

## Appendix A: Air Quality Analysis

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# **619–625 California Drive Development Project**

## **CalEEMod Output**

|                                                                                |              |
|--------------------------------------------------------------------------------|--------------|
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619-625 CA Drive Development - Project Operations + Unmitigated Construction - San Mateo County, Annual

## 619-625 CA Drive Development - Project Operations + Unmitigated Construction

### San Mateo County, Annual

### 1.0 Project Characteristics

#### 1.1 Land Usage

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

#### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 70    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2020  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW hr) | 491.65                         | CH4 Intensity<br>(lb/MW hr) | 0.022 | N2O Intensity<br>(lb/MW hr) | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Unmitigated Construction  
 Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan  
 26-unit live-work building with space for commercial occupancy  
 12 at-grade parking and 22 spaces in vehicle lifts

Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

| Table Name                | Column Name                  | Default Value | New Value        |
|---------------------------|------------------------------|---------------|------------------|
| tblConstDustMitigation    | WaterUnpavedRoadVehicleSpeed | 0             | 15               |
| tblConstructionPhase      | NumDays                      | 10.00         | 8.00             |
| tblConstructionPhase      | NumDays                      | 1.00          | 21.00            |
| tblConstructionPhase      | NumDays                      | 2.00          | 7.00             |
| tblConstructionPhase      | NumDays                      | 100.00        | 320.00           |
| tblConstructionPhase      | NumDays                      | 5.00          | 3.00             |
| tblConstructionPhase      | NumDays                      | 5.00          | 14.00            |
| tblFireplaces             | FireplaceWoodMass            | 228.80        | 0.00             |
| tblFireplaces             | NumberWood                   | 4.42          | 0.00             |
| tblGrading                | AcresOfGrading               | 0.00          | 4.50             |
| tblGrading                | MaterialExported             | 0.00          | 1,255.00         |
| tblLandUse                | LandUseSquareFeet            | 5,227.20      | 0.00             |
| tblLandUse                | LandUseSquareFeet            | 26,000.00     | 42,174.00        |
| tblLandUse                | LotAcreage                   | 0.68          | 0.17             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 2.00          | 1.00             |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Grading          |
| tblOffRoadEquipment       | UsageHours                   | 6.00          | 0.60             |
| tblProjectCharacteristics | CH4IntensityFactor           | 0.029         | 0.022            |

|                           |                    |        |        |
|---------------------------|--------------------|--------|--------|
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 491.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006  | 0.005  |
| tblVehicleTrips           | ST_TR              | 6.39   | 4.62   |
| tblVehicleTrips           | ST_TR              | 49.97  | 31.90  |
| tblVehicleTrips           | SU_TR              | 5.86   | 4.62   |
| tblVehicleTrips           | SU_TR              | 25.24  | 31.90  |
| tblVehicleTrips           | WD_TR              | 6.65   | 4.62   |
| tblVehicleTrips           | WD_TR              | 42.70  | 31.90  |

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.1069  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0361        | 0.0586       | 0.0947     | 9.1800e-003    | 0.0540        | 0.0631      | 0.0000   | 155.8877  | 155.8877  | 0.0399 | 0.0000 | 156.8861 |
| 2020    | 0.3465  | 0.3793 | 0.3238 | 6.0000e-004 | 9.5200e-003   | 0.0198       | 0.0293     | 2.5600e-003    | 0.0183        | 0.0209      | 0.0000   | 53.5694   | 53.5694   | 0.0136 | 0.0000 | 53.9083  |
| Maximum | 0.3465  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0361        | 0.0586       | 0.0947     | 9.1800e-003    | 0.0540        | 0.0631      | 0.0000   | 155.8877  | 155.8877  | 0.0399 | 0.0000 | 156.8861 |

#### Mitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.1069  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0297        | 0.0586       | 0.0883     | 7.7500e-003    | 0.0540        | 0.0617      | 0.0000   | 155.8876  | 155.8876  | 0.0399 | 0.0000 | 156.8859 |
| 2020    | 0.3465  | 0.3793 | 0.3238 | 6.0000e-004 | 9.5200e-003   | 0.0198       | 0.0293     | 2.5600e-003    | 0.0183        | 0.0209      | 0.0000   | 53.5694   | 53.5694   | 0.0136 | 0.0000 | 53.9082  |
| Maximum | 0.3465  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0297        | 0.0586       | 0.0883     | 7.7500e-003    | 0.0540        | 0.0617      | 0.0000   | 155.8876  | 155.8876  | 0.0399 | 0.0000 | 156.8859 |

  

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 14.04         | 0.00         | 5.16       | 12.18          | 0.00          | 1.70        | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019  | 0.3321                                       | 0.3321                                     |
| 2       | 4-1-2019   | 6-30-2019  | 0.2970                                       | 0.2970                                     |
| 3       | 7-1-2019   | 9-30-2019  | 0.3002                                       | 0.3002                                     |
| 4       | 10-1-2019  | 12-31-2019 | 0.3011                                       | 0.3011                                     |
| 5       | 1-1-2020   | 3-31-2020  | 0.2680                                       | 0.2680                                     |
| 6       | 4-1-2020   | 6-30-2020  | 0.4610                                       | 0.4610                                     |
|         |            | Highest    | 0.4610                                       | 0.4610                                     |

## 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     | 0.2121      | 2.9600e-003 | 0.2126      | 7.0000e-005 |               | 4.1300e-003  | 4.1300e-003 |                | 4.1300e-003   | 4.1300e-003 | 0.4055   | 0.8025    | 1.2080    | 2.2100e-003 | 1.0000e-005 | 1.2660   |
| Energy   | 1.2800e-003 | 0.0109      | 4.8500e-003 | 7.0000e-005 |               | 8.8000e-004  | 8.8000e-004 |                | 8.8000e-004   | 8.8000e-004 | 0.0000   | 48.2894   | 48.2894   | 1.8400e-003 | 5.9000e-004 | 48.5124  |
| Mobile   | 0.0475      | 0.1475      | 0.5191      | 1.6500e-003 | 0.1464        | 1.8100e-003  | 0.1482      | 0.0393         | 1.7000e-003   | 0.0410      | 0.0000   | 150.4950  | 150.4950  | 5.7000e-003 | 0.0000      | 150.6375 |
| Waste    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 2.8764   | 0.0000    | 2.8764    | 0.1700      | 0.0000      | 7.1261   |
| Water    |             |             |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.5868   | 3.1399    | 3.7266    | 0.0604      | 1.4500e-003 | 5.6704   |
| Total    | 0.2609      | 0.1613      | 0.7365      | 1.7900e-003 | 0.1464        | 6.8200e-003  | 0.1532      | 0.0393         | 6.7100e-003   | 0.0461      | 3.8687   | 202.7267  | 206.5954  | 0.2402      | 2.0500e-003 | 213.2125 |



### 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         | 0.2120        | 2.9500e-003   | 0.2112        | 7.0000e-005        |               | 4.1200e-003        | 4.1200e-003   |                | 4.1200e-003        | 4.1200e-003   | 0.4055        | 0.7996          | 1.2052          | 2.2100e-003   | 1.0000e-005        | 1.2630          |
| Energy       | 1.2800e-003   | 0.0109        | 4.8500e-003   | 7.0000e-005        |               | 8.8000e-004        | 8.8000e-004   |                | 8.8000e-004        | 8.8000e-004   | 0.0000        | 48.2894         | 48.2894         | 1.8400e-003   | 5.9000e-004        | 48.5124         |
| Mobile       | 0.0475        | 0.1475        | 0.5191        | 1.6500e-003        | 0.1464        | 1.8100e-003        | 0.1482        | 0.0393         | 1.7000e-003        | 0.0410        | 0.0000        | 150.4950        | 150.4950        | 5.7000e-003   | 0.0000             | 150.6375        |
| Waste        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 2.8764        | 0.0000          | 2.8764          | 0.1700        | 0.0000             | 7.1261          |
| Water        |               |               |               |                    |               | 0.0000             | 0.0000        |                | 0.0000             | 0.0000        | 0.5868        | 3.1399          | 3.7266          | 0.0604        | 1.4500e-003        | 5.6704          |
| <b>Total</b> | <b>0.2608</b> | <b>0.1613</b> | <b>0.7351</b> | <b>1.7900e-003</b> | <b>0.1464</b> | <b>6.8100e-003</b> | <b>0.1532</b> | <b>0.0393</b>  | <b>6.7000e-003</b> | <b>0.0460</b> | <b>3.8687</b> | <b>202.7239</b> | <b>206.5926</b> | <b>0.2402</b> | <b>2.0500e-003</b> | <b>213.2095</b> |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.03 | 0.01 | 0.19 | 0.00 | 0.00          | 0.15         | 0.01       | 0.00           | 0.15          | 0.02        | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

Acres of Grading (Site Preparation Phase): 4.5

Acres of Grading (Grading Phase): 4.5

Acres of Paving: 0.23

Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking

### OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 4.1600e-003        | 0.0000             | 4.1600e-003        | 6.3000e-004        | 0.0000             | 6.3000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.4800e-003        | 0.0355        | 0.0399        | 6.0000e-005        |                    | 1.9700e-003        | 1.9700e-003        |                    | 1.8100e-003        | 1.8100e-003        | 0.0000        | 5.3835        | 5.3835        | 1.7000e-003        | 0.0000        | 5.4261        |
| <b>Total</b>  | <b>3.4800e-003</b> | <b>0.0355</b> | <b>0.0399</b> | <b>6.0000e-005</b> | <b>4.1600e-003</b> | <b>1.9700e-003</b> | <b>6.1300e-003</b> | <b>6.3000e-004</b> | <b>1.8100e-003</b> | <b>2.4400e-003</b> | <b>0.0000</b> | <b>5.3835</b> | <b>5.3835</b> | <b>1.7000e-003</b> | <b>0.0000</b> | <b>5.4261</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.9000e-004        | 6.6400e-003        | 2.5500e-003        | 2.0000e-005        | 3.2000e-004        | 3.0000e-005        | 3.4000e-004        | 9.0000e-005        | 3.0000e-005        | 1.1000e-004        | 0.0000        | 1.6097        | 1.6097        | 2.0000e-004        | 0.0000        | 1.6146        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2000e-004        | 8.0000e-005        | 8.6000e-004        | 0.0000             | 3.1000e-004        | 0.0000             | 3.2000e-004        | 8.0000e-005        | 0.0000             | 9.0000e-005        | 0.0000        | 0.2708        | 0.2708        | 1.0000e-005        | 0.0000        | 0.2710        |
| <b>Total</b> | <b>3.1000e-004</b> | <b>6.7200e-003</b> | <b>3.4100e-003</b> | <b>2.0000e-005</b> | <b>6.3000e-004</b> | <b>3.0000e-005</b> | <b>6.6000e-004</b> | <b>1.7000e-004</b> | <b>3.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>1.8805</b> | <b>1.8805</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.8856</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 |                    |               |               |                    | 1.8700e-003        | 0.0000             | 1.8700e-003        | 2.8000e-004        | 0.0000             | 2.8000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.4800e-003        | 0.0355        | 0.0399        | 6.0000e-005        |                    | 1.9700e-003        | 1.9700e-003        |                    | 1.8100e-003        | 1.8100e-003        | 0.0000        | 5.3835        | 5.3835        | 1.7000e-003        | 0.0000        | 5.4260        |
| <b>Total</b>  | <b>3.4800e-003</b> | <b>0.0355</b> | <b>0.0399</b> | <b>6.0000e-005</b> | <b>1.8700e-003</b> | <b>1.9700e-003</b> | <b>3.8400e-003</b> | <b>2.8000e-004</b> | <b>1.8100e-003</b> | <b>2.0900e-003</b> | <b>0.0000</b> | <b>5.3835</b> | <b>5.3835</b> | <b>1.7000e-003</b> | <b>0.0000</b> | <b>5.4260</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.9000e-004        | 6.6400e-003        | 2.5500e-003        | 2.0000e-005        | 3.2000e-004        | 3.0000e-005        | 3.4000e-004        | 9.0000e-005        | 3.0000e-005        | 1.1000e-004        | 0.0000        | 1.6097        | 1.6097        | 2.0000e-004        | 0.0000        | 1.6146        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2000e-004        | 8.0000e-005        | 8.6000e-004        | 0.0000             | 3.1000e-004        | 0.0000             | 3.2000e-004        | 8.0000e-005        | 0.0000             | 9.0000e-005        | 0.0000        | 0.2708        | 0.2708        | 1.0000e-005        | 0.0000        | 0.2710        |
| <b>Total</b> | <b>3.1000e-004</b> | <b>6.7200e-003</b> | <b>3.4100e-003</b> | <b>2.0000e-005</b> | <b>6.3000e-004</b> | <b>3.0000e-005</b> | <b>6.6000e-004</b> | <b>1.7000e-004</b> | <b>3.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>1.8805</b> | <b>1.8805</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.8856</b> |

## 3.3 Site Preparation - 2019

### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 2.4600e-003        | 0.0000             | 2.4600e-003        | 2.7000e-004        | 0.0000             | 2.7000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 8.1200e-003        | 0.0915        | 0.0801        | 1.9000e-004        |                    | 4.1000e-003        | 4.1000e-003        |                    | 3.7700e-003        | 3.7700e-003        | 0.0000        | 16.6307        | 16.6307        | 5.2600e-003        | 0.0000        | 16.7623        |
| <b>Total</b>  | <b>8.1200e-003</b> | <b>0.0915</b> | <b>0.0801</b> | <b>1.9000e-004</b> | <b>2.4600e-003</b> | <b>4.1000e-003</b> | <b>6.5600e-003</b> | <b>2.7000e-004</b> | <b>3.7700e-003</b> | <b>4.0400e-003</b> | <b>0.0000</b> | <b>16.6307</b> | <b>16.6307</b> | <b>5.2600e-003</b> | <b>0.0000</b> | <b>16.7623</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      | 7.9000e-004        | 0.0274        | 0.0105        | 7.0000e-005        | 1.3100e-003        | 1.1000e-004        | 1.4200e-003        | 3.6000e-004        | 1.0000e-004        | 4.7000e-004        | 0.0000        | 6.6505        | 6.6505        | 8.1000e-004        | 0.0000        | 6.6708        |
| 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       | 2.5000e-004        | 1.7000e-004   | 1.8000e-003   | 1.0000e-005        | 6.6000e-004        | 0.0000             | 6.7000e-004        | 1.8000e-004        | 0.0000             | 1.8000e-004        | 0.0000        | 0.5687        | 0.5687        | 1.0000e-005        | 0.0000        | 0.5690        |
| <b>Total</b> | <b>1.0400e-003</b> | <b>0.0276</b> | <b>0.0123</b> | <b>8.0000e-005</b> | <b>1.9700e-003</b> | <b>1.1000e-004</b> | <b>2.0900e-003</b> | <b>5.4000e-004</b> | <b>1.0000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>7.2192</b> | <b>7.2192</b> | <b>8.2000e-004</b> | <b>0.0000</b> | <b>7.2398</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 |                    |               |               |                    | 1.1100e-003        | 0.0000             | 1.1100e-003        | 1.2000e-004        | 0.0000             | 1.2000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 8.1200e-003        | 0.0915        | 0.0801        | 1.9000e-004        |                    | 4.1000e-003        | 4.1000e-003        |                    | 3.7700e-003        | 3.7700e-003        | 0.0000        | 16.6307        | 16.6307        | 5.2600e-003        | 0.0000        | 16.7623        |
| <b>Total</b>  | <b>8.1200e-003</b> | <b>0.0915</b> | <b>0.0801</b> | <b>1.9000e-004</b> | <b>1.1100e-003</b> | <b>4.1000e-003</b> | <b>5.2100e-003</b> | <b>1.2000e-004</b> | <b>3.7700e-003</b> | <b>3.8900e-003</b> | <b>0.0000</b> | <b>16.6307</b> | <b>16.6307</b> | <b>5.2600e-003</b> | <b>0.0000</b> | <b>16.7623</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      | 7.9000e-004        | 0.0274        | 0.0105        | 7.0000e-005        | 1.3100e-003        | 1.1000e-004        | 1.4200e-003        | 3.6000e-004        | 1.0000e-004        | 4.7000e-004        | 0.0000        | 6.6505        | 6.6505        | 8.1000e-004        | 0.0000        | 6.6708        |
| 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       | 2.5000e-004        | 1.7000e-004   | 1.8000e-003   | 1.0000e-005        | 6.6000e-004        | 0.0000             | 6.7000e-004        | 1.8000e-004        | 0.0000             | 1.8000e-004        | 0.0000        | 0.5687        | 0.5687        | 1.0000e-005        | 0.0000        | 0.5690        |
| <b>Total</b> | <b>1.0400e-003</b> | <b>0.0276</b> | <b>0.0123</b> | <b>8.0000e-005</b> | <b>1.9700e-003</b> | <b>1.1000e-004</b> | <b>2.0900e-003</b> | <b>5.4000e-004</b> | <b>1.0000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>7.2192</b> | <b>7.2192</b> | <b>8.2000e-004</b> | <b>0.0000</b> | <b>7.2398</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 5.0200e-003        | 0.0000             | 5.0200e-003        | 1.7100e-003        | 0.0000             | 1.7100e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.6300e-003        | 0.0269        | 0.0254        | 4.0000e-005        |                    | 1.5300e-003        | 1.5300e-003        |                    | 1.4100e-003        | 1.4100e-003        | 0.0000        | 3.4232        | 3.4232        | 1.0800e-003        | 0.0000        | 3.4503        |
| <b>Total</b>  | <b>2.6300e-003</b> | <b>0.0269</b> | <b>0.0254</b> | <b>4.0000e-005</b> | <b>5.0200e-003</b> | <b>1.5300e-003</b> | <b>6.5500e-003</b> | <b>1.7100e-003</b> | <b>1.4100e-003</b> | <b>3.1200e-003</b> | <b>0.0000</b> | <b>3.4232</b> | <b>3.4232</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.4503</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0000e-004        | 7.0000e-005        | 7.5000e-004        | 0.0000        | 2.8000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2370        | 0.2370        | 1.0000e-005        | 0.0000        | 0.2371        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>7.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2370</b> | <b>0.2370</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2371</b> |

#### Mitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 2.2600e-003        | 0.0000             | 2.2600e-003        | 7.7000e-004        | 0.0000             | 7.7000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.6300e-003        | 0.0269        | 0.0254        | 4.0000e-005        |                    | 1.5300e-003        | 1.5300e-003        |                    | 1.4100e-003        | 1.4100e-003        | 0.0000        | 3.4232        | 3.4232        | 1.0800e-003        | 0.0000        | 3.4503        |
| <b>Total</b>  | <b>2.6300e-003</b> | <b>0.0269</b> | <b>0.0254</b> | <b>4.0000e-005</b> | <b>2.2600e-003</b> | <b>1.5300e-003</b> | <b>3.7900e-003</b> | <b>7.7000e-004</b> | <b>1.4100e-003</b> | <b>2.1800e-003</b> | <b>0.0000</b> | <b>3.4232</b> | <b>3.4232</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.4503</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0000e-004        | 7.0000e-005        | 7.5000e-004        | 0.0000        | 2.8000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2370        | 0.2370        | 1.0000e-005        | 0.0000        | 0.2371        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>7.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2370</b> | <b>0.2370</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2371</b> |

### 3.5 Building Construction - 2019

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0821        | 0.8759        | 0.6572        | 1.0400e-003        |               | 0.0504        | 0.0504        |                | 0.0463        | 0.0463        | 0.0000        | 93.0810        | 93.0810        | 0.0295        | 0.0000        | 93.8173        |
| <b>Total</b> | <b>0.0821</b> | <b>0.8759</b> | <b>0.6572</b> | <b>1.0400e-003</b> |               | <b>0.0504</b> | <b>0.0504</b> |                | <b>0.0463</b> | <b>0.0463</b> | <b>0.0000</b> | <b>93.0810</b> | <b>93.0810</b> | <b>0.0295</b> | <b>0.0000</b> | <b>93.8173</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 2.1400e-003        | 0.0575        | 0.0221        | 1.2000e-004        | 2.9300e-003   | 4.0000e-004        | 3.3300e-003   | 8.5000e-004        | 3.8000e-004        | 1.2300e-003        | 0.0000        | 12.0377        | 12.0377        | 1.0600e-003        | 0.0000        | 12.0643        |
| Worker       | 6.9900e-003        | 4.9200e-003   | 0.0507        | 1.8000e-004        | 0.0186        | 1.2000e-004        | 0.0187        | 4.9500e-003        | 1.1000e-004        | 5.0600e-003        | 0.0000        | 15.9949        | 15.9949        | 3.4000e-004        | 0.0000        | 16.0035        |
| <b>Total</b> | <b>9.1300e-003</b> | <b>0.0624</b> | <b>0.0728</b> | <b>3.0000e-004</b> | <b>0.0215</b> | <b>5.2000e-004</b> | <b>0.0221</b> | <b>5.8000e-003</b> | <b>4.9000e-004</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>28.0326</b> | <b>28.0326</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>28.0677</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     | 0.0821        | 0.8759        | 0.6572        | 1.0400e-003        |               | 0.0504        | 0.0504        |                | 0.0463        | 0.0463        | 0.0000        | 93.0809        | 93.0809        | 0.0295        | 0.0000        | 93.8172        |
| <b>Total</b> | <b>0.0821</b> | <b>0.8759</b> | <b>0.6572</b> | <b>1.0400e-003</b> |               | <b>0.0504</b> | <b>0.0504</b> |                | <b>0.0463</b> | <b>0.0463</b> | <b>0.0000</b> | <b>93.0809</b> | <b>93.0809</b> | <b>0.0295</b> | <b>0.0000</b> | <b>93.8172</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 2.1400e-003        | 0.0575        | 0.0221        | 1.2000e-004        | 2.9300e-003   | 4.0000e-004        | 3.3300e-003   | 8.5000e-004        | 3.8000e-004        | 1.2300e-003        | 0.0000        | 12.0377        | 12.0377        | 1.0600e-003        | 0.0000        | 12.0643        |
| Worker       | 6.9900e-003        | 4.9200e-003   | 0.0507        | 1.8000e-004        | 0.0186        | 1.2000e-004        | 0.0187        | 4.9500e-003        | 1.1000e-004        | 5.0600e-003        | 0.0000        | 15.9949        | 15.9949        | 3.4000e-004        | 0.0000        | 16.0035        |
| <b>Total</b> | <b>9.1300e-003</b> | <b>0.0624</b> | <b>0.0728</b> | <b>3.0000e-004</b> | <b>0.0215</b> | <b>5.2000e-004</b> | <b>0.0221</b> | <b>5.8000e-003</b> | <b>4.9000e-004</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>28.0326</b> | <b>28.0326</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>28.0677</b> |

