
APPENDIX C

CALIFORNIA EMISSIONS ESTIMATOR MODEL RESULTS

River View at Las Palmas Assisted Living Senior Facility - Monterey Bay Unified APCD Air District, Annual

**River View at Las Palmas Assisted Living Senior Facility
Monterey Bay Unified APCD Air District, Annual**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 69.12 | 1000sqft | 1.59 | 69,120.00 | 0 |
| Parking Lot | 76.00 | Space | 0.68 | 30,400.00 | 0 |
| Retirement Community | 105.00 | Dwelling Unit | 2.07 | 147,355.00 | 147 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.8 | Precipitation Freq (Days) | 53 |
| Climate Zone | 4 | Operational Year | | 2020 | |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 641.35 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage (building coverage) and Bldg gross SF from project plans. Population based on 147 beds max from client.

Construction Off-road Equipment Mitigation - Per Air District guidelines

Area Mitigation - Per Air District guidelines

Energy Mitigation -

Water Mitigation -

Grading - Fill material to be imported and used onsite per project plan

| Table Name | Column Name | Default Value | New Value |
|---------------------------|------------------------------|---------------|------------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblGrading | MaterialImported | 0.00 | 34,500.00 |
| tblLandUse | BuildingSpaceSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LandUseSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LotAcreage | 21.00 | 2.07 |
| tblLandUse | Population | 300.00 | 147.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2020 |
| tblTripsAndVMT | HaulingTripNumber | 4,313.00 | 4,312.00 |

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|----------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2018 | 0.4725 | 4.4871 | 3.1703 | 7.4400e-003 | 0.2371 | 0.2088 | 0.4459 | 0.0829 | 0.1960 | 0.2788 | 0.0000 | 680.0583 | 680.0583 | 0.0985 | 0.0000 | 682.5214 |
| 2019 | 0.9722 | 0.2221 | 0.2230 | 3.9000e-004 | 6.9800e-003 | 0.0123 | 0.0193 | 1.8700e-003 | 0.0115 | 0.0134 | 0.0000 | 34.3330 | 34.3330 | 7.2700e-003 | 0.0000 | 34.5147 |
| Maximum | 0.9722 | 4.4871 | 3.1703 | 7.4400e-003 | 0.2371 | 0.2088 | 0.4459 | 0.0829 | 0.1960 | 0.2788 | 0.0000 | 680.0583 | 680.0583 | 0.0985 | 0.0000 | 682.5214 |

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 | 0.7095 | 0.0126 | 1.0883 | 6.0000e-005 | | 5.9800e-003 | 5.9800e-003 | | 5.9800e-003 | 5.9800e-003 | 0.0000 | 1.7724 | 1.7724 | 1.7300e-003 | 0.0000 |
| Energy | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 230.5805 | 230.5805 | 8.4800e-003 | 2.8300e-003 | 231.6351 |
| Mobile | 0.1127 | 0.5845 | 1.3500 | 3.5800e-003 | 0.2596 | 4.4100e-003 | 0.2641 | 0.0698 | 4.1500e-003 | 0.0739 | 0.0000 | 328.5383 | 328.5383 | 0.0183 | 0.0000 | 328.9964 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 9.8045 | 0.0000 | 9.8045 | 0.5794 | 0.0000 | 24.2901 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 2.1704 | 15.1602 | 17.3306 | 0.2236 | 5.4100e-003 | 24.5316 |
| Total | 0.8297 | 0.6616 | 2.4657 | 4.0500e-003 | 0.2596 | 0.0156 | 0.2752 | 0.0698 | 0.0153 | 0.0851 | 11.9749 | 576.0514 | 588.0263 | 0.8316 | 8.2400e-003 | 611.2690 |

4.0 Operational Detail - Mobile

4.1 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 | | | | | |
| Unmitigated | 0.1127 | 0.5845 | 1.3500 | 3.5800e-003 | 0.2596 | 4.4100e-003 | 0.2641 | 0.0698 | 4.1500e-003 | 0.0739 | 0.0000 | 328.5383 | 328.5383 | 0.0183 | 0.0000 | 328.9964 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Retirement Community | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |
| Total | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |

