394</b>   |
|                         |                 | <b>169.4665</b> |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

#### Category/Year

| Total CO2   | CH4     | N2O    | CO2e     |
|-------------|---------|--------|----------|
| MT/yr       |         |        |          |
| Unmitigated | 89.7971 | 5.3069 | 0.0000   |
| Mitigated   | 89.7971 | 5.3069 | 0.0000   |
|             |         |        | 201.2411 |
|             |         |        | 201.2411 |

### 8.2 Waste by Land Use

#### Unmitigated

| Land Use                | Waste Disposed<br>tons | Total CO2      |               |               | CO2e            |
|-------------------------|------------------------|----------------|---------------|---------------|-----------------|
|                         |                        | CH4            | N2O           | CO2e          |                 |
| MIT/yr                  |                        |                |               |               |                 |
| Apartments Low Rise     | 57.04                  | 11.5786        | 0.6843        | 0.0000        | 25.9484         |
| City Park               | 0.23                   | 0.0467         | 2.7600e-003   | 0.0000        | 0.1046          |
| General Office Building | 87.14                  | 17.6886        | 1.0454        | 0.0000        | 39.6414         |
| Industrial Park         | 55.3                   | 11.2254        | 0.6634        | 0.0000        | 25.1569         |
| Single Family Housing   | 141.86                 | 28.7963        | 1.7018        | 0.0000        | 64.5344         |
| Strip Mall              | 100.8                  | 20.4615        | 1.2092        | 0.0000        | 45.8555         |
| <b>Total</b>            |                        | <b>89.7971</b> | <b>5.3069</b> | <b>0.0000</b> | <b>201.2411</b> |

**Mitigated**

| Land Use                | Waste Disposed<br>tons | Total CO2      |               |               | CO2e            |
|-------------------------|------------------------|----------------|---------------|---------------|-----------------|
|                         |                        | CH4            | N2O           | CO2e          |                 |
| MIT/yr                  |                        |                |               |               |                 |
| Apartments Low Rise     | 57.04                  | 11.5786        | 0.6843        | 0.0000        | 25.9484         |
| City Park               | 0.23                   | 0.0467         | 2.7600e-003   | 0.0000        | 0.1046          |
| General Office Building | 87.14                  | 17.6886        | 1.0454        | 0.0000        | 39.6414         |
| Industrial Park         | 55.3                   | 11.2254        | 0.6634        | 0.0000        | 25.1569         |
| Single Family Housing   | 141.86                 | 28.7963        | 1.7018        | 0.0000        | 64.5344         |
| Strip Mall              | 100.8                  | 20.4615        | 1.2092        | 0.0000        | 45.8555         |
| <b>Total</b>            |                        | <b>89.7971</b> | <b>5.3069</b> | <b>0.0000</b> | <b>201.2411</b> |

## 9.0 Operational Offroad

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

## 10.0 Vegetation

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