## 3.5 Building Construction - 2020

### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0312        | 0.3327        | 0.2710        | 4.4000e-004        |               | 0.0183        | 0.0183        |                | 0.0168        | 0.0168        | 0.0000        | 38.4389        | 38.4389        | 0.0124        | 0.0000        | 38.7497        |
| <b>Total</b> | <b>0.0312</b> | <b>0.3327</b> | <b>0.2710</b> | <b>4.4000e-004</b> |               | <b>0.0183</b> | <b>0.0183</b> |                | <b>0.0168</b> | <b>0.0168</b> | <b>0.0000</b> | <b>38.4389</b> | <b>38.4389</b> | <b>0.0124</b> | <b>0.0000</b> | <b>38.7497</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       | 7.4000e-004        | 0.0220        | 8.7700e-003   | 5.0000e-005        | 1.2400e-003        | 1.1000e-004        | 1.3500e-003        | 3.6000e-004        | 1.1000e-004        | 4.6000e-004        | 0.0000        | 5.0349         | 5.0349         | 4.4000e-004        | 0.0000        | 5.0458         |
| Worker       | 2.7200e-003        | 1.8400e-003   | 0.0194        | 7.0000e-005        | 7.8500e-003        | 5.0000e-005        | 7.9000e-003        | 2.0900e-003        | 5.0000e-005        | 2.1400e-003        | 0.0000        | 6.5389         | 6.5389         | 1.3000e-004        | 0.0000        | 6.5421         |
| <b>Total</b> | <b>3.4600e-003</b> | <b>0.0239</b> | <b>0.0282</b> | <b>1.2000e-004</b> | <b>9.0900e-003</b> | <b>1.6000e-004</b> | <b>9.2500e-003</b> | <b>2.4500e-003</b> | <b>1.6000e-004</b> | <b>2.6000e-003</b> | <b>0.0000</b> | <b>11.5738</b> | <b>11.5738</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>11.5879</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     | 0.0312        | 0.3327        | 0.2710        | 4.4000e-004        |               | 0.0183        | 0.0183        |                | 0.0168        | 0.0168        | 0.0000        | 38.4388        | 38.4388        | 0.0124        | 0.0000        | 38.7496        |
| <b>Total</b> | <b>0.0312</b> | <b>0.3327</b> | <b>0.2710</b> | <b>4.4000e-004</b> |               | <b>0.0183</b> | <b>0.0183</b> |                | <b>0.0168</b> | <b>0.0168</b> | <b>0.0000</b> | <b>38.4388</b> | <b>38.4388</b> | <b>0.0124</b> | <b>0.0000</b> | <b>38.7496</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       | 7.4000e-004        | 0.0220        | 8.7700e-003   | 5.0000e-005        | 1.2400e-003        | 1.1000e-004        | 1.3500e-003        | 3.6000e-004        | 1.1000e-004        | 4.6000e-004        | 0.0000        | 5.0349         | 5.0349         | 4.4000e-004        | 0.0000        | 5.0458         |
| Worker       | 2.7200e-003        | 1.8400e-003   | 0.0194        | 7.0000e-005        | 7.8500e-003        | 5.0000e-005        | 7.9000e-003        | 2.0900e-003        | 5.0000e-005        | 2.1400e-003        | 0.0000        | 6.5389         | 6.5389         | 1.3000e-004        | 0.0000        | 6.5421         |
| <b>Total</b> | <b>3.4600e-003</b> | <b>0.0239</b> | <b>0.0282</b> | <b>1.2000e-004</b> | <b>9.0900e-003</b> | <b>1.6000e-004</b> | <b>9.2500e-003</b> | <b>2.4500e-003</b> | <b>1.6000e-004</b> | <b>2.6000e-003</b> | <b>0.0000</b> | <b>11.5738</b> | <b>11.5738</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>11.5879</b> |

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.1600e-003        | 0.0108        | 0.0107        | 2.0000e-005        |               | 5.9000e-004        | 5.9000e-004        |                | 5.5000e-004        | 5.5000e-004        | 0.0000        | 1.4089        | 1.4089        | 4.1000e-004        | 0.0000        | 1.4192        |
| 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>1.1600e-003</b> | <b>0.0108</b> | <b>0.0107</b> | <b>2.0000e-005</b> |               | <b>5.9000e-004</b> | <b>5.9000e-004</b> |                | <b>5.5000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>1.4089</b> | <b>1.4089</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.4192</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.3000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1770        | 0.1770        | 0.0000        | 0.0000        | 0.1771        |
| <b>Total</b> | <b>7.0000e-005</b> | <b>5.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1770</b> | <b>0.1770</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1771</b> |

#### Mitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.1600e-003        | 0.0108        | 0.0107        | 2.0000e-005        |               | 5.9000e-004        | 5.9000e-004        |                | 5.5000e-004        | 5.5000e-004        | 0.0000        | 1.4089        | 1.4089        | 4.1000e-004        | 0.0000        | 1.4192        |
| 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>1.1600e-003</b> | <b>0.0108</b> | <b>0.0107</b> | <b>2.0000e-005</b> |               | <b>5.9000e-004</b> | <b>5.9000e-004</b> |                | <b>5.5000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>1.4089</b> | <b>1.4089</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.4192</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.3000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1770        | 0.1770        | 0.0000        | 0.0000        | 0.1771        |
| <b>Total</b> | <b>7.0000e-005</b> | <b>5.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1770</b> | <b>0.1770</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1771</b> |

### **3.7 Architectural Coating - 2020**

#### Unmitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3088        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.7000e-003   | 0.0118        | 0.0128        | 2.0000e-005        |               | 7.8000e-004        | 7.8000e-004        |                | 7.8000e-004        | 7.8000e-004        | 0.0000        | 1.7873        | 1.7873        | 1.4000e-004        | 0.0000        | 1.7907        |
| <b>Total</b>    | <b>0.3105</b> | <b>0.0118</b> | <b>0.0128</b> | <b>2.0000e-005</b> |               | <b>7.8000e-004</b> | <b>7.8000e-004</b> |                | <b>7.8000e-004</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>1.7873</b> | <b>1.7873</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.7907</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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.2000e-004        | 0.0000        | 2.2000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1836        | 0.1836        | 0.0000        | 0.0000        | 0.1836        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1836</b> | <b>0.1836</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1836</b> |

### Mitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3088        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.7000e-003   | 0.0118        | 0.0128        | 2.0000e-005        |               | 7.8000e-004        | 7.8000e-004        |                | 7.8000e-004        | 7.8000e-004        | 0.0000        | 1.7873        | 1.7873        | 1.4000e-004        | 0.0000        | 1.7907        |
| <b>Total</b>    | <b>0.3105</b> | <b>0.0118</b> | <b>0.0128</b> | <b>2.0000e-005</b> |               | <b>7.8000e-004</b> | <b>7.8000e-004</b> |                | <b>7.8000e-004</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>1.7873</b> | <b>1.7873</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.7907</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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.2000e-004        | 0.0000        | 2.2000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1836        | 0.1836        | 0.0000        | 0.0000        | 0.1836        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1836</b> | <b>0.1836</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1836</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   | 0.0475  | 0.1475 | 0.5191 | 1.6500e-003 | 0.1464        | 1.8100e-003  | 0.1482     | 0.0393         | 1.7000e-003   | 0.0410      | 0.0000   | 150.4950  | 150.4950  | 5.7000e-003 | 0.0000 | 150.6375 |
| Unmitigated | 0.0475  | 0.1475 | 0.5191 | 1.6500e-003 | 0.1464        | 1.8100e-003  | 0.1482     | 0.0393         | 1.7000e-003   | 0.0410      | 0.0000   | 150.4950  | 150.4950  | 5.7000e-003 | 0.0000 | 150.6375 |

## 4.2 Trip Summary Information

| Land Use                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|--------------------------------|-------------------------|----------|--------|-------------|------------|
|                                | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Apartments Mid Rise            | 120.12                  | 120.12   | 120.12 | 277,430     | 277,430    |
| Enclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Other Non-Asphalt Surfaces     | 0.00                    | 0.00     | 0.00   |             |            |
| Regional Shopping Center       | 66.99                   | 66.99    | 66.99  | 117,454     | 117,454    |
| Total                          | 187.11                  | 187.11   | 187.11 | 394,884     | 394,884    |

## 4.3 Trip Type Information

| Land Use                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise            | 10.80      | 4.80       | 5.70        | 31.00      | 15.00      | 54.00       | 86             | 11       | 3       |
| Enclosed Parking with Elevator | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces     | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Regional Shopping Center       | 9.50       | 7.30       | 7.30        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

## 4.4 Fleet Mix

| Land Use                       | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise            | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Enclosed Parking with Elevator | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Other Non-Asphalt Surfaces     | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Regional Shopping Center       | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                         | ROG         | NOx    | CO          | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|-------------------------|-------------|--------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category                | tons/yr     |        |             |             |               |              |             |                |               |             | MT/yr    |           |           |             |             |         |
| Electricity Mitigated   |             |        |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 35.6608   | 35.6608   | 1.6000e-003 | 3.6000e-004 | 35.8088 |
| Electricity Unmitigated |             |        |             |             |               | 0.0000       | 0.0000      |                | 0.0000        | 0.0000      | 0.0000   | 35.6608   | 35.6608   | 1.6000e-003 | 3.6000e-004 | 35.8088 |
| NaturalGas Mitigated    | 1.2800e-003 | 0.0109 | 4.8500e-003 | 7.0000e-005 |               | 8.8000e-004  | 8.8000e-004 |                | 8.8000e-004   | 8.8000e-004 | 0.0000   | 12.6286   | 12.6286   | 2.4000e-004 | 2.3000e-004 | 12.7037 |
| NaturalGas Unmitigated  | 1.2800e-003 | 0.0109 | 4.8500e-003 | 7.0000e-005 |               | 8.8000e-004  | 8.8000e-004 |                | 8.8000e-004   | 8.8000e-004 | 0.0000   | 12.6286   | 12.6286   | 2.4000e-004 | 2.3000e-004 | 12.7037 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                | NaturalGas Use | ROG                | NOx           | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|----------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr        | tons/yr            |               |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |                    |                |
| Apartments Mid Rise            | 226991         | 1.2200e-003        | 0.0105        | 4.4500e-003        | 7.0000e-005        |               | 8.5000e-004        | 8.5000e-004        |                | 8.5000e-004        | 8.5000e-004        | 0.0000        | 12.1131        | 12.1131        | 2.3000e-004        | 2.2000e-004        | 12.1851        |
| Enclosed Parking with Elevator | 0              | 0.0000             | 0.0000        | 0.0000             | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0              | 0.0000             | 0.0000        | 0.0000             | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 9660           | 5.0000e-005        | 4.7000e-004   | 4.0000e-004        | 0.0000             |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.5155         | 0.5155         | 1.0000e-005        | 1.0000e-005        | 0.5186         |
| <b>Total</b>                   |                | <b>1.2700e-003</b> | <b>0.0109</b> | <b>4.8500e-003</b> | <b>7.0000e-005</b> |               | <b>8.9000e-004</b> | <b>8.9000e-004</b> |                | <b>8.9000e-004</b> | <b>8.9000e-004</b> | <b>0.0000</b> | <b>12.6286</b> | <b>12.6286</b> | <b>2.4000e-004</b> | <b>2.3000e-004</b> | <b>12.7037</b> |

## Mitigated

|                                | Natural Gas Use | ROG                | NOx           | CO                 | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|-----------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr         | tons/yr            |               |                    |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |                    |                    |                |
| Apartments Mid Rise            | 226991          | 1.2200e-003        | 0.0105        | 4.4500e-003        | 7.0000e-005        |               | 8.5000e-004        | 8.5000e-004        |                | 8.5000e-004        | 8.5000e-004        | 0.0000        | 12.1131        | 12.1131        | 2.3000e-004        | 2.2000e-004        | 12.1851        |
| Enclosed Parking with Elevator | 0               | 0.0000             | 0.0000        | 0.0000             | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0               | 0.0000             | 0.0000        | 0.0000             | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 9660            | 5.0000e-005        | 4.7000e-004   | 4.0000e-004        | 0.0000             |               | 4.0000e-005        | 4.0000e-005        |                | 4.0000e-005        | 4.0000e-005        | 0.0000        | 0.5155         | 0.5155         | 1.0000e-005        | 1.0000e-005        | 0.5186         |
| <b>Total</b>                   |                 | <b>1.2700e-003</b> | <b>0.0109</b> | <b>4.8500e-003</b> | <b>7.0000e-005</b> |               | <b>8.9000e-004</b> | <b>8.9000e-004</b> |                | <b>8.9000e-004</b> | <b>8.9000e-004</b> | <b>0.0000</b> | <b>12.6286</b> | <b>12.6286</b> | <b>2.4000e-004</b> | <b>2.3000e-004</b> | <b>12.7037</b> |

## 5.3 Energy by Land Use - Electricity

### Unmitigated

|                                | Electricity Use | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|-----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kWh/yr          | MT/yr          |                    |                    |                |
| Apartments Mid Rise            | 109772          | 24.4801        | 1.1000e-003        | 2.5000e-004        | 24.5816        |
| Enclosed Parking with Elevator | 28128           | 6.2728         | 2.8000e-004        | 6.0000e-005        | 6.2988         |
| Other Non-Asphalt Surfaces     | 0               | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 22008           | 4.9080         | 2.2000e-004        | 5.0000e-005        | 4.9283         |
| <b>Total</b>                   |                 | <b>35.6608</b> | <b>1.6000e-003</b> | <b>3.6000e-004</b> | <b>35.8088</b> |

Mitigated

|                                | Electricity Use | Total CO2 | CH4         | N2O         | CO2e    |
|--------------------------------|-----------------|-----------|-------------|-------------|---------|
| Land Use                       | kWh/yr          | MT/yr     |             |             |         |
| Apartments Mid Rise            | 109772          | 24.4801   | 1.1000e-003 | 2.5000e-004 | 24.5816 |
| Enclosed Parking with Elevator | 28128           | 6.2728    | 2.8000e-004 | 6.0000e-005 | 6.2988  |
| Other Non-Asphalt Surfaces     | 0               | 0.0000    | 0.0000      | 0.0000      | 0.0000  |
| Regional Shopping Center       | 22008           | 4.9080    | 2.2000e-004 | 5.0000e-005 | 4.9283  |
| Total                          |                 | 35.6608   | 1.6000e-003 | 3.6000e-004 | 35.8088 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

|             | ROG     | NOx         | CO     | SO2         | Fugitive 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   | 0.2120  | 2.9500e-003 | 0.2112 | 7.0000e-005 |               | 4.1200e-003  | 4.1200e-003 |                | 4.1200e-003   | 4.1200e-003 | 0.4055   | 0.7996    | 1.2052    | 2.2100e-003 | 1.0000e-005 | 1.2630 |
| Unmitigated | 0.2121  | 2.9600e-003 | 0.2126 | 7.0000e-005 |               | 4.1300e-003  | 4.1300e-003 |                | 4.1300e-003   | 4.1300e-003 | 0.4055   | 0.8025    | 1.2080    | 2.2100e-003 | 1.0000e-005 | 1.2660 |



## 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 | 0.0309        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Consumer Products     | 0.1732        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Hearth                | 2.0900e-003   | 7.2000e-004        | 0.0187        | 6.0000e-005        |               | 3.0600e-003        | 3.0600e-003        |                | 3.0600e-003        | 3.0600e-003        | 0.4055        | 0.4869        | 0.8924        | 1.9100e-003        | 1.0000e-005        | 0.9427        |
| Landscaping           | 5.9100e-003   | 2.2400e-003        | 0.1938        | 1.0000e-005        |               | 1.0700e-003        | 1.0700e-003        |                | 1.0700e-003        | 1.0700e-003        | 0.0000        | 0.3156        | 0.3156        | 3.1000e-004        | 0.0000             | 0.3233        |
| <b>Total</b>          | <b>0.2121</b> | <b>2.9600e-003</b> | <b>0.2126</b> | <b>7.0000e-005</b> |               | <b>4.1300e-003</b> | <b>4.1300e-003</b> |                | <b>4.1300e-003</b> | <b>4.1300e-003</b> | <b>0.4055</b> | <b>0.8025</b> | <b>1.2080</b> | <b>2.2200e-003</b> | <b>1.0000e-005</b> | <b>1.2660</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 | 0.0309        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Consumer Products     | 0.1732        |                    |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000             | 0.0000        |
| Hearth                | 2.0900e-003   | 7.2000e-004        | 0.0187        | 6.0000e-005        |               | 3.0600e-003        | 3.0600e-003        |                | 3.0600e-003        | 3.0600e-003        | 0.4055        | 0.4869        | 0.8924        | 1.9100e-003        | 1.0000e-005        | 0.9427        |
| Landscaping           | 5.8300e-003   | 2.2300e-003        | 0.1924        | 1.0000e-005        |               | 1.0600e-003        | 1.0600e-003        |                | 1.0600e-003        | 1.0600e-003        | 0.0000        | 0.3128        | 0.3128        | 3.0000e-004        | 0.0000             | 0.3204        |
| <b>Total</b>          | <b>0.2120</b> | <b>2.9500e-003</b> | <b>0.2112</b> | <b>7.0000e-005</b> |               | <b>4.1200e-003</b> | <b>4.1200e-003</b> |                | <b>4.1200e-003</b> | <b>4.1200e-003</b> | <b>0.4055</b> | <b>0.7996</b> | <b>1.2052</b> | <b>2.2100e-003</b> | <b>1.0000e-005</b> | <b>1.2630</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

|             | Total CO2 | CH4    | N2O         | CO2e   |
|-------------|-----------|--------|-------------|--------|
| Category    | MT/yr     |        |             |        |
| Mitigated   | 3.7266    | 0.0604 | 1.4500e-003 | 5.6704 |
| Unmitigated | 3.7266    | 0.0604 | 1.4500e-003 | 5.6704 |

### 7.2 Water by Land Use

#### Unmitigated

|                                | Indoor/Outdoor Use   | Total CO2     | CH4           | N2O                | CO2e          |
|--------------------------------|----------------------|---------------|---------------|--------------------|---------------|
| Land Use                       | Mgal                 | MT/yr         |               |                    |               |
| Apartments Mid Rise            | 1.694 / 1.06796      | 3.4152        | 0.0553        | 1.3300e-003        | 5.1955        |
| Enclosed Parking with Elevator | 0 / 0                | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| Other Non-Asphalt Surfaces     | 0 / 0                | 0.0000        | 0.0000        | 0.0000             | 0.0000        |
| Regional Shopping Center       | 0.155552 / 0.0953385 | 0.3115        | 5.0800e-003   | 1.2000e-004        | 0.4749        |
| <b>Total</b>                   |                      | <b>3.7266</b> | <b>0.0604</b> | <b>1.4500e-003</b> | <b>5.6704</b> |

Mitigated

|                                | Indoor/Outdoor Use   | Total CO2 | CH4         | N2O         | CO2e   |
|--------------------------------|----------------------|-----------|-------------|-------------|--------|
| Land Use                       | Mgal                 | MT/yr     |             |             |        |
| Apartments Mid Rise            | 1.694 / 1.06796      | 3.4152    | 0.0553      | 1.3300e-003 | 5.1955 |
| Enclosed Parking with Elevator | 0 / 0                | 0.0000    | 0.0000      | 0.0000      | 0.0000 |
| Other Non-Asphalt Surfaces     | 0 / 0                | 0.0000    | 0.0000      | 0.0000      | 0.0000 |
| Regional Shopping Center       | 0.155552 / 0.0953385 | 0.3115    | 5.0800e-003 | 1.2000e-004 | 0.4749 |
| Total                          |                      | 3.7266    | 0.0604      | 1.4500e-003 | 5.6704 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e   |
|-------------|-----------|--------|--------|--------|
|             | MT/yr     |        |        |        |
| Mitigated   | 2.8764    | 0.1700 | 0.0000 | 7.1261 |
| Unmitigated | 2.8764    | 0.1700 | 0.0000 | 7.1261 |

## 8.2 Waste by Land Use

### Unmitigated

|                                   | Waste<br>Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------------------|-------------------|---------------|---------------|---------------|---------------|
| Land Use                          | tons              | MT/yr         |               |               |               |
| Apartments Mid<br>Rise            | 11.96             | 2.4278        | 0.1435        | 0.0000        | 6.0147        |
| Enclosed Parking<br>with Elevator | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Other Non-Asphalt<br>Surfaces     | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Regional<br>Shopping Center       | 2.21              | 0.4486        | 0.0265        | 0.0000        | 1.1114        |
| <b>Total</b>                      |                   | <b>2.8764</b> | <b>0.1700</b> | <b>0.0000</b> | <b>7.1261</b> |

### Mitigated

|                                   | Waste<br>Disposed | Total CO2     | CH4           | N2O           | CO2e          |
|-----------------------------------|-------------------|---------------|---------------|---------------|---------------|
| Land Use                          | tons              | MT/yr         |               |               |               |
| Apartments Mid<br>Rise            | 11.96             | 2.4278        | 0.1435        | 0.0000        | 6.0147        |
| Enclosed Parking<br>with Elevator | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Other Non-Asphalt<br>Surfaces     | 0                 | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Regional<br>Shopping Center       | 2.21              | 0.4486        | 0.0265        | 0.0000        | 1.1114        |
| <b>Total</b>                      |                   | <b>2.8764</b> | <b>0.1700</b> | <b>0.0000</b> | <b>7.1261</b> |

9.0 Operational Offroad

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

10.0 Stationary Equipment

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Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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619-625 CA Drive Development - Project Operations + Unmitigated Construction - San Mateo County, Summer