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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Retirement Community | 10.80 | 7.30 | 7.50 | 44.00 | 18.80 | 37.20 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Parking Lot | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Retirement Community | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|-------------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 152.6161 | 152.6161 | 6.9000e-003 | 1.4300e-003 | 153.2141 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 155.9499 | 155.9499 | 7.0500e-003 | 1.4600e-003 | 156.5610 |
| NaturalGas Mitigated | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |
| NaturalGas Unmitigated | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|-----------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 1.39853e+006 | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |
| Total | | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |

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 | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 1.39853e+006 | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |
| Total | | 7.5400e-003 | 0.0644 | 0.0274 | 4.1000e-004 | | 5.2100e-003 | 5.2100e-003 | | 5.2100e-003 | 5.2100e-003 | 0.0000 | 74.6306 | 74.6306 | 1.4300e-003 | 1.3700e-003 | 75.0741 |

5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|-----------------|-----------|--------|--------|--------|
| Land Use | kWh/yr | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | | | | | |
|----------------------|--------|-----------------|--------------------|--------------------|-----------------|
| Parking Lot | 26752 | 7.7825 | 3.5000e-004 | 7.0000e-005 | 7.8130 |
| Retirement Community | 509321 | 148.1674 | 6.7000e-003 | 1.3900e-003 | 148.7480 |
| Total | | 155.9499 | 7.0500e-003 | 1.4600e-003 | 156.5610 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 26752 | 7.7825 | 3.5000e-004 | 7.0000e-005 | 7.8130 |
| Retirement Community | 497862 | 144.8337 | 6.5500e-003 | 1.3500e-003 | 145.4012 |
| Total | | 152.6161 | 6.9000e-003 | 1.4200e-003 | 153.2141 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 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 | 0.7095 | 0.0126 | 1.0883 | 6.0000e-005 | | 5.9800e-003 | 5.9800e-003 | | 5.9800e-003 | 5.9800e-003 | 0.0000 | 1.7724 | 1.7724 | 1.7300e-003 | 0.0000 | 1.8157 |
| Unmitigated | 0.7095 | 0.0126 | 1.0883 | 6.0000e-005 | | 5.9800e-003 | 5.9800e-003 | | 5.9800e-003 | 5.9800e-003 | 0.0000 | 1.7724 | 1.7724 | 1.7300e-003 | 0.0000 | 1.8157 |

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 | 0.0943 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5819 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.0333 | 0.0126 | 1.0883 | 6.0000e-005 | | 5.9800e-003 | 5.9800e-003 | | 5.9800e-003 | 5.9800e-003 | 0.0000 | 1.7724 | 1.7724 | 1.7300e-003 | 0.0000 | 1.8157 |
| Total | 0.7095 | 0.0126 | 1.0883 | 6.0000e-005 | | 5.9800e-003 | 5.9800e-003 | | 5.9800e-003 | 5.9800e-003 | 0.0000 | 1.7724 | 1.7724 | 1.7300e-003 | 0.0000 | 1.8157 |

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 14.7428 | 0.1789 | 4.3300e-003 | 20.5070 |
| Unmitigated | 17.3306 | 0.2236 | 5.4100e-003 | 24.5316 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------------------|-----------|--------|--------|--------|
| Land Use | Mgal | MT/yr | | | |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |

| | | | | | |
|-------------------------|----------------------|----------------|---------------|-------------------------|----------------|
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 6.84117 / 4.31291 | 17.3306 | 0.2236 | 5.4100e- 003 | 24.5316 |
| Total | | 17.3306 | 0.2236 | 5.4100e- 003 | 24.5316 |

Mitigated

| | Indoor/Out door Use | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|------------------------|----------------|---------------|-------------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 5.47294 / 4.31291 | 14.7428 | 0.1789 | 4.3300e- 003 | 20.5070 |
| Total | | 14.7428 | 0.1789 | 4.3300e- 003 | 20.5070 |