## 619-625 CA Drive Development - Project Operations + Unmitigated Construction

### San Mateo County, Summer

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 70    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2020  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW/hr) | 491.65                         | CH4 Intensity<br>(lb/MW/hr) | 0.022 | N2O Intensity<br>(lb/MW/hr) | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Unmitigated Construction  
Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan  
26-unit live-work building with space for commercial occupancy  
12 at-grade parking and 22 spaces in vehicle lifts  
Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

| Table Name                | Column Name                  | Default Value | New Value        |
|---------------------------|------------------------------|---------------|------------------|
| tblConstDustMitigation    | WaterUnpavedRoadVehicleSpeed | 0             | 15               |
| tblConstructionPhase      | NumDays                      | 10.00         | 8.00             |
| tblConstructionPhase      | NumDays                      | 1.00          | 21.00            |
| tblConstructionPhase      | NumDays                      | 2.00          | 7.00             |
| tblConstructionPhase      | NumDays                      | 100.00        | 320.00           |
| tblConstructionPhase      | NumDays                      | 5.00          | 3.00             |
| tblConstructionPhase      | NumDays                      | 5.00          | 14.00            |
| tblFireplaces             | FireplaceWoodMass            | 228.80        | 0.00             |
| tblFireplaces             | NumberWood                   | 4.42          | 0.00             |
| tblGrading                | AcresOfGrading               | 0.00          | 4.50             |
| tblGrading                | MaterialExported             | 0.00          | 1,255.00         |
| tblLandUse                | LandUseSquareFeet            | 5,227.20      | 0.00             |
| tblLandUse                | LandUseSquareFeet            | 26,000.00     | 42,174.00        |
| tblLandUse                | LotAcreage                   | 0.68          | 0.17             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 2.00          | 1.00             |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Grading          |
| tblOffRoadEquipment       | UsageHours                   | 6.00          | 0.60             |
| tblProjectCharacteristics | CH4IntensityFactor           | 0.029         | 0.022            |
| tblProjectCharacteristics | CO2IntensityFactor           | 641.35        | 491.65           |
| tblProjectCharacteristics | N2OIntensityFactor           | 0.006         | 0.005            |

|                 |       |       |       |
|-----------------|-------|-------|-------|
| tblVehicleTrips | ST_TR | 6.39  | 4.62  |
| tblVehicleTrips | ST_TR | 49.97 | 31.90 |
| tblVehicleTrips | SU_TR | 5.86  | 4.62  |
| tblVehicleTrips | SU_TR | 25.24 | 31.90 |
| tblVehicleTrips | WD_TR | 6.65  | 4.62  |
| tblVehicleTrips | WD_TR | 42.70 | 31.90 |



## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9476  | 11.2730 | 10.8390 | 0.0245 | 1.5167        | 0.4998       | 1.9542     | 0.5092         | 0.4600        | 0.9117      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |
| 2020    | 44.3716 | 7.4944  | 7.4853  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4105      | 0.0000   | 1,173.4740 | 1,173.4740 | 0.3043 | 0.0000 | 1,181.0804 |
| Maximum | 44.3716 | 11.2730 | 10.8390 | 0.0245 | 1.5167        | 0.4998       | 1.9542     | 0.5092         | 0.4600        | 0.9117      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9476  | 11.2730 | 10.8390 | 0.0245 | 0.7277        | 0.4998       | 1.1652     | 0.2411         | 0.4600        | 0.6436      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |
| 2020    | 44.3716 | 7.4944  | 7.4853  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4105      | 0.0000   | 1,173.4740 | 1,173.4740 | 0.3043 | 0.0000 | 1,181.0804 |
| Maximum | 44.3716 | 11.2730 | 10.8390 | 0.0245 | 0.7277        | 0.4998       | 1.1652     | 0.2411         | 0.4600        | 0.6436      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 45.97         | 0.00         | 31.04      | 47.64          | 0.00          | 20.27       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day         |                   |                   |               |                    |                   |
| Area         | 1.4824        | 0.1433        | 4.8153        | 9.1700e-003   |               | 0.4469        | 0.4469        |                | 0.4469        | 0.4469        | 63.3150        | 100.2184          | 163.5334          | 0.3016        | 1.7700e-003        | 171.5999          |
| Energy       | 6.9900e-003   | 0.0599        | 0.0266        | 3.8000e-004   |               | 4.8300e-003   | 4.8300e-003   |                | 4.8300e-003   | 4.8300e-003   |                | 76.2776           | 76.2776           | 1.4600e-003   | 1.4000e-003        | 76.7309           |
| Mobile       | 0.2879        | 0.7709        | 2.8644        | 9.5000e-003   | 0.8387        | 9.9600e-003   | 0.8486        | 0.2246         | 9.3500e-003   | 0.2339        |                | 957.3887          | 957.3887          | 0.0345        |                    | 958.2520          |
| <b>Total</b> | <b>1.7773</b> | <b>0.9741</b> | <b>7.7062</b> | <b>0.0191</b> | <b>0.8387</b> | <b>0.4617</b> | <b>1.3004</b> | <b>0.2246</b>  | <b>0.4611</b> | <b>0.6856</b> | <b>63.3150</b> | <b>1,133.8847</b> | <b>1,197.1997</b> | <b>0.3376</b> | <b>3.1700e-003</b> | <b>1,206.5828</b> |

### Mitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day         |                   |                   |               |                    |                   |
| Area         | 1.4815        | 0.1431        | 4.7997        | 9.1700e-003   |               | 0.4468        | 0.4468        |                | 0.4468        | 0.4468        | 63.3150        | 100.1836          | 163.4986          | 0.3016        | 1.7700e-003        | 171.5637          |
| Energy       | 6.9900e-003   | 0.0599        | 0.0266        | 3.8000e-004   |               | 4.8300e-003   | 4.8300e-003   |                | 4.8300e-003   | 4.8300e-003   |                | 76.2776           | 76.2776           | 1.4600e-003   | 1.4000e-003        | 76.7309           |
| Mobile       | 0.2879        | 0.7709        | 2.8644        | 9.5000e-003   | 0.8387        | 9.9600e-003   | 0.8486        | 0.2246         | 9.3500e-003   | 0.2339        |                | 957.3887          | 957.3887          | 0.0345        |                    | 958.2520          |
| <b>Total</b> | <b>1.7764</b> | <b>0.9739</b> | <b>7.6907</b> | <b>0.0191</b> | <b>0.8387</b> | <b>0.4616</b> | <b>1.3003</b> | <b>0.2246</b>  | <b>0.4610</b> | <b>0.6856</b> | <b>63.3150</b> | <b>1,133.8499</b> | <b>1,197.1648</b> | <b>0.3375</b> | <b>3.1700e-003</b> | <b>1,206.5466</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>0.05</b> | <b>0.02</b> | <b>0.20</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.02</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.02</b>   | <b>0.01</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.00</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 4.5**

**Acres of Paving: 0.23**

**Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking**

#### OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |

|                       |                 |   |      |    |      |
|-----------------------|-----------------|---|------|----|------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
|-----------------------|-----------------|---|------|----|------|

### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.0395        | 0.0000        | 1.0395        | 0.1574         | 0.0000        | 0.1574        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.8707        | 8.8698        | 9.9804        | 0.0150        |               | 0.4927        | 0.4927        |                | 0.4533        | 0.4533        |          | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.8707</b> | <b>8.8698</b> | <b>9.9804</b> | <b>0.0150</b> | <b>1.0395</b> | <b>0.4927</b> | <b>1.5322</b> | <b>0.1574</b>  | <b>0.4533</b> | <b>0.6107</b> |          | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0471        | 1.6185        | 0.6312        | 3.9500e-003        | 0.0825        | 6.5400e-003        | 0.0890        | 0.0226         | 6.2600e-003        | 0.0288        |          | 445.5353        | 445.5353        | 0.0539        |     | 446.8833        |
| 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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318         | 79.2318         | 1.6800e-003   |     | 79.2737         |
| <b>Total</b> | <b>0.0770</b> | <b>1.6368</b> | <b>0.8586</b> | <b>4.7400e-003</b> | <b>0.1646</b> | <b>7.0400e-003</b> | <b>0.1717</b> | <b>0.0444</b>  | <b>6.7300e-003</b> | <b>0.0511</b> |          | <b>524.7671</b> | <b>524.7671</b> | <b>0.0556</b> |     | <b>526.1570</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 |               |               |               |               | 0.4678        | 0.0000        | 0.4678        | 0.0708         | 0.0000        | 0.0708        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.8707        | 8.8698        | 9.9804        | 0.0150        |               | 0.4927        | 0.4927        |                | 0.4533        | 0.4533        | 0.0000        | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.8707</b> | <b>8.8698</b> | <b>9.9804</b> | <b>0.0150</b> | <b>0.4678</b> | <b>0.4927</b> | <b>0.9605</b> | <b>0.0708</b>  | <b>0.4533</b> | <b>0.5241</b> | <b>0.0000</b> | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0471        | 1.6185        | 0.6312        | 3.9500e-003        | 0.0825        | 6.5400e-003        | 0.0890        | 0.0226         | 6.2600e-003        | 0.0288        |          | 445.5353        | 445.5353        | 0.0539        |     | 446.8833        |
| 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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318         | 79.2318         | 1.6800e-003   |     | 79.2737         |
| <b>Total</b> | <b>0.0770</b> | <b>1.6368</b> | <b>0.8586</b> | <b>4.7400e-003</b> | <b>0.1646</b> | <b>7.0400e-003</b> | <b>0.1717</b> | <b>0.0444</b>  | <b>6.7300e-003</b> | <b>0.0511</b> |          | <b>524.7671</b> | <b>524.7671</b> | <b>0.0556</b> |     | <b>526.1570</b> |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.2340        | 0.0000        | 0.2340        | 0.0256         | 0.0000        | 0.0256        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        |          | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.2340</b> | <b>0.3901</b> | <b>0.6241</b> | <b>0.0256</b>  | <b>0.3589</b> | <b>0.3844</b> |          | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0742        | 2.5473        | 0.9935        | 6.2200e-003        | 0.1298        | 0.0103        | 0.1401        | 0.0355         | 9.8500e-003   | 0.0454        |          | 701.2435        | 701.2435        | 0.0849        |     | 703.3651        |
| 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       | 0.0239        | 0.0147        | 0.1819        | 6.4000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 63.3855         | 63.3855         | 1.3400e-003   |     | 63.4190         |
| <b>Total</b> | <b>0.0980</b> | <b>2.5620</b> | <b>1.1754</b> | <b>6.8600e-003</b> | <b>0.1955</b> | <b>0.0107</b> | <b>0.2062</b> | <b>0.0530</b>  | <b>0.0102</b> | <b>0.0632</b> |          | <b>764.6289</b> | <b>764.6289</b> | <b>0.0862</b> |     | <b>766.7841</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 |               |               |               |               | 0.1053        | 0.0000        | 0.1053        | 0.0115         | 0.0000        | 0.0115        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        | 0.0000        | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.1053</b> | <b>0.3901</b> | <b>0.4954</b> | <b>0.0115</b>  | <b>0.3589</b> | <b>0.3704</b> | <b>0.0000</b> | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0742        | 2.5473        | 0.9935        | 6.2200e-003        | 0.1298        | 0.0103        | 0.1401        | 0.0355         | 9.8500e-003   | 0.0454        |          | 701.2435        | 701.2435        | 0.0849        |     | 703.3651        |
| 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       | 0.0239        | 0.0147        | 0.1819        | 6.4000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 63.3855         | 63.3855         | 1.3400e-003   |     | 63.4190         |
| <b>Total</b> | <b>0.0980</b> | <b>2.5620</b> | <b>1.1754</b> | <b>6.8600e-003</b> | <b>0.1955</b> | <b>0.0107</b> | <b>0.2062</b> | <b>0.0530</b>  | <b>0.0102</b> | <b>0.0632</b> |          | <b>764.6289</b> | <b>764.6289</b> | <b>0.0862</b> |     | <b>766.7841</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.4345        | 0.0000        | 1.4345        | 0.4874         | 0.0000        | 0.4874        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        |          | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>1.4345</b> | <b>0.4370</b> | <b>1.8715</b> | <b>0.4874</b>  | <b>0.4020</b> | <b>0.8894</b> |          | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318        | 79.2318        | 1.6800e-003        |     | 79.2737        |
| <b>Total</b> | <b>0.0298</b> | <b>0.0184</b> | <b>0.2274</b> | <b>7.9000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>79.2318</b> | <b>79.2318</b> | <b>1.6800e-003</b> |     | <b>79.2737</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 |               |               |               |               | 0.6455        | 0.0000        | 0.6455        | 0.2193         | 0.0000        | 0.2193        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        | 0.0000        | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>0.6455</b> | <b>0.4370</b> | <b>1.0825</b> | <b>0.2193</b>  | <b>0.4020</b> | <b>0.6214</b> | <b>0.0000</b> | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318        | 79.2318        | 1.6800e-003        |     | 79.2737        |
| <b>Total</b> | <b>0.0298</b> | <b>0.0184</b> | <b>0.2274</b> | <b>7.9000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>79.2318</b> | <b>79.2318</b> | <b>1.6800e-003</b> |     | <b>79.2737</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        |          | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> |          | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0186        | 0.5025        | 0.1877        | 1.0800e-003        | 0.0270        | 3.4900e-003        | 0.0305        | 7.7700e-003    | 3.3400e-003        | 0.0111        |          | 118.8057        | 118.8057        | 0.0103        |     | 119.0629        |
| Worker       | 0.0627        | 0.0385        | 0.4775        | 1.6700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 166.3868        | 166.3868        | 3.5200e-003   |     | 166.4748        |
| <b>Total</b> | <b>0.0813</b> | <b>0.5410</b> | <b>0.6652</b> | <b>2.7500e-003</b> | <b>0.1995</b> | <b>4.5500e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.3200e-003</b> | <b>0.0578</b> |          | <b>285.1925</b> | <b>285.1925</b> | <b>0.0138</b> |     | <b>285.5377</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     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        | 0.0000        | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> | <b>0.0000</b> | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0186        | 0.5025        | 0.1877        | 1.0800e-003        | 0.0270        | 3.4900e-003        | 0.0305        | 7.7700e-003    | 3.3400e-003        | 0.0111        |          | 118.8057        | 118.8057        | 0.0103        |     | 119.0629        |
| Worker       | 0.0627        | 0.0385        | 0.4775        | 1.6700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 166.3868        | 166.3868        | 3.5200e-003   |     | 166.4748        |
| <b>Total</b> | <b>0.0813</b> | <b>0.5410</b> | <b>0.6652</b> | <b>2.7500e-003</b> | <b>0.1995</b> | <b>4.5500e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.3200e-003</b> | <b>0.0578</b> |          | <b>285.1925</b> | <b>285.1925</b> | <b>0.0138</b> |     | <b>285.5377</b> |

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        |          | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> |          | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0152        | 0.4568        | 0.1771        | 1.0700e-003        | 0.0270        | 2.2900e-003        | 0.0293        | 7.7700e-003    | 2.1900e-003        | 9.9600e-003   |          | 117.7053        | 117.7053        | 0.0101        |     | 117.9565        |
| Worker       | 0.0577        | 0.0342        | 0.4346        | 1.6100e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 161.0950        | 161.0950        | 3.1100e-003   |     | 161.1728        |
| <b>Total</b> | <b>0.0729</b> | <b>0.4911</b> | <b>0.6117</b> | <b>2.6800e-003</b> | <b>0.1995</b> | <b>3.3300e-003</b> | <b>0.2028</b> | <b>0.0535</b>  | <b>3.1500e-003</b> | <b>0.0567</b> |          | <b>278.8003</b> | <b>278.8003</b> | <b>0.0132</b> |     | <b>279.1293</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     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        | 0.0000        | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> | <b>0.0000</b> | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0152        | 0.4568        | 0.1771        | 1.0700e-003        | 0.0270        | 2.2900e-003        | 0.0293        | 7.7700e-003    | 2.1900e-003        | 9.9600e-003   |          | 117.7053        | 117.7053        | 0.0101        |     | 117.9565        |
| Worker       | 0.0577        | 0.0342        | 0.4346        | 1.6100e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 161.0950        | 161.0950        | 3.1100e-003   |     | 161.1728        |
| <b>Total</b> | <b>0.0729</b> | <b>0.4911</b> | <b>0.6117</b> | <b>2.6800e-003</b> | <b>0.1995</b> | <b>3.3300e-003</b> | <b>0.2028</b> | <b>0.0535</b>  | <b>3.1500e-003</b> | <b>0.0567</b> |          | <b>278.8003</b> | <b>278.8003</b> | <b>0.0132</b> |     | <b>279.1293</b> |

**3.6 Paving - 2020****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        |          | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> |          | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0495        | 0.0293        | 0.3725        | 1.3800e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 138.0814        | 138.0814        | 2.6700e-003        |     | 138.1481        |
| <b>Total</b> | <b>0.0495</b> | <b>0.0293</b> | <b>0.3725</b> | <b>1.3800e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>138.0814</b> | <b>138.0814</b> | <b>2.6700e-003</b> |     | <b>138.1481</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     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        | 0.0000        | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> | <b>0.0000</b> | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0495        | 0.0293        | 0.3725        | 1.3800e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 138.0814        | 138.0814        | 2.6700e-003        |     | 138.1481        |
| <b>Total</b> | <b>0.0495</b> | <b>0.0293</b> | <b>0.3725</b> | <b>1.3800e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>138.0814</b> | <b>138.0814</b> | <b>2.6700e-003</b> |     | <b>138.1481</b> |

## 3.7 Architectural Coating - 2020

### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        |          | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</b> |

### Unmitigated Construction Off-Site

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0110        | 6.5200e-003        | 0.0828        | 3.1000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 30.6848        | 30.6848        | 5.9000e-004        |     | 30.6996        |
| <b>Total</b> | <b>0.0110</b> | <b>6.5200e-003</b> | <b>0.0828</b> | <b>3.1000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>30.6848</b> | <b>30.6848</b> | <b>5.9000e-004</b> |     | <b>30.6996</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 | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        | 0.0000        | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</b> |

### Mitigated Construction Off-Site

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0110        | 6.5200e-003        | 0.0828        | 3.1000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 30.6848        | 30.6848        | 5.9000e-004        |     | 30.6996        |
| <b>Total</b> | <b>0.0110</b> | <b>6.5200e-003</b> | <b>0.0828</b> | <b>3.1000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>30.6848</b> | <b>30.6848</b> | <b>5.9000e-004</b> |     | <b>30.6996</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   | 0.2879 | 0.7709 | 2.8644 | 9.5000e-003 | 0.8387        | 9.9600e-003  | 0.8486     | 0.2246         | 9.3500e-003   | 0.2339      |          | 957.3887  | 957.3887  | 0.0345 |     | 958.2520 |
| Unmitigated | 0.2879 | 0.7709 | 2.8644 | 9.5000e-003 | 0.8387        | 9.9600e-003  | 0.8486     | 0.2246         | 9.3500e-003   | 0.2339      |          | 957.3887  | 957.3887  | 0.0345 |     | 958.2520 |

### 4.2 Trip Summary Information

| Land Use                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|--------------------------------|-------------------------|----------|--------|-------------|------------|
|                                | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Apartments Mid Rise            | 120.12                  | 120.12   | 120.12 | 277,430     | 277,430    |
| Enclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Other Non-Asphalt Surfaces     | 0.00                    | 0.00     | 0.00   |             |            |
| Regional Shopping Center       | 66.99                   | 66.99    | 66.99  | 117,454     | 117,454    |
| Total                          | 187.11                  | 187.11   | 187.11 | 394,884     | 394,884    |

### 4.3 Trip Type Information

| Land Use                       | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                                | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise            | 10.80      | 4.80       | 5.70        | 31.00      | 15.00      | 54.00       | 86             | 11       | 3       |
| Enclosed Parking with Elevator | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces     | 9.50       | 7.30       | 7.30        | 0.00       | 0.00       | 0.00        | 0              | 0        | 0       |
| Regional Shopping Center       | 9.50       | 7.30       | 7.30        | 16.30      | 64.70      | 19.00       | 54             | 35       | 11      |

### 4.4 Fleet Mix

| Land Use                       | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise            | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Enclosed Parking with Elevator | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Other Non-Asphalt Surfaces     | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Regional Shopping Center       | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 6.9900e-003 | 0.0599 | 0.0266 | 3.8000e-004 |               | 4.8300e-003  | 4.8300e-003 |                | 4.8300e-003   | 4.8300e-003 |          | 76.2776   | 76.2776   | 1.4600e-003 | 1.4000e-003 | 76.7309 |
| NaturalGas Unmitigated | 6.9900e-003 | 0.0599 | 0.0266 | 3.8000e-004 |               | 4.8300e-003  | 4.8300e-003 |                | 4.8300e-003   | 4.8300e-003 |          | 76.2776   | 76.2776   | 1.4600e-003 | 1.4000e-003 | 76.7309 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Apartments Mid Rise            | 621.894        | 6.7100e-003        | 0.0573        | 0.0244        | 3.7000e-004        |               | 4.6300e-003        | 4.6300e-003        |                | 4.6300e-003        | 4.6300e-003        |          | 73.1640        | 73.1640        | 1.4000e-003        | 1.3400e-003        | 73.5987        |
| Enclosed Parking with Elevator | 0              | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0              | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 26.4658        | 2.9000e-004        | 2.5900e-003   | 2.1800e-003   | 2.0000e-005        |               | 2.0000e-004        | 2.0000e-004        |                | 2.0000e-004        | 2.0000e-004        |          | 3.1136         | 3.1136         | 6.0000e-005        | 6.0000e-005        | 3.1321         |
| <b>Total</b>                   |                | <b>7.0000e-003</b> | <b>0.0599</b> | <b>0.0266</b> | <b>3.9000e-004</b> |               | <b>4.8300e-003</b> | <b>4.8300e-003</b> |                | <b>4.8300e-003</b> | <b>4.8300e-003</b> |          | <b>76.2776</b> | <b>76.2776</b> | <b>1.4600e-003</b> | <b>1.4000e-003</b> | <b>76.7309</b> |