River View at Las Palmas Assisted Living Senior Facility - Monterey Bay Unified APCD Air District, Summer

**River View at Las Palmas Assisted Living Senior Facility
Monterey Bay Unified APCD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 69.12 | 1000sqft | 1.59 | 69,120.00 | 0 |
| Parking Lot | 76.00 | Space | 0.68 | 30,400.00 | 0 |
| Retirement Community | 105.00 | Dwelling Unit | 2.07 | 147,355.00 | 147 |

1.2 Other Project Characteristics

| | | | | | |
|--------------------------------|--------------------------------|--------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.8 | Precipitation Freq (Days) | 53 |
| Climate Zone | 4 | | | Operational Year | 2020 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MWhr) | 641.35 | CH4 Intensity (lb/MWhr) | 0.029 | N2O Intensity (lb/MWhr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage (building coverage) and Bldg gross SF from project plans. Population based on 147 beds max from client.

Construction Off-road Equipment Mitigation - Per Air District guidelines

Area Mitigation - Per Air District guidelines

Energy Mitigation -

Water Mitigation -

Grading - Fill material to be imported and used onsite per project plan

| Table Name | Column Name | Default Value | New Value |
|------------|-------------|---------------|-----------|
|------------|-------------|---------------|-----------|

| | | | |
|---------------------------|------------------------------|------------|------------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblGrading | MaterialImported | 0.00 | 34,500.00 |
| tblLandUse | BuildingSpaceSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LandUseSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LotAcreage | 21.00 | 2.07 |
| tblLandUse | Population | 300.00 | 147.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2020 |
| tblTripsAndVMT | HaulingTripNumber | 4,313.00 | 4,312.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 8.4811 | 209.7820 | 48.5526 | 0.4789 | 18.2141 | 2.6300 | 20.7924 | 9.9699 | 2.4592 | 12.3419 | 0.0000 | 50,365.5705 | 50,365.5705 | 2.8530 | 0.0000 | 50,436.8946 |
| 2019 | 105.1320 | 25.3241 | 23.0188 | 0.0456 | 1.1507 | 1.3285 | 2.4792 | 0.3095 | 1.2494 | 1.5589 | 0.0000 | 4,489.9714 | 4,489.9714 | 0.7262 | 0.0000 | 4,508.1258 |
| Maximum | 105.1320 | 209.7820 | 48.5526 | 0.4789 | 18.2141 | 2.6300 | 20.7924 | 9.9699 | 2.4592 | 12.3419 | 0.0000 | 50,365.5705 | 50,365.5705 | 2.8530 | 0.0000 | 50,436.8946 |

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 | | | | | |

| | | | | | | | | | | | | | | | | |
|---------|----------|----------|---------|--------|---------|--------|---------|--------|--------|--------|--------|-------------|-------------|--------|--------|-------------|
| 2018 | 8.4811 | 209.7820 | 48.5526 | 0.4789 | 12.7908 | 2.6300 | 15.4208 | 4.5080 | 2.4592 | 6.8800 | 0.0000 | 50,365.5705 | 50,365.5705 | 2.8530 | 0.0000 | 50,436.8946 |
| 2019 | 105.1320 | 25.3241 | 23.0188 | 0.0456 | 1.1507 | 1.3285 | 2.4792 | 0.3095 | 1.2494 | 1.5589 | 0.0000 | 4,489.9714 | 4,489.9714 | 0.7262 | 0.0000 | 4,508.1258 |
| Maximum | 105.1320 | 209.7820 | 48.5526 | 0.4789 | 12.7908 | 2.6300 | 15.4208 | 4.5080 | 2.4592 | 6.8800 | 0.0000 | 50,365.5705 | 50,365.5705 | 2.8530 | 0.0000 | 50,436.8946 |

| | ROG | NOx | CO | SO2 | 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 | 28.01 | 0.00 | 23.08 | 53.13 | 0.00 | 39.29 | 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 | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |
| Energy | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Mobile | 0.6946 | 3.2431 | 7.8935 | 0.0216 | 1.5476 | 0.0254 | 1.5730 | 0.4147 | 0.0239 | 0.4386 | | 2,186.6652 | 2,186.6652 | 0.1171 | | 2,189.5932 |
| Total | 4.7072 | 3.6969 | 16.7501 | 0.0244 | 1.5476 | 0.1018 | 1.6494 | 0.4147 | 0.1003 | 0.5149 | 0.0000 | 2,653.0686 | 2,653.0686 | 0.1411 | 8.2600e-003 | 2,659.0578 |

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 | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Energy | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Mobile | 0.6946 | 3.2431 | 7.8935 | 0.0216 | 1.5476 | 0.0254 | 1.5730 | 0.4147 | 0.0239 | 0.4386 | | 2,186.6652 | 2,186.6652 | 0.1171 | | 2,189.5932 |
| Total | 4.7072 | 3.6969 | 16.7501 | 0.0244 | 1.5476 | 0.1018 | 1.6494 | 0.4147 | 0.1003 | 0.5149 | 0.0000 | 2,653.0686 | 2,653.0686 | 0.1411 | 8.2600e-003 | 2,659.0578 |

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/8/2018 | 2/2/2018 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/3/2018 | 2/9/2018 | 5 | 5 | |
| 3 | Grading | Grading | 2/10/2018 | 2/21/2018 | 5 | 8 | |
| 4 | Building Construction | Building Construction | 2/22/2018 | 1/9/2019 | 5 | 230 | |
| 5 | Paving | Paving | 1/10/2019 | 2/4/2019 | 5 | 18 | |
| 6 | Architectural Coating | Architectural Coating | 2/5/2019 | 2/28/2019 | 5 | 18 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.27

Residential Indoor: 298,394; Residential Outdoor: 99,465; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 23.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 117.00 | 28.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 4,312.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

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

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 | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |
| Total | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |

Mitigated Construction On-Site

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

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 | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |
| Total | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|----------------|--|-------------------|-------------------|---------------|--|-------------------|
| Off-Road | 4.5627 | 48.1988 | 22.4763 | 0.0380 | | 2.5769 | 2.5769 | | 2.3708 | 2.3708 | | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |
| Total | 4.5627 | 48.1988 | 22.4763 | 0.0380 | 18.0663 | 2.5769 | 20.6432 | 9.9307 | 2.3708 | 12.3014 | | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |

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 | 0.0965 | 0.0806 | 0.8500 | 1.6600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 164.7301 | 164.7301 | 8.3700e-003 | | 164.9393 |
| Total | 0.0965 | 0.0806 | 0.8500 | 1.6600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 164.7301 | 164.7301 | 8.3700e-003 | | 164.9393 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.5627 | 48.1988 | 22.4763 | 0.0380 | | 2.5769 | 2.5769 | | 2.3708 | 2.3708 | 0.0000 | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |
| Total | 4.5627 | 48.1988 | 22.4763 | 0.0380 | 8.1298 | 2.5769 | 10.7067 | 4.4688 | 2.3708 | 6.8396 | 0.0000 | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |

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 | 0.0965 | 0.0806 | 0.8500 | 1.6600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 164.7301 | 164.7301 | 8.3700e-003 | | 164.9393 |
| Total | 0.0965 | 0.0806 | 0.8500 | 1.6600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 164.7301 | 164.7301 | 8.3700e-003 | | 164.9393 |

3.4 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.2196 | 0.0000 | 7.2196 | 3.4685 | 0.0000 | 3.4685 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.7733 | 30.6725 | 16.5770 | 0.0297 | | 1.5513 | 1.5513 | | 1.4272 | 1.4272 | | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |
| Total | 2.7733 | 30.6725 | 16.5770 | 0.0297 | 7.2196 | 1.5513 | 8.7709 | 3.4685 | 1.4272 | 4.8957 | | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |

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 | 5.6275 | 179.0423 | 31.2673 | 0.4479 | 9.4187 | 1.0776 | 10.4964 | 2.5812 | 1.0310 | 3.6122 | | 47,240.2739 | 47,240.2739 | 1.9158 | | 47,288.1683 |
| 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 | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |
| Total | 5.7079 | 179.1095 | 31.9756 | 0.4492 | 9.5420 | 1.0787 | 10.6207 | 2.6139 | 1.0320 | 3.6459 | | 47,377.5489 | 47,377.5489 | 1.9228 | | 47,425.6177 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.2488 | 0.0000 | 3.2488 | 1.5608 | 0.0000 | 1.5608 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.7733 | 30.6725 | 16.5770 | 0.0297 | | 1.5513 | 1.5513 | | 1.4272 | 1.4272 | 0.0000 | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |
| Total | 2.7733 | 30.6725 | 16.5770 | 0.0297 | 3.2488 | 1.5513 | 4.8002 | 1.5608 | 1.4272 | 2.9881 | 0.0000 | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |

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 | 5.6275 | 179.0423 | 31.2673 | 0.4479 | 9.4187 | 1.0776 | 10.4964 | 2.5812 | 1.0310 | 3.6122 | | 47,240.2739 | 47,240.2739 | 1.9158 | | 47,288.1683 |
| 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 | 0.0804 | 0.0672 | 0.7084 | 1.3800e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 137.2751 | 137.2751 | 6.9700e-003 | | 137.4494 |
| Total | 5.7079 | 179.1095 | 31.9756 | 0.4492 | 9.5420 | 1.0787 | 10.6207 | 2.6139 | 1.0320 | 3.6459 | | 47,377.5489 | 47,377.5489 | 1.9228 | | 47,425.6177 |

3.5 Building Construction - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

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 | 0.1770 | 4.0123 | 1.0954 | 8.2100e-003 | 0.1896 | 0.0375 | 0.2270 | 0.0546 | 0.0359 | 0.0904 | | 861.6025 | 861.6025 | 0.0493 | | 862.8354 |
| Worker | 0.6270 | 0.5241 | 5.5253 | 0.0108 | 0.9611 | 8.6400e-003 | 0.9698 | 0.2549 | 7.9800e-003 | 0.2629 | | 1,070.7455 | 1,070.7455 | 0.0544 | | 1,072.1054 |
| Total | 0.8040 | 4.5364 | 6.6207 | 0.0190 | 1.1507 | 0.0461 | 1.1968 | 0.3095 | 0.0438 | 0.3533 | | 1,932.3480 | 1,932.3480 | 0.1037 | | 1,934.9408 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

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 | 0.1770 | 4.0123 | 1.0954 | 8.2100e-003 | 0.1896 | 0.0375 | 0.2270 | 0.0546 | 0.0359 | 0.0904 | | 861.6025 | 861.6025 | 0.0493 | | 862.8354 |
| Worker | 0.6270 | 0.5241 | 5.5253 | 0.0108 | 0.9611 | 8.6400e-003 | 0.9698 | 0.2549 | 7.9800e-003 | 0.2629 | | 1,070.7455 | 1,070.7455 | 0.0544 | | 1,072.1054 |
| Total | 0.8040 | 4.5364 | 6.6207 | 0.0190 | 1.1507 | 0.0461 | 1.1968 | 0.3095 | 0.0438 | 0.3533 | | 1,932.3480 | 1,932.3480 | 0.1037 | | 1,934.9408 |

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 | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Total | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|

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 | 0.1538 | 3.7853 | 0.9653 | 8.1800e-003 | 0.1896 | 0.0303 | 0.2199 | 0.0546 | 0.0290 | 0.0836 | | 857.9888 | 857.9888 | 0.0470 | | 859.1636 |
| Worker | 0.5627 | 0.4600 | 4.8897 | 0.0105 | 0.9611 | 8.3000e-003 | 0.9694 | 0.2549 | 7.6600e-003 | 0.2626 | | 1,040.4024 | 1,040.4024 | 0.0479 | | 1,041.5988 |
| Total | 0.7164 | 4.2453 | 5.8550 | 0.0187 | 1.1507 | 0.0386 | 1.1893 | 0.3095 | 0.0367 | 0.3462 | | 1,898.3912 | 1,898.3912 | 0.0948 | | 1,900.7624 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| Total | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |

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 | 0.1538 | 3.7853 | 0.9653 | 8.1800e-003 | 0.1896 | 0.0303 | 0.2199 | 0.0546 | 0.0290 | 0.0836 | | 857.9888 | 857.9888 | 0.0470 | | 859.1636 |
| Worker | 0.5627 | 0.4600 | 4.8897 | 0.0105 | 0.9611 | 8.3000e-003 | 0.9694 | 0.2549 | 7.6600e-003 | 0.2626 | | 1,040.4024 | 1,040.4024 | 0.0479 | | 1,041.5988 |
| Total | 0.7164 | 4.2453 | 5.8550 | 0.0187 | 1.1507 | 0.0386 | 1.1893 | 0.3095 | 0.0367 | 0.3462 | | 1,898.3912 | 1,898.3912 | 0.0948 | | 1,900.7624 |

3.6 Paving - 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 | 1.2679 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |
| Paving | 0.3304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5983 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |

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 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0962 | 0.0786 | 0.8358 | 1.7900e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 177.8466 | 177.8466 | 8.1800e-003 | | 178.0511 |
| Total | 0.0962 | 0.0786 | 0.8358 | 1.7900e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 177.8466 | 177.8466 | 8.1800e-003 | | 178.0511 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.2679 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | 0.0000 | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |
| Paving | 0.3304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5983 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | 0.0000 | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |

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 | 0.0962 | 0.0786 | 0.8358 | 1.7900e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 177.8466 | 177.8466 | 8.1800e-003 | | 178.0511 |
| Total | 0.0962 | 0.0786 | 0.8358 | 1.7900e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 177.8466 | 177.8466 | 8.1800e-003 | | 178.0511 |

3.7 Architectural Coating - 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 | | | | | |
| Archit. Coating | 104.7550 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| Total | 105.0214 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |

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 | 0.1106 | 0.0904 | 0.9612 | 2.0600e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 204.5236 | 204.5236 | 9.4100e-003 | | 204.7587 |
| Total | 0.1106 | 0.0904 | 0.9612 | 2.0600e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 204.5236 | 204.5236 | 9.4100e-003 | | 204.7587 |

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 | 104.7550 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| Total | 105.0214 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |

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 | 0.1106 | 0.0904 | 0.9612 | 2.0600e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 204.5236 | 204.5236 | 9.4100e-003 | | 204.7587 |
| Total | 0.1106 | 0.0904 | 0.9612 | 2.0600e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 204.5236 | 204.5236 | 9.4100e-003 | | 204.7587 |

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 | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|------------|--------|-----------|
| | 0.6946 | 3.2431 | 7.8935 | 0.0216 | 1.5476 | 0.0254 | 1.5730 | 0.4147 | 0.0239 | 0.4386 | 2,186.665 | 2,186.6652 | 0.1171 | 2,189.593 |
| Mitigated | 0.6946 | 3.2431 | 7.8935 | 0.0216 | 1.5476 | 0.0254 | 1.5730 | 0.4147 | 0.0239 | 0.4386 | 2 | 2,186.6652 | 0.1171 | 2,189.593 |
| Unmitigated | 0.6946 | 3.2431 | 7.8935 | 0.0216 | 1.5476 | 0.0254 | 1.5730 | 0.4147 | 0.0239 | 0.4386 | 2 | 2,186.6652 | 0.1171 | 2,189.593 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Retirement Community | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |
| Total | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |

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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Retirement Community | 10.80 | 7.30 | 7.50 | 44.00 | 18.80 | 37.20 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Parking Lot | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Retirement Community | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| NaturalGas Unmitigated | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

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 | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 3831.58 | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Total | | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