## Mitigated

|                                | Natural Gas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|-----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr         | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Apartments Mid Rise            | 0.621894        | 6.7100e-003        | 0.0573        | 0.0244        | 3.7000e-004        |               | 4.6300e-003        | 4.6300e-003        |                | 4.6300e-003        | 4.6300e-003        |          | 73.1640        | 73.1640        | 1.4000e-003        | 1.3400e-003        | 73.5987        |
| Enclosed Parking with Elevator | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 0.0264658       | 2.9000e-004        | 2.5900e-003   | 2.1800e-003   | 2.0000e-005        |               | 2.0000e-004        | 2.0000e-004        |                | 2.0000e-004        | 2.0000e-004        |          | 3.1136         | 3.1136         | 6.0000e-005        | 6.0000e-005        | 3.1321         |
| <b>Total</b>                   |                 | <b>7.0000e-003</b> | <b>0.0599</b> | <b>0.0266</b> | <b>3.9000e-004</b> |               | <b>4.8300e-003</b> | <b>4.8300e-003</b> |                | <b>4.8300e-003</b> | <b>4.8300e-003</b> |          | <b>76.2776</b> | <b>76.2776</b> | <b>1.4600e-003</b> | <b>1.4000e-003</b> | <b>76.7309</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |             |          |
| Mitigated   | 1.4815 | 0.1431 | 4.7997 | 9.1700e-003 |               | 0.4468       | 0.4468     |                | 0.4468        | 0.4468      | 63.3150  | 100.1836  | 163.4986  | 0.3016 | 1.7700e-003 | 171.5637 |
| Unmitigated | 1.4824 | 0.1433 | 4.8153 | 9.1700e-003 |               | 0.4469       | 0.4469     |                | 0.4469        | 0.4469      | 63.3150  | 100.2184  | 163.5334  | 0.3016 | 1.7700e-003 | 171.5999 |



## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-----------------|-----------------|---------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                 |                 |               |                    |                 |
| Architectural Coating | 0.1692        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                 | 0.0000          |               |                    | 0.0000          |
| Consumer Products     | 0.9492        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                 | 0.0000          |               |                    | 0.0000          |
| Hearth                | 0.2984        | 0.1184        | 2.6617        | 9.0600e-003        |               | 0.4351        | 0.4351        |                | 0.4351        | 0.4351        | 63.3150        | 96.3529         | 159.6679        | 0.2978        | 1.7700e-003        | 167.6401        |
| Landscaping           | 0.0657        | 0.0249        | 2.1536        | 1.1000e-004        |               | 0.0118        | 0.0118        |                | 0.0118        | 0.0118        |                | 3.8655          | 3.8655          | 3.7700e-003   |                    | 3.9598          |
| <b>Total</b>          | <b>1.4824</b> | <b>0.1433</b> | <b>4.8153</b> | <b>9.1700e-003</b> |               | <b>0.4469</b> | <b>0.4469</b> |                | <b>0.4469</b> | <b>0.4469</b> | <b>63.3150</b> | <b>100.2184</b> | <b>163.5334</b> | <b>0.3016</b> | <b>1.7700e-003</b> | <b>171.5999</b> |

### Mitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2       | Total CO2       | CH4           | N2O                | CO2e            |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-----------------|-----------------|---------------|--------------------|-----------------|
| SubCategory           | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day         |                 |                 |               |                    |                 |
| Architectural Coating | 0.1692        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                 | 0.0000          |               |                    | 0.0000          |
| Consumer Products     | 0.9492        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |                |                 | 0.0000          |               |                    | 0.0000          |
| Hearth                | 0.2984        | 0.1184        | 2.6617        | 9.0600e-003        |               | 0.4351        | 0.4351        |                | 0.4351        | 0.4351        | 63.3150        | 96.3529         | 159.6679        | 0.2978        | 1.7700e-003        | 167.6401        |
| Landscaping           | 0.0647        | 0.0248        | 2.1381        | 1.1000e-004        |               | 0.0118        | 0.0118        |                | 0.0118        | 0.0118        |                | 3.8306          | 3.8306          | 3.7200e-003   |                    | 3.9237          |
| <b>Total</b>          | <b>1.4815</b> | <b>0.1431</b> | <b>4.7997</b> | <b>9.1700e-003</b> |               | <b>0.4468</b> | <b>0.4468</b> |                | <b>0.4468</b> | <b>0.4468</b> | <b>63.3150</b> | <b>100.1836</b> | <b>163.4986</b> | <b>0.3016</b> | <b>1.7700e-003</b> | <b>171.5638</b> |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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619–625 CA Drive Development - Project Operations + Unmitigated Construction - San Mateo County, Winter

## 619–625 CA Drive Development - Project Operations + Unmitigated Construction

### San Mateo County, Winter

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

### 1.2 Other Project Characteristics

|                             |                                |                             |       |                             |       |
|-----------------------------|--------------------------------|-----------------------------|-------|-----------------------------|-------|
| Urbanization                | Urban                          | Wind Speed (m/s)            | 2.2   | Precipitation Freq (Days)   | 70    |
| Climate Zone                | 5                              |                             |       | Operational Year            | 2020  |
| Utility Company             | Pacific Gas & Electric Company |                             |       |                             |       |
| CO2 Intensity<br>(lb/MW hr) | 491.65                         | CH4 Intensity<br>(lb/MW hr) | 0.022 | N2O Intensity<br>(lb/MW hr) | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Unmitigated Construction

Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan

26-unit live-work building with space for commercial occupancy

12 at-grade parking and 22 spaces in vehicle lifts

Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

| Table Name                | Column Name                  | Default Value | New Value        |
|---------------------------|------------------------------|---------------|------------------|
| tblConstDustMitigation    | WaterUnpavedRoadVehicleSpeed | 0             | 15               |
| tblConstructionPhase      | NumDays                      | 10.00         | 8.00             |
| tblConstructionPhase      | NumDays                      | 1.00          | 21.00            |
| tblConstructionPhase      | NumDays                      | 2.00          | 7.00             |
| tblConstructionPhase      | NumDays                      | 100.00        | 320.00           |
| tblConstructionPhase      | NumDays                      | 5.00          | 3.00             |
| tblConstructionPhase      | NumDays                      | 5.00          | 14.00            |
| tblFireplaces             | FireplaceWoodMass            | 228.80        | 0.00             |
| tblFireplaces             | NumberWood                   | 4.42          | 0.00             |
| tblGrading                | AcresOfGrading               | 0.00          | 4.50             |
| tblGrading                | MaterialExported             | 0.00          | 1,255.00         |
| tblLandUse                | LandUseSquareFeet            | 5,227.20      | 0.00             |
| tblLandUse                | LandUseSquareFeet            | 26,000.00     | 42,174.00        |
| tblLandUse                | LotAcreage                   | 0.68          | 0.17             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 0.00          | 1.00             |
| tblOffRoadEquipment       | OffRoadEquipmentUnitAmount   | 2.00          | 1.00             |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Site Preparation |
| tblOffRoadEquipment       | PhaseName                    |               | Grading          |
| tblOffRoadEquipment       | UsageHours                   | 6.00          | 0.60             |
| tblProjectCharacteristics | CH4IntensityFactor           | 0.029         | 0.022            |
| tblProjectCharacteristics | CO2IntensityFactor           | 641.35        | 491.65           |
| tblProjectCharacteristics | N2OIntensityFactor           | 0.006         | 0.005            |

|                 |       |       |       |
|-----------------|-------|-------|-------|
| tblVehicleTrips | ST_TR | 6.39  | 4.62  |
| tblVehicleTrips | ST_TR | 49.97 | 31.90 |
| tblVehicleTrips | SU_TR | 5.86  | 4.62  |
| tblVehicleTrips | SU_TR | 25.24 | 31.90 |
| tblVehicleTrips | WD_TR | 6.65  | 4.62  |
| tblVehicleTrips | WD_TR | 42.70 | 31.90 |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9521  | 11.3570 | 10.8514 | 0.0244 | 1.5167        | 0.4999       | 1.9542     | 0.5092         | 0.4602        | 0.9117      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |
| 2020    | 44.3728 | 7.5097  | 7.4735  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4106      | 0.0000   | 1,164.9677 | 1,164.9677 | 0.3041 | 0.0000 | 1,172.5710 |
| Maximum | 44.3728 | 11.3570 | 10.8514 | 0.0244 | 1.5167        | 0.4999       | 1.9542     | 0.5092         | 0.4602        | 0.9117      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |

#### Mitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9521  | 11.3570 | 10.8514 | 0.0244 | 0.7277        | 0.4999       | 1.1652     | 0.2411         | 0.4602        | 0.6436      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |
| 2020    | 44.3728 | 7.5097  | 7.4735  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4106      | 0.0000   | 1,164.9677 | 1,164.9677 | 0.3041 | 0.0000 | 1,172.5710 |
| Maximum | 44.3728 | 11.3570 | 10.8514 | 0.0244 | 0.7277        | 0.4999       | 1.1652     | 0.2411         | 0.4602        | 0.6436      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |

|                   | ROG  | NOx  | CO   | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 45.97         | 0.00         | 31.04      | 47.64          | 0.00          | 20.27       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

## 2.2 Overall Operational

### Unmitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day         |                   |                   |               |                    |                   |
| Area         | 1.4824        | 0.1433        | 4.8153        | 9.1700e-003   |               | 0.4469        | 0.4469        |                | 0.4469        | 0.4469        | 63.3150        | 100.2184          | 163.5334          | 0.3016        | 1.7700e-003        | 171.5999          |
| Energy       | 6.9900e-003   | 0.0599        | 0.0266        | 3.8000e-004   |               | 4.8300e-003   | 4.8300e-003   |                | 4.8300e-003   | 4.8300e-003   |                | 76.2776           | 76.2776           | 1.4600e-003   | 1.4000e-003        | 76.7309           |
| Mobile       | 0.2637        | 0.8344        | 3.0003        | 9.0300e-003   | 0.8387        | 0.0100        | 0.8487        | 0.2246         | 9.3900e-003   | 0.2340        |                | 909.0653          | 909.0653          | 0.0353        |                    | 909.9468          |
| <b>Total</b> | <b>1.7532</b> | <b>1.0375</b> | <b>7.8421</b> | <b>0.0186</b> | <b>0.8387</b> | <b>0.4617</b> | <b>1.3004</b> | <b>0.2246</b>  | <b>0.4611</b> | <b>0.6857</b> | <b>63.3150</b> | <b>1,085.5613</b> | <b>1,148.8762</b> | <b>0.3383</b> | <b>3.1700e-003</b> | <b>1,158.2776</b> |

### Mitigated Operational

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2       | NBio- CO2         | Total CO2         | CH4           | N2O                | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day         |                   |                   |               |                    |                   |
| Area         | 1.4815        | 0.1431        | 4.7997        | 9.1700e-003   |               | 0.4468        | 0.4468        |                | 0.4468        | 0.4468        | 63.3150        | 100.1836          | 163.4986          | 0.3016        | 1.7700e-003        | 171.5637          |
| Energy       | 6.9900e-003   | 0.0599        | 0.0266        | 3.8000e-004   |               | 4.8300e-003   | 4.8300e-003   |                | 4.8300e-003   | 4.8300e-003   |                | 76.2776           | 76.2776           | 1.4600e-003   | 1.4000e-003        | 76.7309           |
| Mobile       | 0.2637        | 0.8344        | 3.0003        | 9.0300e-003   | 0.8387        | 0.0100        | 0.8487        | 0.2246         | 9.3900e-003   | 0.2340        |                | 909.0653          | 909.0653          | 0.0353        |                    | 909.9468          |
| <b>Total</b> | <b>1.7522</b> | <b>1.0374</b> | <b>7.8266</b> | <b>0.0186</b> | <b>0.8387</b> | <b>0.4616</b> | <b>1.3003</b> | <b>0.2246</b>  | <b>0.4610</b> | <b>0.6856</b> | <b>63.3150</b> | <b>1,085.5264</b> | <b>1,148.8414</b> | <b>0.3383</b> | <b>3.1700e-003</b> | <b>1,158.2414</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>0.05</b> | <b>0.02</b> | <b>0.20</b> | <b>0.00</b> | <b>0.00</b>   | <b>0.02</b>  | <b>0.01</b> | <b>0.00</b>    | <b>0.02</b>   | <b>0.01</b> | <b>0.00</b> | <b>0.00</b> | <b>0.00</b> | <b>0.02</b> | <b>0.00</b> | <b>0.00</b> |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 4.5**

**Acres of Paving: 0.23**

**Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking**

#### OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |



### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.0395        | 0.0000        | 1.0395        | 0.1574         | 0.0000        | 0.1574        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.8707        | 8.8698        | 9.9804        | 0.0150        |               | 0.4927        | 0.4927        |                | 0.4533        | 0.4533        |          | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.8707</b> | <b>8.8698</b> | <b>9.9804</b> | <b>0.0150</b> | <b>1.0395</b> | <b>0.4927</b> | <b>1.5322</b> | <b>0.1574</b>  | <b>0.4533</b> | <b>0.6107</b> |          | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0483        | 1.6696        | 0.6496        | 3.9100e-003        | 0.0825        | 6.7100e-003        | 0.0892        | 0.0226         | 6.4200e-003        | 0.0290        |          | 440.9086        | 440.9086        | 0.0544        |     | 442.2696        |
| 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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473         | 74.3473         | 1.6100e-003   |     | 74.3875         |
| <b>Total</b> | <b>0.0814</b> | <b>1.6923</b> | <b>0.8709</b> | <b>4.6600e-003</b> | <b>0.1646</b> | <b>7.2100e-003</b> | <b>0.1718</b> | <b>0.0444</b>  | <b>6.8900e-003</b> | <b>0.0512</b> |          | <b>515.2559</b> | <b>515.2559</b> | <b>0.0561</b> |     | <b>516.6570</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 |               |               |               |               | 0.4678        | 0.0000        | 0.4678        | 0.0708         | 0.0000        | 0.0708        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.8707        | 8.8698        | 9.9804        | 0.0150        |               | 0.4927        | 0.4927        |                | 0.4533        | 0.4533        | 0.0000        | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.8707</b> | <b>8.8698</b> | <b>9.9804</b> | <b>0.0150</b> | <b>0.4678</b> | <b>0.4927</b> | <b>0.9605</b> | <b>0.0708</b>  | <b>0.4533</b> | <b>0.5241</b> | <b>0.0000</b> | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0483        | 1.6696        | 0.6496        | 3.9100e-003        | 0.0825        | 6.7100e-003        | 0.0892        | 0.0226         | 6.4200e-003        | 0.0290        |          | 440.9086        | 440.9086        | 0.0544        |     | 442.2696        |
| 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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473         | 74.3473         | 1.6100e-003   |     | 74.3875         |
| <b>Total</b> | <b>0.0814</b> | <b>1.6923</b> | <b>0.8709</b> | <b>4.6600e-003</b> | <b>0.1646</b> | <b>7.2100e-003</b> | <b>0.1718</b> | <b>0.0444</b>  | <b>6.8900e-003</b> | <b>0.0512</b> |          | <b>515.2559</b> | <b>515.2559</b> | <b>0.0561</b> |     | <b>516.6570</b> |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.2340        | 0.0000        | 0.2340        | 0.0256         | 0.0000        | 0.0256        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        |          | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.2340</b> | <b>0.3901</b> | <b>0.6241</b> | <b>0.0256</b>  | <b>0.3589</b> | <b>0.3844</b> |          | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0759        | 2.6279        | 1.0225        | 6.1600e-003        | 0.1298        | 0.0106        | 0.1404        | 0.0355         | 0.0101        | 0.0456        |          | 693.9614        | 693.9614        | 0.0857        |     | 696.1035        |
| 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       | 0.0265        | 0.0181        | 0.1770        | 6.0000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 59.4778         | 59.4778         | 1.2900e-003   |     | 59.5100         |
| <b>Total</b> | <b>0.1024</b> | <b>2.6460</b> | <b>1.1995</b> | <b>6.7600e-003</b> | <b>0.1955</b> | <b>0.0110</b> | <b>0.2065</b> | <b>0.0530</b>  | <b>0.0105</b> | <b>0.0634</b> |          | <b>753.4393</b> | <b>753.4393</b> | <b>0.0870</b> |     | <b>755.6134</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 |               |               |               |               | 0.1053        | 0.0000        | 0.1053        | 0.0115         | 0.0000        | 0.0115        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        | 0.0000        | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.1053</b> | <b>0.3901</b> | <b>0.4954</b> | <b>0.0115</b>  | <b>0.3589</b> | <b>0.3704</b> | <b>0.0000</b> | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0759        | 2.6279        | 1.0225        | 6.1600e-003        | 0.1298        | 0.0106        | 0.1404        | 0.0355         | 0.0101        | 0.0456        |          | 693.9614        | 693.9614        | 0.0857        |     | 696.1035        |
| 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       | 0.0265        | 0.0181        | 0.1770        | 6.0000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 59.4778         | 59.4778         | 1.2900e-003   |     | 59.5100         |
| <b>Total</b> | <b>0.1024</b> | <b>2.6460</b> | <b>1.1995</b> | <b>6.7600e-003</b> | <b>0.1955</b> | <b>0.0110</b> | <b>0.2065</b> | <b>0.0530</b>  | <b>0.0105</b> | <b>0.0634</b> |          | <b>753.4393</b> | <b>753.4393</b> | <b>0.0870</b> |     | <b>755.6134</b> |

### **3.4 Grading - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.4345        | 0.0000        | 1.4345        | 0.4874         | 0.0000        | 0.4874        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        |          | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>1.4345</b> | <b>0.4370</b> | <b>1.8715</b> | <b>0.4874</b>  | <b>0.4020</b> | <b>0.8894</b> |          | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473        | 74.3473        | 1.6100e-003        |     | 74.3875        |
| <b>Total</b> | <b>0.0331</b> | <b>0.0227</b> | <b>0.2213</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>74.3473</b> | <b>74.3473</b> | <b>1.6100e-003</b> |     | <b>74.3875</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 |               |               |               |               | 0.6455        | 0.0000        | 0.6455        | 0.2193         | 0.0000        | 0.2193        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        | 0.0000        | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>0.6455</b> | <b>0.4370</b> | <b>1.0825</b> | <b>0.2193</b>  | <b>0.4020</b> | <b>0.6214</b> | <b>0.0000</b> | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473        | 74.3473        | 1.6100e-003        |     | 74.3875        |
| <b>Total</b> | <b>0.0331</b> | <b>0.0227</b> | <b>0.2213</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>74.3473</b> | <b>74.3473</b> | <b>1.6100e-003</b> |     | <b>74.3875</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        |          | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> |          | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0195        | 0.5113        | 0.2053        | 1.0700e-003        | 0.0270        | 3.5700e-003        | 0.0306        | 7.7700e-003    | 3.4200e-003        | 0.0112        |          | 116.7686        | 116.7686        | 0.0106        |     | 117.0328        |
| Worker       | 0.0696        | 0.0476        | 0.4647        | 1.5700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 156.1293        | 156.1293        | 3.3800e-003   |     | 156.2137        |
| <b>Total</b> | <b>0.0891</b> | <b>0.5589</b> | <b>0.6700</b> | <b>2.6400e-003</b> | <b>0.1995</b> | <b>4.6300e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.4000e-003</b> | <b>0.0579</b> |          | <b>272.8979</b> | <b>272.8979</b> | <b>0.0140</b> |     | <b>273.2465</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     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        | 0.0000        | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> | <b>0.0000</b> | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0195        | 0.5113        | 0.2053        | 1.0700e-003        | 0.0270        | 3.5700e-003        | 0.0306        | 7.7700e-003    | 3.4200e-003        | 0.0112        |          | 116.7686        | 116.7686        | 0.0106        |     | 117.0328        |
| Worker       | 0.0696        | 0.0476        | 0.4647        | 1.5700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 156.1293        | 156.1293        | 3.3800e-003   |     | 156.2137        |
| <b>Total</b> | <b>0.0891</b> | <b>0.5589</b> | <b>0.6700</b> | <b>2.6400e-003</b> | <b>0.1995</b> | <b>4.6300e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.4000e-003</b> | <b>0.0579</b> |          | <b>272.8979</b> | <b>272.8979</b> | <b>0.0140</b> |     | <b>273.2465</b> |

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        |          | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> |          | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0159        | 0.4641        | 0.1928        | 1.0500e-003        | 0.0270        | 2.3400e-003        | 0.0293        | 7.7700e-003    | 2.2400e-003        | 0.0100        |          | 115.6521        | 115.6521        | 0.0103        |     | 115.9090        |
| Worker       | 0.0642        | 0.0422        | 0.4208        | 1.5200e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 151.1710        | 151.1710        | 2.9700e-003   |     | 151.2452        |
| <b>Total</b> | <b>0.0801</b> | <b>0.5063</b> | <b>0.6136</b> | <b>2.5700e-003</b> | <b>0.1995</b> | <b>3.3800e-003</b> | <b>0.2029</b> | <b>0.0535</b>  | <b>3.2000e-003</b> | <b>0.0567</b> |          | <b>266.8230</b> | <b>266.8230</b> | <b>0.0133</b> |     | <b>267.1543</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     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        | 0.0000        | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> | <b>0.0000</b> | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0159        | 0.4641        | 0.1928        | 1.0500e-003        | 0.0270        | 2.3400e-003        | 0.0293        | 7.7700e-003    | 2.2400e-003        | 0.0100        |          | 115.6521        | 115.6521        | 0.0103        |     | 115.9090        |
| Worker       | 0.0642        | 0.0422        | 0.4208        | 1.5200e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 151.1710        | 151.1710        | 2.9700e-003   |     | 151.2452        |
| <b>Total</b> | <b>0.0801</b> | <b>0.5063</b> | <b>0.6136</b> | <b>2.5700e-003</b> | <b>0.1995</b> | <b>3.3800e-003</b> | <b>0.2029</b> | <b>0.0535</b>  | <b>3.2000e-003</b> | <b>0.0567</b> |          | <b>266.8230</b> | <b>266.8230</b> | <b>0.0133</b> |     | <b>267.1543</b> |

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        |          | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> |          | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0550        | 0.0362        | 0.3607        | 1.3000e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 129.5751        | 129.5751        | 2.5500e-003        |     | 129.6388        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0362</b> | <b>0.3607</b> | <b>1.3000e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>129.5751</b> | <b>129.5751</b> | <b>2.5500e-003</b> |     | <b>129.6388</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     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        | 0.0000        | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> | <b>0.0000</b> | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0550        | 0.0362        | 0.3607        | 1.3000e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 129.5751        | 129.5751        | 2.5500e-003        |     | 129.6388        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0362</b> | <b>0.3607</b> | <b>1.3000e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>129.5751</b> | <b>129.5751</b> | <b>2.5500e-003</b> |     | <b>129.6388</b> |