Mitigated

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

| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
|------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--------|-----------------|-----------------|--------------------|--------------------|-----------------|
| | | | | | | | | | | | | | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 3.83158 | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Total | | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |
| Unmitigated | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

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 | 0.5166 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.1887 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.2661 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | | 15.6298 | 15.6298 | 0.0153 | | 16.0121 |
| Total | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

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 | 0.5166 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.1887 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.2661 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | | 15.6298 | 15.6298 | 0.0153 | | 16.0121 |
| Total | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

River View at Las Palmas Assisted Living Senior Facility - Monterey Bay Unified APCD Air District, Winter

**River View at Las Palmas Assisted Living Senior Facility
Monterey Bay Unified APCD Air District, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|---------------|-------------|--------------------|------------|
| Other Asphalt Surfaces | 69.12 | 1000sqft | 1.59 | 69,120.00 | 0 |
| Parking Lot | 76.00 | Space | 0.68 | 30,400.00 | 0 |
| Retirement Community | 105.00 | Dwelling Unit | 2.07 | 147,355.00 | 147 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|--------------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.8 | Precipitation Freq (Days) | 53 |
| Climate Zone | 4 | | | Operational Year | 2020 |
| Utility Company | Pacific Gas & Electric Company | | | | |
| CO2 Intensity (lb/MW hr) | 641.35 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Acreage (building coverage) and Bldg gross SF from project plans. Population based on 147 beds max from client.

Construction Off-road Equipment Mitigation - Per Air District guidelines

Area Mitigation - Per Air District guidelines

Energy Mitigation -

Water Mitigation -

Grading - Fill material to be imported and used onsite per project plan

| Table Name | Column Name | Default Value | New Value |
|------------|-------------|---------------|-----------|
|------------|-------------|---------------|-----------|

| | | | |
|---------------------------|------------------------------|------------|------------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 40 | 0 |
| tblGrading | MaterialImported | 0.00 | 34,500.00 |
| tblLandUse | BuildingSpaceSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LandUseSquareFeet | 105,000.00 | 147,355.00 |
| tblLandUse | LotAcreage | 21.00 | 2.07 |
| tblLandUse | Population | 300.00 | 147.00 |
| tblProjectCharacteristics | OperationalYear | 2018 | 2020 |
| tblTripsAndVMT | HaulingTripNumber | 4,313.00 | 4,312.00 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|-----------------|-----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 8.6710 | 213.7687 | 51.8586 | 0.4697 | 18.2141 | 2.6528 | 20.7924 | 9.9699 | 2.4810 | 12.3419 | 0.0000 | 49,393.3769 | 49,393.3769 | 3.0265 | 0.0000 | 49,469.0384 |
| 2019 | 105.1427 | 25.4843 | 23.1662 | 0.0447 | 1.1507 | 1.3291 | 2.4798 | 0.3095 | 1.2500 | 1.5595 | 0.0000 | 4,401.1835 | 4,401.1835 | 0.7295 | 0.0000 | 4,419.4208 |
| Maximum | 105.1427 | 213.7687 | 51.8586 | 0.4697 | 18.2141 | 2.6528 | 20.7924 | 9.9699 | 2.4810 | 12.3419 | 0.0000 | 49,393.3769 | 49,393.3769 | 3.0265 | 0.0000 | 49,469.0384 |

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 | | | | | |

| | | | | | | | | | | | | | | | | |
|---------|----------|----------|---------|--------|---------|--------|---------|--------|--------|--------|--------|-------------|-------------|--------|--------|-------------|
| 2018 | 8.6710 | 213.7687 | 51.8586 | 0.4697 | 12.7908 | 2.6528 | 15.4436 | 4.5080 | 2.4810 | 6.8800 | 0.0000 | 49,393.3769 | 49,393.3769 | 3.0265 | 0.0000 | 49,469.0384 |
| 2019 | 105.1427 | 25.4843 | 23.1662 | 0.0447 | 1.1507 | 1.3291 | 2.4798 | 0.3095 | 1.2500 | 1.5595 | 0.0000 | 4,401.1835 | 4,401.1835 | 0.7295 | 0.0000 | 4,419.4208 |
| Maximum | 105.1427 | 213.7687 | 51.8586 | 0.4697 | 12.7908 | 2.6528 | 15.4436 | 4.5080 | 2.4810 | 6.8800 | 0.0000 | 49,393.3769 | 49,393.3769 | 3.0265 | 0.0000 | 49,469.0384 |