## 3.7 Architectural Coating - 2020

### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        |          | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</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       | 0.0122        | 8.0400e-003        | 0.0802        | 2.9000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 28.7945        | 28.7945        | 5.7000e-004        |     | 28.8086        |
| <b>Total</b> | <b>0.0122</b> | <b>8.0400e-003</b> | <b>0.0802</b> | <b>2.9000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>28.7945</b> | <b>28.7945</b> | <b>5.7000e-004</b> |     | <b>28.8086</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 | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        | 0.0000        | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</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       | 0.0122        | 8.0400e-003        | 0.0802        | 2.9000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 28.7945        | 28.7945        | 5.7000e-004        |     | 28.8086        |
| <b>Total</b> | <b>0.0122</b> | <b>8.0400e-003</b> | <b>0.0802</b> | <b>2.9000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>28.7945</b> | <b>28.7945</b> | <b>5.7000e-004</b> |     | <b>28.8086</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   | 0.2637 | 0.8344 | 3.0003 | 9.0300e-003 | 0.8387        | 0.0100       | 0.8487     | 0.2246         | 9.3900e-003   | 0.2340      |          | 909.0653  | 909.0653  | 0.0353 |     | 909.9468 |
| Unmitigated | 0.2637 | 0.8344 | 3.0003 | 9.0300e-003 | 0.8387        | 0.0100       | 0.8487     | 0.2246         | 9.3900e-003   | 0.2340      |          | 909.0653  | 909.0653  | 0.0353 |     | 909.9468 |

### 4.2 Trip Summary Information

| Land Use                       | Average Daily Trip Rate |          |        | Unmitigated | Mitigated  |
|--------------------------------|-------------------------|----------|--------|-------------|------------|
|                                | Weekday                 | Saturday | Sunday | Annual VMT  | Annual VMT |
| Apartments Mid Rise            | 120.12                  | 120.12   | 120.12 | 277,430     | 277,430    |
| Enclosed Parking with Elevator | 0.00                    | 0.00     | 0.00   |             |            |
| Other Non-Asphalt Surfaces     | 0.00                    | 0.00     | 0.00   |             |            |
| Regional Shopping Center       | 66.99                   | 66.99    | 66.99  | 117,454     | 117,454    |
| Total                          | 187.11                  | 187.11   | 187.11 | 394,884     | 394,884    |

### 4.3 Trip Type Information

| Land Use                       | Miles      |            |             | Trip %    |            |             | Trip Purpose % |          |         |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
|                                | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Mid Rise            | 10.80      | 4.80       | 5.70        | 31.00     | 15.00      | 54.00       | 86             | 11       | 3       |
| Enclosed Parking with Elevator | 9.50       | 7.30       | 7.30        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Other Non-Asphalt Surfaces     | 9.50       | 7.30       | 7.30        | 0.00      | 0.00       | 0.00        | 0              | 0        | 0       |
| Regional Shopping Center       | 9.50       | 7.30       | 7.30        | 16.30     | 64.70      | 19.00       | 54             | 35       | 11      |

### 4.4 Fleet Mix

| Land Use                       | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|--------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise            | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Enclosed Parking with Elevator | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Other Non-Asphalt Surfaces     | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |
| Regional Shopping Center       | 0.490452 | 0.049742 | 0.253638 | 0.136789 | 0.017926 | 0.006526 | 0.021436 | 0.006323 | 0.003943 | 0.003278 | 0.008771 | 0.000435 | 0.000741 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

|                        | ROG         | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total  | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e    |
|------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|---------|
| Category               | lb/day      |        |        |             |               |              |             |                |               |             | lb/day   |           |           |             |             |         |
| NaturalGas Mitigated   | 6.9900e-003 | 0.0599 | 0.0266 | 3.8000e-004 |               | 4.8300e-003  | 4.8300e-003 |                | 4.8300e-003   | 4.8300e-003 |          | 76.2776   | 76.2776   | 1.4600e-003 | 1.4000e-003 | 76.7309 |
| NaturalGas Unmitigated | 6.9900e-003 | 0.0599 | 0.0266 | 3.8000e-004 |               | 4.8300e-003  | 4.8300e-003 |                | 4.8300e-003   | 4.8300e-003 |          | 76.2776   | 76.2776   | 1.4600e-003 | 1.4000e-003 | 76.7309 |

### 5.2 Energy by Land Use - NaturalGas

#### Unmitigated

|                                | NaturalGas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr        | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Apartments Mid Rise            | 621.894        | 6.7100e-003        | 0.0573        | 0.0244        | 3.7000e-004        |               | 4.6300e-003        | 4.6300e-003        |                | 4.6300e-003        | 4.6300e-003        |          | 73.1640        | 73.1640        | 1.4000e-003        | 1.3400e-003        | 73.5987        |
| Enclosed Parking with Elevator | 0              | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0              | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 26.4658        | 2.9000e-004        | 2.5900e-003   | 2.1800e-003   | 2.0000e-005        |               | 2.0000e-004        | 2.0000e-004        |                | 2.0000e-004        | 2.0000e-004        |          | 3.1136         | 3.1136         | 6.0000e-005        | 6.0000e-005        | 3.1321         |
| <b>Total</b>                   |                | <b>7.0000e-003</b> | <b>0.0599</b> | <b>0.0266</b> | <b>3.9000e-004</b> |               | <b>4.8300e-003</b> | <b>4.8300e-003</b> |                | <b>4.8300e-003</b> | <b>4.8300e-003</b> |          | <b>76.2776</b> | <b>76.2776</b> | <b>1.4600e-003</b> | <b>1.4000e-003</b> | <b>76.7309</b> |

## Mitigated

|                                | Natural Gas Use | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O                | CO2e           |
|--------------------------------|-----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use                       | kBTU/yr         | lb/day             |               |               |                    |               |                    |                    |                |                    |                    | lb/day   |                |                |                    |                    |                |
| Apartments Mid Rise            | 0.621894        | 6.7100e-003        | 0.0573        | 0.0244        | 3.7000e-004        |               | 4.6300e-003        | 4.6300e-003        |                | 4.6300e-003        | 4.6300e-003        |          | 73.1640        | 73.1640        | 1.4000e-003        | 1.3400e-003        | 73.5987        |
| Enclosed Parking with Elevator | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Other Non-Asphalt Surfaces     | 0               | 0.0000             | 0.0000        | 0.0000        | 0.0000             |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             | 0.0000             | 0.0000         |
| Regional Shopping Center       | 0.0264658       | 2.9000e-004        | 2.5900e-003   | 2.1800e-003   | 2.0000e-005        |               | 2.0000e-004        | 2.0000e-004        |                | 2.0000e-004        | 2.0000e-004        |          | 3.1136         | 3.1136         | 6.0000e-005        | 6.0000e-005        | 3.1321         |
| <b>Total</b>                   |                 | <b>7.0000e-003</b> | <b>0.0599</b> | <b>0.0266</b> | <b>3.9000e-004</b> |               | <b>4.8300e-003</b> | <b>4.8300e-003</b> |                | <b>4.8300e-003</b> | <b>4.8300e-003</b> |          | <b>76.2776</b> | <b>76.2776</b> | <b>1.4600e-003</b> | <b>1.4000e-003</b> | <b>76.7309</b> |

## 6.0 Area Detail

### 6.1 Mitigation Measures Area

Use Electric Lawnmower

Use Electric Leafblower

Use Electric Chainsaw

|             | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O         | CO2e     |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|-------------|----------|
| Category    | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |        |             |          |
| Mitigated   | 1.4815 | 0.1431 | 4.7997 | 9.1700e-003 |               | 0.4468       | 0.4468     |                | 0.4468        | 0.4468      | 63.3150  | 100.1836  | 163.4986  | 0.3016 | 1.7700e-003 | 171.5637 |
| Unmitigated | 1.4824 | 0.1433 | 4.8153 | 9.1700e-003 |               | 0.4469       | 0.4469     |                | 0.4469        | 0.4469      | 63.3150  | 100.2184  | 163.5334  | 0.3016 | 1.7700e-003 | 171.5999 |

## 6.2 Area by SubCategory

### Unmitigated

|                       | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-----------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| SubCategory           | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Architectural Coating | 0.1692 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |             |             | 0.0000   |
| Consumer Products     | 0.9492 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |             |             | 0.0000   |
| Hearth                | 0.2984 | 0.1184 | 2.6617 | 9.0600e-003 |               | 0.4351       | 0.4351     |                | 0.4351        | 0.4351      | 63.3150  | 96.3529   | 159.6679  | 0.2978      | 1.7700e-003 | 167.6401 |
| Landscaping           | 0.0657 | 0.0249 | 2.1536 | 1.1000e-004 |               | 0.0118       | 0.0118     |                | 0.0118        | 0.0118      |          | 3.8655    | 3.8655    | 3.7700e-003 |             | 3.9598   |
| Total                 | 1.4824 | 0.1433 | 4.8153 | 9.1700e-003 |               | 0.4469       | 0.4469     |                | 0.4469        | 0.4469      | 63.3150  | 100.2184  | 163.5334  | 0.3016      | 1.7700e-003 | 171.5999 |

### Mitigated

|                       | ROG    | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4         | N2O         | CO2e     |
|-----------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| SubCategory           | lb/day |        |        |             |               |              |            |                |               |             | lb/day   |           |           |             |             |          |
| Architectural Coating | 0.1692 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |             |             | 0.0000   |
| Consumer Products     | 0.9492 |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      |          |           | 0.0000    |             |             | 0.0000   |
| Hearth                | 0.2984 | 0.1184 | 2.6617 | 9.0600e-003 |               | 0.4351       | 0.4351     |                | 0.4351        | 0.4351      | 63.3150  | 96.3529   | 159.6679  | 0.2978      | 1.7700e-003 | 167.6401 |
| Landscaping           | 0.0647 | 0.0248 | 2.1381 | 1.1000e-004 |               | 0.0118       | 0.0118     |                | 0.0118        | 0.0118      |          | 3.8306    | 3.8306    | 3.7200e-003 |             | 3.9237   |
| Total                 | 1.4815 | 0.1431 | 4.7997 | 9.1700e-003 |               | 0.4468       | 0.4468     |                | 0.4468        | 0.4468      | 63.3150  | 100.1836  | 163.4986  | 0.3016      | 1.7700e-003 | 171.5638 |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

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Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV) - San Mateo County, Annual

**619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV)**  
**San Mateo County, Annual**

**1.0 Project Characteristics****1.1 Land Usage**

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |       |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |       | <b>Operational Year</b>          | 2020  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 491.65                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.022 | <b>N2O Intensity (lb/MW hr)</b>  | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Tier IV Mitigated Construction  
 Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan  
 26-unit live-work building with space for commercial occupancy  
 12 at-grade parking and 22 spaces in vehicle lifts

Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information



Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Tier IV mitigation for construction equipment >50 HP

| Table Name              | Column Name                  | Default Value | New Value    |
|-------------------------|------------------------------|---------------|--------------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 8.00         |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstructionPhase    | NumDays                      | 10.00         | 8.00         |
| tblConstructionPhase    | NumDays                      | 1.00          | 21.00        |

|                      |                            |           |           |
|----------------------|----------------------------|-----------|-----------|
| tblConstructionPhase | NumDays                    | 2.00      | 7.00      |
| tblConstructionPhase | NumDays                    | 100.00    | 320.00    |
| tblConstructionPhase | NumDays                    | 5.00      | 3.00      |
| tblConstructionPhase | NumDays                    | 5.00      | 14.00     |
| tblFireplaces        | FireplaceWoodMass          | 228.80    | 0.00      |
| tblFireplaces        | NumberWood                 | 4.42      | 0.00      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | MaterialExported           | 0.00      | 1,255.00  |
| tblLandUse           | LandUseSquareFeet          | 5,227.20  | 0.00      |
| tblLandUse           | LandUseSquareFeet          | 26,000.00 | 42,174.00 |
| tblLandUse           | LotAcreage                 | 0.68      | 0.17      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 187.00    | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 247.00    | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.41      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.40      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 2.00      | 1.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 6.00      | 0.60      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 1.00      | 0.00      |

|                           |                    |        |        |
|---------------------------|--------------------|--------|--------|
| tblProjectCharacteristics | CH4IntensityFactor | 0.029  | 0.022  |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 491.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006  | 0.005  |
| tblVehicleTrips           | ST_TR              | 6.39   | 4.62   |
| tblVehicleTrips           | ST_TR              | 49.97  | 31.90  |
| tblVehicleTrips           | SU_TR              | 5.86   | 4.62   |
| tblVehicleTrips           | SU_TR              | 25.24  | 31.90  |
| tblVehicleTrips           | WD_TR              | 6.65   | 4.62   |
| tblVehicleTrips           | WD_TR              | 42.70  | 31.90  |

## 2.0 Emissions Summary

### 2.1 Overall Construction

#### Unmitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.1069  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0361        | 0.0586       | 0.0947     | 9.1800e-003    | 0.0540        | 0.0631      | 0.0000   | 155.8877  | 155.8877  | 0.0399 | 0.0000 | 156.8861 |
| 2020    | 0.3465  | 0.3793 | 0.3238 | 6.0000e-004 | 9.5200e-003   | 0.0198       | 0.0293     | 2.5600e-003    | 0.0183        | 0.0209      | 0.0000   | 53.5694   | 53.5694   | 0.0136 | 0.0000 | 53.9083  |
| Maximum | 0.3465  | 1.1265 | 0.8919 | 1.7100e-003 | 0.0361        | 0.0586       | 0.0947     | 9.1800e-003    | 0.0540        | 0.0631      | 0.0000   | 155.8877  | 155.8877  | 0.0399 | 0.0000 | 156.8861 |

#### Mitigated Construction

|         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Year    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| 2019    | 0.0268  | 0.1669 | 0.9561 | 1.7100e-003 | 0.0297        | 2.8200e-003  | 0.0325     | 7.7500e-003    | 2.7900e-003   | 0.0105      | 0.0000   | 155.8876  | 155.8876  | 0.0399 | 0.0000 | 156.8859 |
| 2020    | 0.3199  | 0.0614 | 0.3422 | 6.0000e-004 | 9.5200e-003   | 1.7400e-003  | 0.0113     | 2.5600e-003    | 1.7300e-003   | 4.2900e-003 | 0.0000   | 53.5694   | 53.5694   | 0.0136 | 0.0000 | 53.9082  |
| Maximum | 0.3199  | 0.1669 | 0.9561 | 1.7100e-003 | 0.0297        | 2.8200e-003  | 0.0325     | 7.7500e-003    | 2.7900e-003   | 0.0105      | 0.0000   | 155.8876  | 155.8876  | 0.0399 | 0.0000 | 156.8859 |

|                   | ROG   | NOx   | CO    | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|-------|-------|-------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 23.53 | 84.84 | -6.80 | 0.00 | 14.04         | 94.19        | 64.73      | 12.18          | 93.74         | 82.34       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date   | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|----------------------------------------------|--------------------------------------------|
| 1       | 1-1-2019   | 3-31-2019  | 0.3321                                       | 0.0712                                     |
| 2       | 4-1-2019   | 6-30-2019  | 0.2970                                       | 0.0398                                     |
| 3       | 7-1-2019   | 9-30-2019  | 0.3002                                       | 0.0402                                     |
| 4       | 10-1-2019  | 12-31-2019 | 0.3011                                       | 0.0411                                     |
| 5       | 1-1-2020   | 3-31-2020  | 0.2680                                       | 0.0386                                     |
| 6       | 4-1-2020   | 6-30-2020  | 0.4610                                       | 0.3486                                     |
|         |            | Highest    | 0.4610                                       | 0.3486                                     |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 4.5**

**Acres of Paving: 0.23**

**Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking**

## OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

## Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 4.1600e-003        | 0.0000             | 4.1600e-003        | 6.3000e-004        | 0.0000             | 6.3000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 3.4800e-003        | 0.0355        | 0.0399        | 6.0000e-005        |                    | 1.9700e-003        | 1.9700e-003        |                    | 1.8100e-003        | 1.8100e-003        | 0.0000        | 5.3835        | 5.3835        | 1.7000e-003        | 0.0000        | 5.4261        |
| <b>Total</b>  | <b>3.4800e-003</b> | <b>0.0355</b> | <b>0.0399</b> | <b>6.0000e-005</b> | <b>4.1600e-003</b> | <b>1.9700e-003</b> | <b>6.1300e-003</b> | <b>6.3000e-004</b> | <b>1.8100e-003</b> | <b>2.4400e-003</b> | <b>0.0000</b> | <b>5.3835</b> | <b>5.3835</b> | <b>1.7000e-003</b> | <b>0.0000</b> | <b>5.4261</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.9000e-004        | 6.6400e-003        | 2.5500e-003        | 2.0000e-005        | 3.2000e-004        | 3.0000e-005        | 3.4000e-004        | 9.0000e-005        | 3.0000e-005        | 1.1000e-004        | 0.0000        | 1.6097        | 1.6097        | 2.0000e-004        | 0.0000        | 1.6146        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2000e-004        | 8.0000e-005        | 8.6000e-004        | 0.0000             | 3.1000e-004        | 0.0000             | 3.2000e-004        | 8.0000e-005        | 0.0000             | 9.0000e-005        | 0.0000        | 0.2708        | 0.2708        | 1.0000e-005        | 0.0000        | 0.2710        |
| <b>Total</b> | <b>3.1000e-004</b> | <b>6.7200e-003</b> | <b>3.4100e-003</b> | <b>2.0000e-005</b> | <b>6.3000e-004</b> | <b>3.0000e-005</b> | <b>6.6000e-004</b> | <b>1.7000e-004</b> | <b>3.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>1.8805</b> | <b>1.8805</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.8856</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 |                    |                    |               |                    | 1.8700e-003        | 0.0000             | 1.8700e-003        | 2.8000e-004        | 0.0000             | 2.8000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 7.4000e-004        | 3.1900e-003        | 0.0454        | 6.0000e-005        |                    | 1.0000e-004        | 1.0000e-004        |                    | 1.0000e-004        | 1.0000e-004        | 0.0000        | 5.3835        | 5.3835        | 1.7000e-003        | 0.0000        | 5.4260        |
| <b>Total</b>  | <b>7.4000e-004</b> | <b>3.1900e-003</b> | <b>0.0454</b> | <b>6.0000e-005</b> | <b>1.8700e-003</b> | <b>1.0000e-004</b> | <b>1.9700e-003</b> | <b>2.8000e-004</b> | <b>1.0000e-004</b> | <b>3.8000e-004</b> | <b>0.0000</b> | <b>5.3835</b> | <b>5.3835</b> | <b>1.7000e-003</b> | <b>0.0000</b> | <b>5.4260</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 1.9000e-004        | 6.6400e-003        | 2.5500e-003        | 2.0000e-005        | 3.2000e-004        | 3.0000e-005        | 3.4000e-004        | 9.0000e-005        | 3.0000e-005        | 1.1000e-004        | 0.0000        | 1.6097        | 1.6097        | 2.0000e-004        | 0.0000        | 1.6146        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.2000e-004        | 8.0000e-005        | 8.6000e-004        | 0.0000             | 3.1000e-004        | 0.0000             | 3.2000e-004        | 8.0000e-005        | 0.0000             | 9.0000e-005        | 0.0000        | 0.2708        | 0.2708        | 1.0000e-005        | 0.0000        | 0.2710        |
| <b>Total</b> | <b>3.1000e-004</b> | <b>6.7200e-003</b> | <b>3.4100e-003</b> | <b>2.0000e-005</b> | <b>6.3000e-004</b> | <b>3.0000e-005</b> | <b>6.6000e-004</b> | <b>1.7000e-004</b> | <b>3.0000e-005</b> | <b>2.0000e-004</b> | <b>0.0000</b> | <b>1.8805</b> | <b>1.8805</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>1.8856</b> |

## 3.3 Site Preparation - 2019

### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Fugitive Dust |                    |               |               |                    | 2.4600e-003        | 0.0000             | 2.4600e-003        | 2.7000e-004        | 0.0000             | 2.7000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 8.1200e-003        | 0.0915        | 0.0801        | 1.9000e-004        |                    | 4.1000e-003        | 4.1000e-003        |                    | 3.7700e-003        | 3.7700e-003        | 0.0000        | 16.6307        | 16.6307        | 5.2600e-003        | 0.0000        | 16.7623        |
| <b>Total</b>  | <b>8.1200e-003</b> | <b>0.0915</b> | <b>0.0801</b> | <b>1.9000e-004</b> | <b>2.4600e-003</b> | <b>4.1000e-003</b> | <b>6.5600e-003</b> | <b>2.7000e-004</b> | <b>3.7700e-003</b> | <b>4.0400e-003</b> | <b>0.0000</b> | <b>16.6307</b> | <b>16.6307</b> | <b>5.2600e-003</b> | <b>0.0000</b> | <b>16.7623</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      | 7.9000e-004        | 0.0274        | 0.0105        | 7.0000e-005        | 1.3100e-003        | 1.1000e-004        | 1.4200e-003        | 3.6000e-004        | 1.0000e-004        | 4.7000e-004        | 0.0000        | 6.6505        | 6.6505        | 8.1000e-004        | 0.0000        | 6.6708        |
| 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       | 2.5000e-004        | 1.7000e-004   | 1.8000e-003   | 1.0000e-005        | 6.6000e-004        | 0.0000             | 6.7000e-004        | 1.8000e-004        | 0.0000             | 1.8000e-004        | 0.0000        | 0.5687        | 0.5687        | 1.0000e-005        | 0.0000        | 0.5690        |
| <b>Total</b> | <b>1.0400e-003</b> | <b>0.0276</b> | <b>0.0123</b> | <b>8.0000e-005</b> | <b>1.9700e-003</b> | <b>1.1000e-004</b> | <b>2.0900e-003</b> | <b>5.4000e-004</b> | <b>1.0000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>7.2192</b> | <b>7.2192</b> | <b>8.2000e-004</b> | <b>0.0000</b> | <b>7.2398</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 |                    |                    |               |                    | 1.1100e-003        | 0.0000             | 1.1100e-003        | 1.2000e-004        | 0.0000             | 1.2000e-004        | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Off-Road      | 2.2900e-003        | 9.9400e-003        | 0.1108        | 1.9000e-004        |                    | 3.1000e-004        | 3.1000e-004        |                    | 3.1000e-004        | 3.1000e-004        | 0.0000        | 16.6307        | 16.6307        | 5.2600e-003        | 0.0000        | 16.7623        |
| <b>Total</b>  | <b>2.2900e-003</b> | <b>9.9400e-003</b> | <b>0.1108</b> | <b>1.9000e-004</b> | <b>1.1100e-003</b> | <b>3.1000e-004</b> | <b>1.4200e-003</b> | <b>1.2000e-004</b> | <b>3.1000e-004</b> | <b>4.3000e-004</b> | <b>0.0000</b> | <b>16.6307</b> | <b>16.6307</b> | <b>5.2600e-003</b> | <b>0.0000</b> | <b>16.7623</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      | 7.9000e-004        | 0.0274        | 0.0105        | 7.0000e-005        | 1.3100e-003        | 1.1000e-004        | 1.4200e-003        | 3.6000e-004        | 1.0000e-004        | 4.7000e-004        | 0.0000        | 6.6505        | 6.6505        | 8.1000e-004        | 0.0000        | 6.6708        |
| 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       | 2.5000e-004        | 1.7000e-004   | 1.8000e-003   | 1.0000e-005        | 6.6000e-004        | 0.0000             | 6.7000e-004        | 1.8000e-004        | 0.0000             | 1.8000e-004        | 0.0000        | 0.5687        | 0.5687        | 1.0000e-005        | 0.0000        | 0.5690        |
| <b>Total</b> | <b>1.0400e-003</b> | <b>0.0276</b> | <b>0.0123</b> | <b>8.0000e-005</b> | <b>1.9700e-003</b> | <b>1.1000e-004</b> | <b>2.0900e-003</b> | <b>5.4000e-004</b> | <b>1.0000e-004</b> | <b>6.5000e-004</b> | <b>0.0000</b> | <b>7.2192</b> | <b>7.2192</b> | <b>8.2000e-004</b> | <b>0.0000</b> | <b>7.2398</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG                | NOx           | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |               |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |               |               |                    | 5.0200e-003        | 0.0000             | 5.0200e-003        | 1.7100e-003        | 0.0000             | 1.7100e-003        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 2.6300e-003        | 0.0269        | 0.0254        | 4.0000e-005        |                    | 1.5300e-003        | 1.5300e-003        |                    | 1.4100e-003        | 1.4100e-003        | 0.0000        | 3.4232        | 3.4232        | 1.0800e-003        | 0.0000        | 3.4503        |
| <b>Total</b>  | <b>2.6300e-003</b> | <b>0.0269</b> | <b>0.0254</b> | <b>4.0000e-005</b> | <b>5.0200e-003</b> | <b>1.5300e-003</b> | <b>6.5500e-003</b> | <b>1.7100e-003</b> | <b>1.4100e-003</b> | <b>3.1200e-003</b> | <b>0.0000</b> | <b>3.4232</b> | <b>3.4232</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.4503</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0000e-004        | 7.0000e-005        | 7.5000e-004        | 0.0000        | 2.8000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2370        | 0.2370        | 1.0000e-005        | 0.0000        | 0.2371        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>7.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2370</b> | <b>0.2370</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2371</b> |

#### Mitigated Construction On-Site

|               | ROG                | NOx                | CO            | SO2                | Fugitive PM10      | Exhaust PM10       | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|---------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category      | tons/yr            |                    |               |                    |                    |                    |                    |                    |                    |                    | MT/yr         |               |               |                    |               |               |
| Fugitive Dust |                    |                    |               |                    | 2.2600e-003        | 0.0000             | 2.2600e-003        | 7.7000e-004        | 0.0000             | 7.7000e-004        | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road      | 4.7000e-004        | 2.0300e-003        | 0.0277        | 4.0000e-005        |                    | 6.0000e-005        | 6.0000e-005        |                    | 6.0000e-005        | 6.0000e-005        | 0.0000        | 3.4232        | 3.4232        | 1.0800e-003        | 0.0000        | 3.4503        |
| <b>Total</b>  | <b>4.7000e-004</b> | <b>2.0300e-003</b> | <b>0.0277</b> | <b>4.0000e-005</b> | <b>2.2600e-003</b> | <b>6.0000e-005</b> | <b>2.3200e-003</b> | <b>7.7000e-004</b> | <b>6.0000e-005</b> | <b>8.3000e-004</b> | <b>0.0000</b> | <b>3.4232</b> | <b>3.4232</b> | <b>1.0800e-003</b> | <b>0.0000</b> | <b>3.4503</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |                    |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Worker       | 1.0000e-004        | 7.0000e-005        | 7.5000e-004        | 0.0000        | 2.8000e-004        | 0.0000        | 2.8000e-004        | 7.0000e-005        | 0.0000        | 7.0000e-005        | 0.0000        | 0.2370        | 0.2370        | 1.0000e-005        | 0.0000        | 0.2371        |
| <b>Total</b> | <b>1.0000e-004</b> | <b>7.0000e-005</b> | <b>7.5000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>0.0000</b> | <b>2.8000e-004</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>7.0000e-005</b> | <b>0.0000</b> | <b>0.2370</b> | <b>0.2370</b> | <b>1.0000e-005</b> | <b>0.0000</b> | <b>0.2371</b> |

### **3.5 Building Construction - 2019**

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0821        | 0.8759        | 0.6572        | 1.0400e-003        |               | 0.0504        | 0.0504        |                | 0.0463        | 0.0463        | 0.0000        | 93.0810        | 93.0810        | 0.0295        | 0.0000        | 93.8173        |
| <b>Total</b> | <b>0.0821</b> | <b>0.8759</b> | <b>0.6572</b> | <b>1.0400e-003</b> |               | <b>0.0504</b> | <b>0.0504</b> |                | <b>0.0463</b> | <b>0.0463</b> | <b>0.0000</b> | <b>93.0810</b> | <b>93.0810</b> | <b>0.0295</b> | <b>0.0000</b> | <b>93.8173</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 2.1400e-003        | 0.0575        | 0.0221        | 1.2000e-004        | 2.9300e-003   | 4.0000e-004        | 3.3300e-003   | 8.5000e-004        | 3.8000e-004        | 1.2300e-003        | 0.0000        | 12.0377        | 12.0377        | 1.0600e-003        | 0.0000        | 12.0643        |
| Worker       | 6.9900e-003        | 4.9200e-003   | 0.0507        | 1.8000e-004        | 0.0186        | 1.2000e-004        | 0.0187        | 4.9500e-003        | 1.1000e-004        | 5.0600e-003        | 0.0000        | 15.9949        | 15.9949        | 3.4000e-004        | 0.0000        | 16.0035        |
| <b>Total</b> | <b>9.1300e-003</b> | <b>0.0624</b> | <b>0.0728</b> | <b>3.0000e-004</b> | <b>0.0215</b> | <b>5.2000e-004</b> | <b>0.0221</b> | <b>5.8000e-003</b> | <b>4.9000e-004</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>28.0326</b> | <b>28.0326</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>28.0677</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     | 0.0127        | 0.0550        | 0.6830        | 1.0400e-003        |               | 1.6900e-003        | 1.6900e-003        |                | 1.6900e-003        | 1.6900e-003        | 0.0000        | 93.0809        | 93.0809        | 0.0295        | 0.0000        | 93.8172        |
| <b>Total</b> | <b>0.0127</b> | <b>0.0550</b> | <b>0.6830</b> | <b>1.0400e-003</b> |               | <b>1.6900e-003</b> | <b>1.6900e-003</b> |                | <b>1.6900e-003</b> | <b>1.6900e-003</b> | <b>0.0000</b> | <b>93.0809</b> | <b>93.0809</b> | <b>0.0295</b> | <b>0.0000</b> | <b>93.8172</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4                | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |               |                    |                    |                    | MT/yr         |                |                |                    |               |                |
| Hauling      | 0.0000             | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000         | 0.0000         | 0.0000             | 0.0000        | 0.0000         |
| Vendor       | 2.1400e-003        | 0.0575        | 0.0221        | 1.2000e-004        | 2.9300e-003   | 4.0000e-004        | 3.3300e-003   | 8.5000e-004        | 3.8000e-004        | 1.2300e-003        | 0.0000        | 12.0377        | 12.0377        | 1.0600e-003        | 0.0000        | 12.0643        |
| Worker       | 6.9900e-003        | 4.9200e-003   | 0.0507        | 1.8000e-004        | 0.0186        | 1.2000e-004        | 0.0187        | 4.9500e-003        | 1.1000e-004        | 5.0600e-003        | 0.0000        | 15.9949        | 15.9949        | 3.4000e-004        | 0.0000        | 16.0035        |
| <b>Total</b> | <b>9.1300e-003</b> | <b>0.0624</b> | <b>0.0728</b> | <b>3.0000e-004</b> | <b>0.0215</b> | <b>5.2000e-004</b> | <b>0.0221</b> | <b>5.8000e-003</b> | <b>4.9000e-004</b> | <b>6.2900e-003</b> | <b>0.0000</b> | <b>28.0326</b> | <b>28.0326</b> | <b>1.4000e-003</b> | <b>0.0000</b> | <b>28.0677</b> |

## 3.5 Building Construction - 2020

### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Off-Road     | 0.0312        | 0.3327        | 0.2710        | 4.4000e-004        |               | 0.0183        | 0.0183        |                | 0.0168        | 0.0168        | 0.0000        | 38.4389        | 38.4389        | 0.0124        | 0.0000        | 38.7497        |
| <b>Total</b> | <b>0.0312</b> | <b>0.3327</b> | <b>0.2710</b> | <b>4.4000e-004</b> |               | <b>0.0183</b> | <b>0.0183</b> |                | <b>0.0168</b> | <b>0.0168</b> | <b>0.0000</b> | <b>38.4389</b> | <b>38.4389</b> | <b>0.0124</b> | <b>0.0000</b> | <b>38.7497</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       | 7.4000e-004        | 0.0220        | 8.7700e-003   | 5.0000e-005        | 1.2400e-003        | 1.1000e-004        | 1.3500e-003        | 3.6000e-004        | 1.1000e-004        | 4.6000e-004        | 0.0000        | 5.0349         | 5.0349         | 4.4000e-004        | 0.0000        | 5.0458         |
| Worker       | 2.7200e-003        | 1.8400e-003   | 0.0194        | 7.0000e-005        | 7.8500e-003        | 5.0000e-005        | 7.9000e-003        | 2.0900e-003        | 5.0000e-005        | 2.1400e-003        | 0.0000        | 6.5389         | 6.5389         | 1.3000e-004        | 0.0000        | 6.5421         |
| <b>Total</b> | <b>3.4600e-003</b> | <b>0.0239</b> | <b>0.0282</b> | <b>1.2000e-004</b> | <b>9.0900e-003</b> | <b>1.6000e-004</b> | <b>9.2500e-003</b> | <b>2.4500e-003</b> | <b>1.6000e-004</b> | <b>2.6000e-003</b> | <b>0.0000</b> | <b>11.5738</b> | <b>11.5738</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>11.5879</b> |

**Mitigated Construction On-Site**

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |                |                |               |               |                |
| Off-Road     | 5.3600e-003        | 0.0232        | 0.2884        | 4.4000e-004        |               | 7.1000e-004        | 7.1000e-004        |                | 7.1000e-004        | 7.1000e-004        | 0.0000        | 38.4388        | 38.4388        | 0.0124        | 0.0000        | 38.7496        |
| <b>Total</b> | <b>5.3600e-003</b> | <b>0.0232</b> | <b>0.2884</b> | <b>4.4000e-004</b> |               | <b>7.1000e-004</b> | <b>7.1000e-004</b> |                | <b>7.1000e-004</b> | <b>7.1000e-004</b> | <b>0.0000</b> | <b>38.4388</b> | <b>38.4388</b> | <b>0.0124</b> | <b>0.0000</b> | <b>38.7496</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       | 7.4000e-004        | 0.0220        | 8.7700e-003   | 5.0000e-005        | 1.2400e-003        | 1.1000e-004        | 1.3500e-003        | 3.6000e-004        | 1.1000e-004        | 4.6000e-004        | 0.0000        | 5.0349         | 5.0349         | 4.4000e-004        | 0.0000        | 5.0458         |
| Worker       | 2.7200e-003        | 1.8400e-003   | 0.0194        | 7.0000e-005        | 7.8500e-003        | 5.0000e-005        | 7.9000e-003        | 2.0900e-003        | 5.0000e-005        | 2.1400e-003        | 0.0000        | 6.5389         | 6.5389         | 1.3000e-004        | 0.0000        | 6.5421         |
| <b>Total</b> | <b>3.4600e-003</b> | <b>0.0239</b> | <b>0.0282</b> | <b>1.2000e-004</b> | <b>9.0900e-003</b> | <b>1.6000e-004</b> | <b>9.2500e-003</b> | <b>2.4500e-003</b> | <b>1.6000e-004</b> | <b>2.6000e-003</b> | <b>0.0000</b> | <b>11.5738</b> | <b>11.5738</b> | <b>5.7000e-004</b> | <b>0.0000</b> | <b>11.5879</b> |

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG                | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category     | tons/yr            |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Off-Road     | 1.1600e-003        | 0.0108        | 0.0107        | 2.0000e-005        |               | 5.9000e-004        | 5.9000e-004        |                | 5.5000e-004        | 5.5000e-004        | 0.0000        | 1.4089        | 1.4089        | 4.1000e-004        | 0.0000        | 1.4192        |
| 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>1.1600e-003</b> | <b>0.0108</b> | <b>0.0107</b> | <b>2.0000e-005</b> |               | <b>5.9000e-004</b> | <b>5.9000e-004</b> |                | <b>5.5000e-004</b> | <b>5.5000e-004</b> | <b>0.0000</b> | <b>1.4089</b> | <b>1.4089</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.4192</b> |

#### Unmitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.3000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1770        | 0.1770        | 0.0000        | 0.0000        | 0.1771        |
| <b>Total</b> | <b>7.0000e-005</b> | <b>5.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1770</b> | <b>0.1770</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1771</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     | 4.3000e-004        | 2.3800e-003        | 0.0117        | 2.0000e-005        |               | 9.0000e-005        | 9.0000e-005        |                | 9.0000e-005        | 9.0000e-005        | 0.0000        | 1.4089        | 1.4089        | 4.1000e-004        | 0.0000        | 1.4192        |
| 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>4.3000e-004</b> | <b>2.3800e-003</b> | <b>0.0117</b> | <b>2.0000e-005</b> |               | <b>9.0000e-005</b> | <b>9.0000e-005</b> |                | <b>9.0000e-005</b> | <b>9.0000e-005</b> | <b>0.0000</b> | <b>1.4089</b> | <b>1.4089</b> | <b>4.1000e-004</b> | <b>0.0000</b> | <b>1.4192</b> |

### Mitigated Construction Off-Site

|              | ROG                | NOx                | CO                 | SO2           | Fugitive PM10      | Exhaust PM10  | PM10 Total         | Fugitive PM2.5     | Exhaust PM2.5 | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|--------------------|--------------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr            |                    |                    |               |                    |               |                    |                    |               |                    | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000             | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 7.0000e-005        | 5.0000e-005        | 5.3000e-004        | 0.0000        | 2.1000e-004        | 0.0000        | 2.1000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1770        | 0.1770        | 0.0000        | 0.0000        | 0.1771        |
| <b>Total</b> | <b>7.0000e-005</b> | <b>5.0000e-005</b> | <b>5.3000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>0.0000</b> | <b>2.1000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1770</b> | <b>0.1770</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1771</b> |

### **3.7 Architectural Coating - 2020**

#### Unmitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3088        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.7000e-003   | 0.0118        | 0.0128        | 2.0000e-005        |               | 7.8000e-004        | 7.8000e-004        |                | 7.8000e-004        | 7.8000e-004        | 0.0000        | 1.7873        | 1.7873        | 1.4000e-004        | 0.0000        | 1.7907        |
| <b>Total</b>    | <b>0.3105</b> | <b>0.0118</b> | <b>0.0128</b> | <b>2.0000e-005</b> |               | <b>7.8000e-004</b> | <b>7.8000e-004</b> |                | <b>7.8000e-004</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>1.7873</b> | <b>1.7873</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.7907</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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.2000e-004        | 0.0000        | 2.2000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1836        | 0.1836        | 0.0000        | 0.0000        | 0.1836        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1836</b> | <b>0.1836</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1836</b> |

### Mitigated Construction On-Site

|                 | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total         | Fugitive PM2.5 | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2      | NBio- CO2     | Total CO2     | CH4                | N2O           | CO2e          |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category        | tons/yr       |               |               |                    |               |                    |                    |                |                    |                    | MT/yr         |               |               |                    |               |               |
| Archit. Coating | 0.3088        |               |               |                    |               | 0.0000             | 0.0000             |                | 0.0000             | 0.0000             | 0.0000        | 0.0000        | 0.0000        | 0.0000             | 0.0000        | 0.0000        |
| Off-Road        | 1.7000e-003   | 0.0118        | 0.0128        | 2.0000e-005        |               | 7.8000e-004        | 7.8000e-004        |                | 7.8000e-004        | 7.8000e-004        | 0.0000        | 1.7873        | 1.7873        | 1.4000e-004        | 0.0000        | 1.7907        |
| <b>Total</b>    | <b>0.3105</b> | <b>0.0118</b> | <b>0.0128</b> | <b>2.0000e-005</b> |               | <b>7.8000e-004</b> | <b>7.8000e-004</b> |                | <b>7.8000e-004</b> | <b>7.8000e-004</b> | <b>0.0000</b> | <b>1.7873</b> | <b>1.7873</b> | <b>1.4000e-004</b> | <b>0.0000</b> | <b>1.7907</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       | 8.0000e-005        | 5.0000e-005        | 5.4000e-004        | 0.0000        | 2.2000e-004        | 0.0000        | 2.2000e-004        | 6.0000e-005        | 0.0000        | 6.0000e-005        | 0.0000        | 0.1836        | 0.1836        | 0.0000        | 0.0000        | 0.1836        |
| <b>Total</b> | <b>8.0000e-005</b> | <b>5.0000e-005</b> | <b>5.4000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>0.0000</b> | <b>2.2000e-004</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>6.0000e-005</b> | <b>0.0000</b> | <b>0.1836</b> | <b>0.1836</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.1836</b> |



619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV) - San Mateo County, Summer

**619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV)**  
**San Mateo County, Summer**

**1.0 Project Characteristics****1.1 Land Usage**

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |       |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |       | <b>Operational Year</b>          | 2020  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 491.65                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.022 | <b>N2O Intensity (lb/MW hr)</b>  | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Tier IV Mitigated Construction  
 Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan  
 26-unit live-work building with space for commercial occupancy  
 12 at-grade parking and 22 spaces in vehicle lifts

Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

| Table Name              | Column Name                  | Default Value | New Value    |
|-------------------------|------------------------------|---------------|--------------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 8.00         |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstructionPhase    | NumDays                      | 10.00         | 8.00         |
| tblConstructionPhase    | NumDays                      | 1.00          | 21.00        |

|                      |                            |           |           |
|----------------------|----------------------------|-----------|-----------|
| tblConstructionPhase | NumDays                    | 2.00      | 7.00      |
| tblConstructionPhase | NumDays                    | 100.00    | 320.00    |
| tblConstructionPhase | NumDays                    | 5.00      | 3.00      |
| tblConstructionPhase | NumDays                    | 5.00      | 14.00     |
| tblFireplaces        | FireplaceWoodMass          | 228.80    | 0.00      |
| tblFireplaces        | NumberWood                 | 4.42      | 0.00      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | MaterialExported           | 0.00      | 1,255.00  |
| tblLandUse           | LandUseSquareFeet          | 5,227.20  | 0.00      |
| tblLandUse           | LandUseSquareFeet          | 26,000.00 | 42,174.00 |
| tblLandUse           | LotAcreage                 | 0.68      | 0.17      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 187.00    | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 247.00    | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.41      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.40      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 2.00      | 1.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 6.00      | 0.60      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 1.00      | 0.00      |

|                           |                    |        |        |
|---------------------------|--------------------|--------|--------|
| tblProjectCharacteristics | CH4IntensityFactor | 0.029  | 0.022  |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 491.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006  | 0.005  |
| tblVehicleTrips           | ST_TR              | 6.39   | 4.62   |
| tblVehicleTrips           | ST_TR              | 49.97  | 31.90  |
| tblVehicleTrips           | SU_TR              | 5.86   | 4.62   |
| tblVehicleTrips           | SU_TR              | 25.24  | 31.90  |
| tblVehicleTrips           | WD_TR              | 6.65   | 4.62   |
| tblVehicleTrips           | WD_TR              | 42.70  | 31.90  |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9476  | 11.2730 | 10.8390 | 0.0245 | 1.5167        | 0.4998       | 1.9542     | 0.5092         | 0.4600        | 0.9117      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |
| 2020    | 44.3716 | 7.4944  | 7.4853  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4105      | 0.0000   | 1,173.4740 | 1,173.4740 | 0.3043 | 0.0000 | 1,181.0804 |
| Maximum | 44.3716 | 11.2730 | 10.8390 | 0.0245 | 1.5167        | 0.4998       | 1.9542     | 0.5092         | 0.4600        | 0.9117      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |

#### Mitigated Construction

|         | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.3165  | 3.5086 | 12.2077 | 0.0245 | 0.7277        | 0.0398       | 0.7460     | 0.2411         | 0.0394        | 0.2594      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |
| 2020    | 44.3716 | 1.6904 | 8.2006  | 0.0126 | 0.1995        | 0.1111       | 0.2179     | 0.0535         | 0.1111        | 0.1198      | 0.0000   | 1,173.4740 | 1,173.4740 | 0.3043 | 0.0000 | 1,181.0804 |
| Maximum | 44.3716 | 3.5086 | 12.2077 | 0.0245 | 0.7277        | 0.1111       | 0.7460     | 0.2411         | 0.1111        | 0.2594      | 0.0000   | 2,510.5563 | 2,510.5563 | 0.6386 | 0.0000 | 2,526.5213 |

|                   | ROG  | NOx   | CO     | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|-------|--------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | 1.39 | 72.30 | -11.37 | 0.00 | 45.97         | 83.15        | 62.08      | 47.64          | 81.82         | 71.32       | 0.00     | 0.00      | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 4.5**

**Acres of Paving: 0.23**

**Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking**

## OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |
| Building Construction | Tractors/Loaders/Backhoes | 2      | 8.00        | 97          | 0.37        |
| Paving                | Cement and Mortar Mixers  | 4      | 6.00        | 9           | 0.56        |
| Paving                | Pavers                    | 1      | 7.00        | 130         | 0.42        |
| Paving                | Rollers                   | 1      | 7.00        | 80          | 0.38        |
| Paving                | Tractors/Loaders/Backhoes | 1      | 7.00        | 97          | 0.37        |
| Architectural Coating | Air Compressors           | 1      | 6.00        | 78          | 0.48        |

### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### **3.1 Mitigation Measures Construction**

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### **3.2 Demolition - 2019**

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.0395        | 0.0000        | 1.0395        | 0.1574         | 0.0000        | 0.1574        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.8707        | 8.8698        | 9.9804        | 0.0150        |               | 0.4927        | 0.4927        |                | 0.4533        | 0.4533        |          | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.8707</b> | <b>8.8698</b> | <b>9.9804</b> | <b>0.0150</b> | <b>1.0395</b> | <b>0.4927</b> | <b>1.5322</b> | <b>0.1574</b>  | <b>0.4533</b> | <b>0.6107</b> |          | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0471        | 1.6185        | 0.6312        | 3.9500e-003        | 0.0825        | 6.5400e-003        | 0.0890        | 0.0226         | 6.2600e-003        | 0.0288        |          | 445.5353        | 445.5353        | 0.0539        |     | 446.8833        |
| 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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318         | 79.2318         | 1.6800e-003   |     | 79.2737         |
| <b>Total</b> | <b>0.0770</b> | <b>1.6368</b> | <b>0.8586</b> | <b>4.7400e-003</b> | <b>0.1646</b> | <b>7.0400e-003</b> | <b>0.1717</b> | <b>0.0444</b>  | <b>6.7300e-003</b> | <b>0.0511</b> |          | <b>524.7671</b> | <b>524.7671</b> | <b>0.0556</b> |     | <b>526.1570</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 |               |               |                |               | 0.4678        | 0.0000        | 0.4678        | 0.0708         | 0.0000        | 0.0708        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.1840        | 0.7975        | 11.3491        | 0.0150        |               | 0.0245        | 0.0245        |                | 0.0245        | 0.0245        | 0.0000        | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.1840</b> | <b>0.7975</b> | <b>11.3491</b> | <b>0.0150</b> | <b>0.4678</b> | <b>0.0245</b> | <b>0.4923</b> | <b>0.0708</b>  | <b>0.0245</b> | <b>0.0954</b> | <b>0.0000</b> | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0471        | 1.6185        | 0.6312        | 3.9500e-003        | 0.0825        | 6.5400e-003        | 0.0890        | 0.0226         | 6.2600e-003        | 0.0288        |          | 445.5353        | 445.5353        | 0.0539        |     | 446.8833        |
| 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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318         | 79.2318         | 1.6800e-003   |     | 79.2737         |
| <b>Total</b> | <b>0.0770</b> | <b>1.6368</b> | <b>0.8586</b> | <b>4.7400e-003</b> | <b>0.1646</b> | <b>7.0400e-003</b> | <b>0.1717</b> | <b>0.0444</b>  | <b>6.7300e-003</b> | <b>0.0511</b> |          | <b>524.7671</b> | <b>524.7671</b> | <b>0.0556</b> |     | <b>526.1570</b> |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.2340        | 0.0000        | 0.2340        | 0.0256         | 0.0000        | 0.0256        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        |          | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.2340</b> | <b>0.3901</b> | <b>0.6241</b> | <b>0.0256</b>  | <b>0.3589</b> | <b>0.3844</b> |          | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0742        | 2.5473        | 0.9935        | 6.2200e-003        | 0.1298        | 0.0103        | 0.1401        | 0.0355         | 9.8500e-003   | 0.0454        |          | 701.2435        | 701.2435        | 0.0849        |     | 703.3651        |
| 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       | 0.0239        | 0.0147        | 0.1819        | 6.4000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 63.3855         | 63.3855         | 1.3400e-003   |     | 63.4190         |
| <b>Total</b> | <b>0.0980</b> | <b>2.5620</b> | <b>1.1754</b> | <b>6.8600e-003</b> | <b>0.1955</b> | <b>0.0107</b> | <b>0.2062</b> | <b>0.0530</b>  | <b>0.0102</b> | <b>0.0632</b> |          | <b>764.6289</b> | <b>764.6289</b> | <b>0.0862</b> |     | <b>766.7841</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 |               |               |                |               | 0.1053        | 0.0000        | 0.1053        | 0.0115         | 0.0000        | 0.0115        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.2185        | 0.9466        | 10.5476        | 0.0176        |               | 0.0291        | 0.0291        |                | 0.0291        | 0.0291        | 0.0000        | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.2185</b> | <b>0.9466</b> | <b>10.5476</b> | <b>0.0176</b> | <b>0.1053</b> | <b>0.0291</b> | <b>0.1344</b> | <b>0.0115</b>  | <b>0.0291</b> | <b>0.0406</b> | <b>0.0000</b> | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0742        | 2.5473        | 0.9935        | 6.2200e-003        | 0.1298        | 0.0103        | 0.1401        | 0.0355         | 9.8500e-003   | 0.0454        |          | 701.2435        | 701.2435        | 0.0849        |     | 703.3651        |
| 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       | 0.0239        | 0.0147        | 0.1819        | 6.4000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 63.3855         | 63.3855         | 1.3400e-003   |     | 63.4190         |
| <b>Total</b> | <b>0.0980</b> | <b>2.5620</b> | <b>1.1754</b> | <b>6.8600e-003</b> | <b>0.1955</b> | <b>0.0107</b> | <b>0.2062</b> | <b>0.0530</b>  | <b>0.0102</b> | <b>0.0632</b> |          | <b>764.6289</b> | <b>764.6289</b> | <b>0.0862</b> |     | <b>766.7841</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.4345        | 0.0000        | 1.4345        | 0.4874         | 0.0000        | 0.4874        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        |          | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>1.4345</b> | <b>0.4370</b> | <b>1.8715</b> | <b>0.4874</b>  | <b>0.4020</b> | <b>0.8894</b> |          | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318        | 79.2318        | 1.6800e-003        |     | 79.2737        |
| <b>Total</b> | <b>0.0298</b> | <b>0.0184</b> | <b>0.2274</b> | <b>7.9000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>79.2318</b> | <b>79.2318</b> | <b>1.6800e-003</b> |     | <b>79.2737</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 |               |               |               |               | 0.6455        | 0.0000        | 0.6455        | 0.2193         | 0.0000        | 0.2193        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.1336        | 0.5788        | 7.9103        | 0.0109        |               | 0.0178        | 0.0178        |                | 0.0178        | 0.0178        | 0.0000        | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.1336</b> | <b>0.5788</b> | <b>7.9103</b> | <b>0.0109</b> | <b>0.6455</b> | <b>0.0178</b> | <b>0.6633</b> | <b>0.2193</b>  | <b>0.0178</b> | <b>0.2371</b> | <b>0.0000</b> | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0298        | 0.0184        | 0.2274        | 7.9000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 79.2318        | 79.2318        | 1.6800e-003        |     | 79.2737        |
| <b>Total</b> | <b>0.0298</b> | <b>0.0184</b> | <b>0.2274</b> | <b>7.9000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>79.2318</b> | <b>79.2318</b> | <b>1.6800e-003</b> |     | <b>79.2737</b> |

## 3.5 Building Construction - 2019

### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        |          | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> |          | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0186        | 0.5025        | 0.1877        | 1.0800e-003        | 0.0270        | 3.4900e-003        | 0.0305        | 7.7700e-003    | 3.3400e-003        | 0.0111        |          | 118.8057        | 118.8057        | 0.0103        |     | 119.0629        |
| Worker       | 0.0627        | 0.0385        | 0.4775        | 1.6700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 166.3868        | 166.3868        | 3.5200e-003   |     | 166.4748        |
| <b>Total</b> | <b>0.0813</b> | <b>0.5410</b> | <b>0.6652</b> | <b>2.7500e-003</b> | <b>0.1995</b> | <b>4.5500e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.3200e-003</b> | <b>0.0578</b> |          | <b>285.1925</b> | <b>285.1925</b> | <b>0.0138</b> |     | <b>285.5377</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     | 0.1128        | 0.4889        | 6.0709        | 9.2100e-003        |               | 0.0150        | 0.0150        |                | 0.0150        | 0.0150        | 0.0000        | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.1128</b> | <b>0.4889</b> | <b>6.0709</b> | <b>9.2100e-003</b> |               | <b>0.0150</b> | <b>0.0150</b> |                | <b>0.0150</b> | <b>0.0150</b> | <b>0.0000</b> | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0186        | 0.5025        | 0.1877        | 1.0800e-003        | 0.0270        | 3.4900e-003        | 0.0305        | 7.7700e-003    | 3.3400e-003        | 0.0111        |          | 118.8057        | 118.8057        | 0.0103        |     | 119.0629        |
| Worker       | 0.0627        | 0.0385        | 0.4775        | 1.6700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 166.3868        | 166.3868        | 3.5200e-003   |     | 166.4748        |
| <b>Total</b> | <b>0.0813</b> | <b>0.5410</b> | <b>0.6652</b> | <b>2.7500e-003</b> | <b>0.1995</b> | <b>4.5500e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.3200e-003</b> | <b>0.0578</b> |          | <b>285.1925</b> | <b>285.1925</b> | <b>0.0138</b> |     | <b>285.5377</b> |

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        |          | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> |          | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0152        | 0.4568        | 0.1771        | 1.0700e-003        | 0.0270        | 2.2900e-003        | 0.0293        | 7.7700e-003    | 2.1900e-003        | 9.9600e-003   |          | 117.7053        | 117.7053        | 0.0101        |     | 117.9565        |
| Worker       | 0.0577        | 0.0342        | 0.4346        | 1.6100e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 161.0950        | 161.0950        | 3.1100e-003   |     | 161.1728        |
| <b>Total</b> | <b>0.0729</b> | <b>0.4911</b> | <b>0.6117</b> | <b>2.6800e-003</b> | <b>0.1995</b> | <b>3.3300e-003</b> | <b>0.2028</b> | <b>0.0535</b>  | <b>3.1500e-003</b> | <b>0.0567</b> |          | <b>278.8003</b> | <b>278.8003</b> | <b>0.0132</b> |     | <b>279.1293</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     | 0.1128        | 0.4889        | 6.0709        | 9.2100e-003        |               | 0.0150        | 0.0150        |                | 0.0150        | 0.0150        | 0.0000        | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.1128</b> | <b>0.4889</b> | <b>6.0709</b> | <b>9.2100e-003</b> |               | <b>0.0150</b> | <b>0.0150</b> |                | <b>0.0150</b> | <b>0.0150</b> | <b>0.0000</b> | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0152        | 0.4568        | 0.1771        | 1.0700e-003        | 0.0270        | 2.2900e-003        | 0.0293        | 7.7700e-003    | 2.1900e-003        | 9.9600e-003   |          | 117.7053        | 117.7053        | 0.0101        |     | 117.9565        |
| Worker       | 0.0577        | 0.0342        | 0.4346        | 1.6100e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 161.0950        | 161.0950        | 3.1100e-003   |     | 161.1728        |
| <b>Total</b> | <b>0.0729</b> | <b>0.4911</b> | <b>0.6117</b> | <b>2.6800e-003</b> | <b>0.1995</b> | <b>3.3300e-003</b> | <b>0.2028</b> | <b>0.0535</b>  | <b>3.1500e-003</b> | <b>0.0567</b> |          | <b>278.8003</b> | <b>278.8003</b> | <b>0.0132</b> |     | <b>279.1293</b> |

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        |          | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> |          | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0495        | 0.0293        | 0.3725        | 1.3800e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 138.0814        | 138.0814        | 2.6700e-003        |     | 138.1481        |
| <b>Total</b> | <b>0.0495</b> | <b>0.0293</b> | <b>0.3725</b> | <b>1.3800e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>138.0814</b> | <b>138.0814</b> | <b>2.6700e-003</b> |     | <b>138.1481</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     | 0.2882        | 1.5896        | 7.8281        | 0.0113        |               | 0.0579        | 0.0579        |                | 0.0579        | 0.0579        | 0.0000        | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.2882</b> | <b>1.5896</b> | <b>7.8281</b> | <b>0.0113</b> |               | <b>0.0579</b> | <b>0.0579</b> |                | <b>0.0579</b> | <b>0.0579</b> | <b>0.0000</b> | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0495        | 0.0293        | 0.3725        | 1.3800e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 138.0814        | 138.0814        | 2.6700e-003        |     | 138.1481        |
| <b>Total</b> | <b>0.0495</b> | <b>0.0293</b> | <b>0.3725</b> | <b>1.3800e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>138.0814</b> | <b>138.0814</b> | <b>2.6700e-003</b> |     | <b>138.1481</b> |

## 3.7 Architectural Coating - 2020

### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        |          | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</b> |



**Unmitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0110        | 6.5200e-003        | 0.0828        | 3.1000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 30.6848        | 30.6848        | 5.9000e-004        |     | 30.6996        |
| <b>Total</b> | <b>0.0110</b> | <b>6.5200e-003</b> | <b>0.0828</b> | <b>3.1000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>30.6848</b> | <b>30.6848</b> | <b>5.9000e-004</b> |     | <b>30.6996</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 | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        | 0.0000        | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx                | CO            | SO2                | Fugitive PM10 | Exhaust PM10       | PM10 Total    | Fugitive PM2.5     | Exhaust PM2.5      | PM2.5 Total        | Bio- CO2 | NBio- CO2      | Total CO2      | CH4                | N2O | CO2e           |
|--------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|----------|----------------|----------------|--------------------|-----|----------------|
| Category     | lb/day        |                    |               |                    |               |                    |               |                    |                    |                    | lb/day   |                |                |                    |     |                |
| Hauling      | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Vendor       | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000        | 0.0000             | 0.0000             | 0.0000             |          | 0.0000         | 0.0000         | 0.0000             |     | 0.0000         |
| Worker       | 0.0110        | 6.5200e-003        | 0.0828        | 3.1000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 30.6848        | 30.6848        | 5.9000e-004        |     | 30.6996        |
| <b>Total</b> | <b>0.0110</b> | <b>6.5200e-003</b> | <b>0.0828</b> | <b>3.1000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>30.6848</b> | <b>30.6848</b> | <b>5.9000e-004</b> |     | <b>30.6996</b> |

619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV) - San Mateo County, Winter

**619–625 CA Drive Development - Project Operations + Mitigated Construction (Tier IV)**  
**San Mateo County, Winter**

**1.0 Project Characteristics****1.1 Land Usage**

| Land Uses                      | Size  | Metric        | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|-------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 12.00 | Space         | 0.11        | 4,800.00           | 0          |
| Other Non-Asphalt Surfaces     | 0.12  | Acre          | 0.12        | 0.00               | 0          |
| Apartments Mid Rise            | 26.00 | Dwelling Unit | 0.17        | 42,174.00          | 74         |
| Regional Shopping Center       | 2.10  | 1000sqft      | 0.05        | 2,100.00           | 0          |

**1.2 Other Project Characteristics**

|                                 |                                |                                 |       |                                  |       |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>             | Urban                          | <b>Wind Speed (m/s)</b>         | 2.2   | <b>Precipitation Freq (Days)</b> | 70    |
| <b>Climate Zone</b>             | 5                              |                                 |       | <b>Operational Year</b>          | 2020  |
| <b>Utility Company</b>          | Pacific Gas & Electric Company |                                 |       |                                  |       |
| <b>CO2 Intensity (lb/MW hr)</b> | 491.65                         | <b>CH4 Intensity (lb/MW hr)</b> | 0.022 | <b>N2O Intensity (lb/MW hr)</b>  | 0.005 |

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

Project Characteristics - 619-625 California Drive Development - Project Operations + Tier IV Mitigated Construction  
 Adjustments made to the intensity factors based on Renewable Portfolio Standard

Land Use - Based on project description and site plan  
 26-unit live-work building with space for commercial occupancy  
 12 at-grade parking and 22 spaces in vehicle lifts

Construction Phase - Applicant-provided construction schedule

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Off-road Equipment - Project-specific information

Demolition - Demolition of existing structures totaling approximately 8,448 square feet

Grading - 4.5 acres to be disturbed

Approximately 1,255 cubic yards of material to be exported

Vehicle Trips - Based on the Transportation Analysis for 619-625 California Drive Live/Work Development in Burlingame, CA prepared by Hexagon Transportation Consultants, Inc.

Woodstoves - No woodburning fireplaces

Construction Off-road Equipment Mitigation - Compliance with BAAQMD best management practices threshold for fugitive dust; recommended measures from BAAQMD's Basic Construction Mitigation Measures Recommended for All Proposed Projects.

Tier IV mitigation for construction equipment >50 HP

| Table Name              | Column Name                  | Default Value | New Value    |
|-------------------------|------------------------------|---------------|--------------|
| tblConstDustMitigation  | WaterUnpavedRoadVehicleSpeed | 0             | 15           |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 4.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 1.00         |
| tblConstEquipMitigation | NumberOfEquipmentMitigated   | 0.00          | 8.00         |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstEquipMitigation | Tier                         | No Change     | Tier 4 Final |
| tblConstructionPhase    | NumDays                      | 10.00         | 8.00         |

|                      |                            |           |           |
|----------------------|----------------------------|-----------|-----------|
| tblConstructionPhase | NumDays                    | 1.00      | 21.00     |
| tblConstructionPhase | NumDays                    | 2.00      | 7.00      |
| tblConstructionPhase | NumDays                    | 100.00    | 320.00    |
| tblConstructionPhase | NumDays                    | 5.00      | 3.00      |
| tblConstructionPhase | NumDays                    | 5.00      | 14.00     |
| tblFireplaces        | FireplaceWoodMass          | 228.80    | 0.00      |
| tblFireplaces        | NumberWood                 | 4.42      | 0.00      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | AcresOfGrading             | 0.00      | 4.50      |
| tblGrading           | MaterialExported           | 0.00      | 1,255.00  |
| tblLandUse           | LandUseSquareFeet          | 5,227.20  | 0.00      |
| tblLandUse           | LandUseSquareFeet          | 26,000.00 | 42,174.00 |
| tblLandUse           | LotAcreage                 | 0.68      | 0.17      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 81.00     | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 187.00    | 0.00      |
| tblOffRoadEquipment  | HorsePower                 | 247.00    | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.73      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.41      | 0.00      |
| tblOffRoadEquipment  | LoadFactor                 | 0.40      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 1.00      | 0.00      |
| tblOffRoadEquipment  | OffRoadEquipmentUnitAmount | 2.00      | 1.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |
| tblOffRoadEquipment  | UsageHours                 | 6.00      | 0.60      |
| tblOffRoadEquipment  | UsageHours                 | 8.00      | 0.00      |

|                           |                    |        |        |
|---------------------------|--------------------|--------|--------|
| tblOffRoadEquipment       | UsageHours         | 1.00   | 0.00   |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029  | 0.022  |
| tblProjectCharacteristics | CO2IntensityFactor | 641.35 | 491.65 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006  | 0.005  |
| tblVehicleTrips           | ST_TR              | 6.39   | 4.62   |
| tblVehicleTrips           | ST_TR              | 49.97  | 31.90  |
| tblVehicleTrips           | SU_TR              | 5.86   | 4.62   |
| tblVehicleTrips           | SU_TR              | 25.24  | 31.90  |
| tblVehicleTrips           | WD_TR              | 6.65   | 4.62   |
| tblVehicleTrips           | WD_TR              | 42.70  | 31.90  |

## 2.0 Emissions Summary

### 2.1 Overall Construction (Maximum Daily Emission)

#### Unmitigated Construction

|         | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |         |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.9521  | 11.3570 | 10.8514 | 0.0244 | 1.5167        | 0.4999       | 1.9542     | 0.5092         | 0.4602        | 0.9117      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |
| 2020    | 44.3728 | 7.5097  | 7.4735  | 0.0126 | 0.1995        | 0.3959       | 0.5875     | 0.0535         | 0.3677        | 0.4106      | 0.0000   | 1,164.9677 | 1,164.9677 | 0.3041 | 0.0000 | 1,172.5710 |
| Maximum | 44.3728 | 11.3570 | 10.8514 | 0.0244 | 1.5167        | 0.4999       | 1.9542     | 0.5092         | 0.4602        | 0.9117      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |

#### Mitigated Construction

|         | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O    | CO2e       |
|---------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Year    | lb/day  |        |         |        |               |              |            |                |               |             | lb/day   |            |            |        |        |            |
| 2019    | 0.3209  | 3.5926 | 12.2201 | 0.0244 | 0.7277        | 0.0401       | 0.7460     | 0.2411         | 0.0396        | 0.2594      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |
| 2020    | 44.3728 | 1.6919 | 8.1888  | 0.0126 | 0.1995        | 0.1111       | 0.2179     | 0.0535         | 0.1111        | 0.1198      | 0.0000   | 1,164.9677 | 1,164.9677 | 0.3041 | 0.0000 | 1,172.5710 |
| Maximum | 44.3728 | 3.5926 | 12.2201 | 0.0244 | 0.7277        | 0.1111       | 0.7460     | 0.2411         | 0.1111        | 0.2594      | 0.0000   | 2,499.3666 | 2,499.3666 | 0.6394 | 0.0000 | 2,515.3506 |

|                   | ROG  | NOx   | CO     | SO2  | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4  | N2O  | CO2e |
|-------------------|------|-------|--------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 1.39 | 71.99 | -11.37 | 0.00 | 45.97         | 83.12        | 62.08      | 47.64          | 81.79         | 71.32       | 0.00     | 0.00     | 0.00      | 0.00 | 0.00 | 0.00 |

### 3.0 Construction Detail

#### Construction Phase

| Phase Number | Phase Name            | Phase Type            | Start Date | End Date  | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1            | Demolition            | Demolition            | 1/1/2019   | 1/10/2019 | 5             | 8        | 8 days            |
| 2            | Site Preparation      | Site Preparation      | 1/11/2019  | 2/8/2019  | 5             | 21       | 21 days           |
| 3            | Grading               | Grading               | 2/9/2019   | 2/19/2019 | 5             | 7        | 7 days            |
| 4            | Building Construction | Building Construction | 2/20/2019  | 5/12/2020 | 5             | 320      | 320 days          |
| 5            | Paving                | Paving                | 5/13/2020  | 5/15/2020 | 5             | 3        | 3 days            |
| 6            | Architectural Coating | Architectural Coating | 5/16/2020  | 6/4/2020  | 5             | 14       | 14 days           |

**Acres of Grading (Site Preparation Phase): 4.5**

**Acres of Grading (Grading Phase): 4.5**

**Acres of Paving: 0.23**

**Residential Indoor: 85,402; Residential Outdoor: 28,467; Non-Residential Indoor: 3,150; Non-Residential Outdoor: 1,050; Striped Parking**

#### OffRoad Equipment

| Phase Name            | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition            | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Excavators                | 2      | 8.00        | 158         | 0.38        |
| Demolition            | Rubber Tired Dozers       | 0      | 0.00        | 0           | 0.00        |
| Demolition            | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Site Preparation      | Bore/Drill Rigs           | 1      | 8.00        | 221         | 0.50        |
| Site Preparation      | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Site Preparation      | Graders                   | 0      | 0.00        | 0           | 0.00        |
| Site Preparation      | Tractors/Loaders/Backhoes | 1      | 8.00        | 97          | 0.37        |
| Grading               | Concrete/Industrial Saws  | 0      | 0.00        | 0           | 0.00        |
| Grading               | Excavators                | 1      | 8.00        | 158         | 0.38        |
| Grading               | Rubber Tired Dozers       | 1      | 1.00        | 247         | 0.40        |
| Grading               | Tractors/Loaders/Backhoes | 2      | 6.00        | 97          | 0.37        |
| Building Construction | Cranes                    | 1      | 4.00        | 231         | 0.29        |
| Building Construction | Forklifts                 | 1      | 0.60        | 89          | 0.20        |

|                       |                           |   |      |     |      |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Tractors/Loaders/Backhoes | 2 | 8.00 | 97  | 0.37 |
| Paving                | Cement and Mortar Mixers  | 4 | 6.00 | 9   | 0.56 |
| Paving                | Pavers                    | 1 | 7.00 | 130 | 0.42 |
| Paving                | Rollers                   | 1 | 7.00 | 80  | 0.38 |
| Paving                | Tractors/Loaders/Backhoes | 1 | 7.00 | 97  | 0.37 |
| Architectural Coating | Air Compressors           | 1 | 6.00 | 78  | 0.48 |

### Trips and VMT

| Phase Name            | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition            | 4                       | 10.00              | 0.00               | 38.00               | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Site Preparation      | 3                       | 8.00               | 0.00               | 157.00              | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Grading               | 4                       | 10.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Building Construction | 4                       | 21.00              | 4.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Paving                | 7                       | 18.00              | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |
| Architectural Coating | 1                       | 4.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

### 3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

### 3.2 Demolition - 2019

#### Unmitigated Construction On-Site

|               | ROG    | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O | CO2e       |
|---------------|--------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-----|------------|
| Category      | lb/day |        |        |        |               |              |            |                |               |             | lb/day   |            |            |        |     |            |
| Fugitive Dust |        |        |        |        | 1.0395        | 0.0000       | 1.0395     | 0.1574         | 0.0000        | 0.1574      |          |            | 0.0000     |        |     | 0.0000     |
| Off-Road      | 0.8707 | 8.8698 | 9.9804 | 0.0150 |               | 0.4927       | 0.4927     |                | 0.4533        | 0.4533      |          | 1,483.5639 | 1,483.5639 | 0.4694 |     | 1,495.2985 |
| Total         | 0.8707 | 8.8698 | 9.9804 | 0.0150 | 1.0395        | 0.4927       | 1.5322     | 0.1574         | 0.4533        | 0.6107      |          | 1,483.5639 | 1,483.5639 | 0.4694 |     | 1,495.2985 |

#### 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      | 0.0483        | 1.6696        | 0.6496        | 3.9100e-003        | 0.0825        | 6.7100e-003        | 0.0892        | 0.0226         | 6.4200e-003        | 0.0290        |          | 440.9086        | 440.9086        | 0.0544        |     | 442.2696        |
| 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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473         | 74.3473         | 1.6100e-003   |     | 74.3875         |
| <b>Total</b> | <b>0.0814</b> | <b>1.6923</b> | <b>0.8709</b> | <b>4.6600e-003</b> | <b>0.1646</b> | <b>7.2100e-003</b> | <b>0.1718</b> | <b>0.0444</b>  | <b>6.8900e-003</b> | <b>0.0512</b> |          | <b>515.2559</b> | <b>515.2559</b> | <b>0.0561</b> |     | <b>516.6570</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 |               |               |                |               | 0.4678        | 0.0000        | 0.4678        | 0.0708         | 0.0000        | 0.0708        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.1840        | 0.7975        | 11.3491        | 0.0150        |               | 0.0245        | 0.0245        |                | 0.0245        | 0.0245        | 0.0000        | 1,483.5639        | 1,483.5639        | 0.4694        |     | 1,495.2985        |
| <b>Total</b>  | <b>0.1840</b> | <b>0.7975</b> | <b>11.3491</b> | <b>0.0150</b> | <b>0.4678</b> | <b>0.0245</b> | <b>0.4923</b> | <b>0.0708</b>  | <b>0.0245</b> | <b>0.0954</b> | <b>0.0000</b> | <b>1,483.5639</b> | <b>1,483.5639</b> | <b>0.4694</b> |     | <b>1,495.2985</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      | 0.0483        | 1.6696        | 0.6496        | 3.9100e-003        | 0.0825        | 6.7100e-003        | 0.0892        | 0.0226         | 6.4200e-003        | 0.0290        |          | 440.9086        | 440.9086        | 0.0544        |     | 442.2696        |
| 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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473         | 74.3473         | 1.6100e-003   |     | 74.3875         |
| <b>Total</b> | <b>0.0814</b> | <b>1.6923</b> | <b>0.8709</b> | <b>4.6600e-003</b> | <b>0.1646</b> | <b>7.2100e-003</b> | <b>0.1718</b> | <b>0.0444</b>  | <b>6.8900e-003</b> | <b>0.0512</b> |          | <b>515.2559</b> | <b>515.2559</b> | <b>0.0561</b> |     | <b>516.6570</b> |

### 3.3 Site Preparation - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 0.2340        | 0.0000        | 0.2340        | 0.0256         | 0.0000        | 0.0256        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7729        | 8.7110        | 7.6328        | 0.0176        |               | 0.3901        | 0.3901        |                | 0.3589        | 0.3589        |          | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.7729</b> | <b>8.7110</b> | <b>7.6328</b> | <b>0.0176</b> | <b>0.2340</b> | <b>0.3901</b> | <b>0.6241</b> | <b>0.0256</b>  | <b>0.3589</b> | <b>0.3844</b> |          | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0759        | 2.6279        | 1.0225        | 6.1600e-003        | 0.1298        | 0.0106        | 0.1404        | 0.0355         | 0.0101        | 0.0456        |          | 693.9614        | 693.9614        | 0.0857        |     | 696.1035        |
| 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       | 0.0265        | 0.0181        | 0.1770        | 6.0000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 59.4778         | 59.4778         | 1.2900e-003   |     | 59.5100         |
| <b>Total</b> | <b>0.1024</b> | <b>2.6460</b> | <b>1.1995</b> | <b>6.7600e-003</b> | <b>0.1955</b> | <b>0.0110</b> | <b>0.2065</b> | <b>0.0530</b>  | <b>0.0105</b> | <b>0.0634</b> |          | <b>753.4393</b> | <b>753.4393</b> | <b>0.0870</b> |     | <b>755.6134</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 |               |               |                |               | 0.1053        | 0.0000        | 0.1053        | 0.0115         | 0.0000        | 0.0115        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.2185        | 0.9466        | 10.5476        | 0.0176        |               | 0.0291        | 0.0291        |                | 0.0291        | 0.0291        | 0.0000        | 1,745.9274        | 1,745.9274        | 0.5524        |     | 1,759.7372        |
| <b>Total</b>  | <b>0.2185</b> | <b>0.9466</b> | <b>10.5476</b> | <b>0.0176</b> | <b>0.1053</b> | <b>0.0291</b> | <b>0.1344</b> | <b>0.0115</b>  | <b>0.0291</b> | <b>0.0406</b> | <b>0.0000</b> | <b>1,745.9274</b> | <b>1,745.9274</b> | <b>0.5524</b> |     | <b>1,759.7372</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      | 0.0759        | 2.6279        | 1.0225        | 6.1600e-003        | 0.1298        | 0.0106        | 0.1404        | 0.0355         | 0.0101        | 0.0456        |          | 693.9614        | 693.9614        | 0.0857        |     | 696.1035        |
| 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       | 0.0265        | 0.0181        | 0.1770        | 6.0000e-004        | 0.0657        | 4.0000e-004   | 0.0661        | 0.0174         | 3.7000e-004   | 0.0178        |          | 59.4778         | 59.4778         | 1.2900e-003   |     | 59.5100         |
| <b>Total</b> | <b>0.1024</b> | <b>2.6460</b> | <b>1.1995</b> | <b>6.7600e-003</b> | <b>0.1955</b> | <b>0.0110</b> | <b>0.2065</b> | <b>0.0530</b>  | <b>0.0105</b> | <b>0.0634</b> |          | <b>753.4393</b> | <b>753.4393</b> | <b>0.0870</b> |     | <b>755.6134</b> |

### 3.4 Grading - 2019

#### Unmitigated Construction On-Site

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category      | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Fugitive Dust |               |               |               |               | 1.4345        | 0.0000        | 1.4345        | 0.4874         | 0.0000        | 0.4874        |          |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.7518        | 7.6972        | 7.2527        | 0.0109        |               | 0.4370        | 0.4370        |                | 0.4020        | 0.4020        |          | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.7518</b> | <b>7.6972</b> | <b>7.2527</b> | <b>0.0109</b> | <b>1.4345</b> | <b>0.4370</b> | <b>1.8715</b> | <b>0.4874</b>  | <b>0.4020</b> | <b>0.8894</b> |          | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473        | 74.3473        | 1.6100e-003        |     | 74.3875        |
| <b>Total</b> | <b>0.0331</b> | <b>0.0227</b> | <b>0.2213</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>74.3473</b> | <b>74.3473</b> | <b>1.6100e-003</b> |     | <b>74.3875</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 |               |               |               |               | 0.6455        | 0.0000        | 0.6455        | 0.2193         | 0.0000        | 0.2193        |               |                   | 0.0000            |               |     | 0.0000            |
| Off-Road      | 0.1336        | 0.5788        | 7.9103        | 0.0109        |               | 0.0178        | 0.0178        |                | 0.0178        | 0.0178        | 0.0000        | 1,078.1169        | 1,078.1169        | 0.3411        |     | 1,086.6445        |
| <b>Total</b>  | <b>0.1336</b> | <b>0.5788</b> | <b>7.9103</b> | <b>0.0109</b> | <b>0.6455</b> | <b>0.0178</b> | <b>0.6633</b> | <b>0.2193</b>  | <b>0.0178</b> | <b>0.2371</b> | <b>0.0000</b> | <b>1,078.1169</b> | <b>1,078.1169</b> | <b>0.3411</b> |     | <b>1,086.6445</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       | 0.0331        | 0.0227        | 0.2213        | 7.5000e-004        | 0.0822        | 5.0000e-004        | 0.0827        | 0.0218         | 4.7000e-004        | 0.0223        |          | 74.3473        | 74.3473        | 1.6100e-003        |     | 74.3875        |
| <b>Total</b> | <b>0.0331</b> | <b>0.0227</b> | <b>0.2213</b> | <b>7.5000e-004</b> | <b>0.0822</b> | <b>5.0000e-004</b> | <b>0.0827</b> | <b>0.0218</b>  | <b>4.7000e-004</b> | <b>0.0223</b> |          | <b>74.3473</b> | <b>74.3473</b> | <b>1.6100e-003</b> |     | <b>74.3875</b> |

**3.5 Building Construction - 2019****Unmitigated Construction On-Site**

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.7296        | 7.7854        | 5.8414        | 9.2100e-003        |               | 0.4477        | 0.4477        |                | 0.4119        | 0.4119        |          | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.7296</b> | <b>7.7854</b> | <b>5.8414</b> | <b>9.2100e-003</b> |               | <b>0.4477</b> | <b>0.4477</b> |                | <b>0.4119</b> | <b>0.4119</b> |          | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0195        | 0.5113        | 0.2053        | 1.0700e-003        | 0.0270        | 3.5700e-003        | 0.0306        | 7.7700e-003    | 3.4200e-003        | 0.0112        |          | 116.7686        | 116.7686        | 0.0106        |     | 117.0328        |
| Worker       | 0.0696        | 0.0476        | 0.4647        | 1.5700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 156.1293        | 156.1293        | 3.3800e-003   |     | 156.2137        |
| <b>Total</b> | <b>0.0891</b> | <b>0.5589</b> | <b>0.6700</b> | <b>2.6400e-003</b> | <b>0.1995</b> | <b>4.6300e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.4000e-003</b> | <b>0.0579</b> |          | <b>272.8979</b> | <b>272.8979</b> | <b>0.0140</b> |     | <b>273.2465</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     | 0.1128        | 0.4889        | 6.0709        | 9.2100e-003        |               | 0.0150        | 0.0150        |                | 0.0150        | 0.0150        | 0.0000        | 912.0380        | 912.0380        | 0.2886        |     | 919.2520        |
| <b>Total</b> | <b>0.1128</b> | <b>0.4889</b> | <b>6.0709</b> | <b>9.2100e-003</b> |               | <b>0.0150</b> | <b>0.0150</b> |                | <b>0.0150</b> | <b>0.0150</b> | <b>0.0000</b> | <b>912.0380</b> | <b>912.0380</b> | <b>0.2886</b> |     | <b>919.2520</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       | 0.0195        | 0.5113        | 0.2053        | 1.0700e-003        | 0.0270        | 3.5700e-003        | 0.0306        | 7.7700e-003    | 3.4200e-003        | 0.0112        |          | 116.7686        | 116.7686        | 0.0106        |     | 117.0328        |
| Worker       | 0.0696        | 0.0476        | 0.4647        | 1.5700e-003        | 0.1725        | 1.0600e-003        | 0.1736        | 0.0458         | 9.8000e-004        | 0.0467        |          | 156.1293        | 156.1293        | 3.3800e-003   |     | 156.2137        |
| <b>Total</b> | <b>0.0891</b> | <b>0.5589</b> | <b>0.6700</b> | <b>2.6400e-003</b> | <b>0.1995</b> | <b>4.6300e-003</b> | <b>0.2041</b> | <b>0.0535</b>  | <b>4.4000e-003</b> | <b>0.0579</b> |          | <b>272.8979</b> | <b>272.8979</b> | <b>0.0140</b> |     | <b>273.2465</b> |

### 3.5 Building Construction - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category     | lb/day        |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Off-Road     | 0.6565        | 7.0034        | 5.7056        | 9.2100e-003        |               | 0.3846        | 0.3846        |                | 0.3539        | 0.3539        |          | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.6565</b> | <b>7.0034</b> | <b>5.7056</b> | <b>9.2100e-003</b> |               | <b>0.3846</b> | <b>0.3846</b> |                | <b>0.3539</b> | <b>0.3539</b> |          | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0159        | 0.4641        | 0.1928        | 1.0500e-003        | 0.0270        | 2.3400e-003        | 0.0293        | 7.7700e-003    | 2.2400e-003        | 0.0100        |          | 115.6521        | 115.6521        | 0.0103        |     | 115.9090        |
| Worker       | 0.0642        | 0.0422        | 0.4208        | 1.5200e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 151.1710        | 151.1710        | 2.9700e-003   |     | 151.2452        |
| <b>Total</b> | <b>0.0801</b> | <b>0.5063</b> | <b>0.6136</b> | <b>2.5700e-003</b> | <b>0.1995</b> | <b>3.3800e-003</b> | <b>0.2029</b> | <b>0.0535</b>  | <b>3.2000e-003</b> | <b>0.0567</b> |          | <b>266.8230</b> | <b>266.8230</b> | <b>0.0133</b> |     | <b>267.1543</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     | 0.1128        | 0.4889        | 6.0709        | 9.2100e-003        |               | 0.0150        | 0.0150        |                | 0.0150        | 0.0150        | 0.0000        | 892.0341        | 892.0341        | 0.2885        |     | 899.2467        |
| <b>Total</b> | <b>0.1128</b> | <b>0.4889</b> | <b>6.0709</b> | <b>9.2100e-003</b> |               | <b>0.0150</b> | <b>0.0150</b> |                | <b>0.0150</b> | <b>0.0150</b> | <b>0.0000</b> | <b>892.0341</b> | <b>892.0341</b> | <b>0.2885</b> |     | <b>899.2467</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       | 0.0159        | 0.4641        | 0.1928        | 1.0500e-003        | 0.0270        | 2.3400e-003        | 0.0293        | 7.7700e-003    | 2.2400e-003        | 0.0100        |          | 115.6521        | 115.6521        | 0.0103        |     | 115.9090        |
| Worker       | 0.0642        | 0.0422        | 0.4208        | 1.5200e-003        | 0.1725        | 1.0400e-003        | 0.1736        | 0.0458         | 9.6000e-004        | 0.0467        |          | 151.1710        | 151.1710        | 2.9700e-003   |     | 151.2452        |
| <b>Total</b> | <b>0.0801</b> | <b>0.5063</b> | <b>0.6136</b> | <b>2.5700e-003</b> | <b>0.1995</b> | <b>3.3800e-003</b> | <b>0.2029</b> | <b>0.0535</b>  | <b>3.2000e-003</b> | <b>0.0567</b> |          | <b>266.8230</b> | <b>266.8230</b> | <b>0.0133</b> |     | <b>267.1543</b> |

### 3.6 Paving - 2020

#### Unmitigated Construction On-Site

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2         | Total CO2         | CH4           | N2O | CO2e              |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category     | lb/day        |               |               |               |               |               |               |                |               |               | lb/day   |                   |                   |               |     |                   |
| Off-Road     | 0.7716        | 7.2266        | 7.1128        | 0.0113        |               | 0.3950        | 0.3950        |                | 0.3669        | 0.3669        |          | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.7716</b> | <b>7.2266</b> | <b>7.1128</b> | <b>0.0113</b> |               | <b>0.3950</b> | <b>0.3950</b> |                | <b>0.3669</b> | <b>0.3669</b> |          | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0550        | 0.0362        | 0.3607        | 1.3000e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 129.5751        | 129.5751        | 2.5500e-003        |     | 129.6388        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0362</b> | <b>0.3607</b> | <b>1.3000e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>129.5751</b> | <b>129.5751</b> | <b>2.5500e-003</b> |     | <b>129.6388</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     | 0.2882        | 1.5896        | 7.8281        | 0.0113        |               | 0.0579        | 0.0579        |                | 0.0579        | 0.0579        | 0.0000        | 1,035.3926        | 1,035.3926        | 0.3016        |     | 1,042.9323        |
| Paving       | 0.0000        |               |               |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                   | 0.0000            |               |     | 0.0000            |
| <b>Total</b> | <b>0.2882</b> | <b>1.5896</b> | <b>7.8281</b> | <b>0.0113</b> |               | <b>0.0579</b> | <b>0.0579</b> |                | <b>0.0579</b> | <b>0.0579</b> | <b>0.0000</b> | <b>1,035.3926</b> | <b>1,035.3926</b> | <b>0.3016</b> |     | <b>1,042.9323</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       | 0.0550        | 0.0362        | 0.3607        | 1.3000e-003        | 0.1479        | 8.9000e-004        | 0.1488        | 0.0392         | 8.2000e-004        | 0.0400        |          | 129.5751        | 129.5751        | 2.5500e-003        |     | 129.6388        |
| <b>Total</b> | <b>0.0550</b> | <b>0.0362</b> | <b>0.3607</b> | <b>1.3000e-003</b> | <b>0.1479</b> | <b>8.9000e-004</b> | <b>0.1488</b> | <b>0.0392</b>  | <b>8.2000e-004</b> | <b>0.0400</b> |          | <b>129.5751</b> | <b>129.5751</b> | <b>2.5500e-003</b> |     | <b>129.6388</b> |

## 3.7 Architectural Coating - 2020

### Unmitigated Construction On-Site

|                 | ROG            | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2 | NBio- CO2       | Total CO2       | CH4           | N2O | CO2e            |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category        | lb/day         |               |               |                    |               |               |               |                |               |               | lb/day   |                 |                 |               |     |                 |
| Archit. Coating | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |          |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        |          | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> |          | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</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       | 0.0122        | 8.0400e-003        | 0.0802        | 2.9000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 28.7945        | 28.7945        | 5.7000e-004        |     | 28.8086        |
| <b>Total</b> | <b>0.0122</b> | <b>8.0400e-003</b> | <b>0.0802</b> | <b>2.9000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>28.7945</b> | <b>28.7945</b> | <b>5.7000e-004</b> |     | <b>28.8086</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 | 44.1184        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        |               |                 | 0.0000          |               |     | 0.0000          |
| Off-Road        | 0.2422         | 1.6838        | 1.8314        | 2.9700e-003        |               | 0.1109        | 0.1109        |                | 0.1109        | 0.1109        | 0.0000        | 281.4481        | 281.4481        | 0.0218        |     | 281.9928        |
| <b>Total</b>    | <b>44.3606</b> | <b>1.6838</b> | <b>1.8314</b> | <b>2.9700e-003</b> |               | <b>0.1109</b> | <b>0.1109</b> |                | <b>0.1109</b> | <b>0.1109</b> | <b>0.0000</b> | <b>281.4481</b> | <b>281.4481</b> | <b>0.0218</b> |     | <b>281.9928</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       | 0.0122        | 8.0400e-003        | 0.0802        | 2.9000e-004        | 0.0329        | 2.0000e-004        | 0.0331        | 8.7200e-003        | 1.8000e-004        | 8.9000e-003        |          | 28.7945        | 28.7945        | 5.7000e-004        |     | 28.8086        |
| <b>Total</b> | <b>0.0122</b> | <b>8.0400e-003</b> | <b>0.0802</b> | <b>2.9000e-004</b> | <b>0.0329</b> | <b>2.0000e-004</b> | <b>0.0331</b> | <b>8.7200e-003</b> | <b>1.8000e-004</b> | <b>8.9000e-003</b> |          | <b>28.7945</b> | <b>28.7945</b> | <b>5.7000e-004</b> |     | <b>28.8086</b> |

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