| | ROG | NOx | CO | SO2 | 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 | 28.01 | 0.00 | 22.98 | 53.13 | 0.00 | 39.29 | 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 | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |
| Energy | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Mobile | 0.6561 | 3.4548 | 8.2577 | 0.0206 | 1.5476 | 0.0257 | 1.5733 | 0.4147 | 0.0242 | 0.4389 | | 2,077.3240 | 2,077.3240 | 0.1200 | | 2,080.3239 |
| Total | 4.6688 | 3.9086 | 17.1143 | 0.0233 | 1.5476 | 0.1021 | 1.6497 | 0.4147 | 0.1006 | 0.5152 | 0.0000 | 2,543.7274 | 2,543.7274 | 0.1439 | 8.2600e-003 | 2,549.7885 |

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 | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------------|-------------------|---------------|--------------------|-------------------|
| Energy | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Mobile | 0.6561 | 3.4548 | 8.2577 | 0.0206 | 1.5476 | 0.0257 | 1.5733 | 0.4147 | 0.0242 | 0.4389 | | 2,077.3240 | 2,077.3240 | 0.1200 | | 2,080.3239 |
| Total | 4.6688 | 3.9086 | 17.1143 | 0.0233 | 1.5476 | 0.1021 | 1.6497 | 0.4147 | 0.1006 | 0.5152 | 0.0000 | 2,543.7274 | 2,543.7274 | 0.1439 | 8.2600e-003 | 2,549.7885 |

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 1/8/2018 | 2/2/2018 | 5 | 20 | |
| 2 | Site Preparation | Site Preparation | 2/3/2018 | 2/9/2018 | 5 | 5 | |
| 3 | Grading | Grading | 2/10/2018 | 2/21/2018 | 5 | 8 | |
| 4 | Building Construction | Building Construction | 2/22/2018 | 1/9/2019 | 5 | 230 | |
| 5 | Paving | Paving | 1/10/2019 | 2/4/2019 | 5 | 18 | |
| 6 | Architectural Coating | Architectural Coating | 2/5/2019 | 2/28/2019 | 5 | 18 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 4

Acres of Paving: 2.27

Residential Indoor: 298,394; Residential Outdoor: 99,465; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area:

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Architectural Coating | 1 | 23.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 117.00 | 28.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Demolition | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 4,312.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Clean Paved Roads

3.2 Demolition - 2018

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |
| Total | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |
| Total | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|--------|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|---------------|---------------|----------------|--|-------------------|-------------------|---------------|--|-------------------|
| Off-Road | 4.5627 | 48.1988 | 22.4763 | 0.0380 | | 2.5769 | 2.5769 | | 2.3708 | 2.3708 | | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |
| Total | 4.5627 | 48.1988 | 22.4763 | 0.0380 | 18.0663 | 2.5769 | 20.6432 | 9.9307 | 2.3708 | 12.3014 | | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |

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 | 0.1060 | 0.1012 | 0.8554 | 1.5600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 154.8400 | 154.8400 | 8.1200e-003 | | 155.0430 |
| Total | 0.1060 | 0.1012 | 0.8554 | 1.5600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 154.8400 | 154.8400 | 8.1200e-003 | | 155.0430 |

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 | | | | | 8.1298 | 0.0000 | 8.1298 | 4.4688 | 0.0000 | 4.4688 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.5627 | 48.1988 | 22.4763 | 0.0380 | | 2.5769 | 2.5769 | | 2.3708 | 2.3708 | 0.0000 | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |
| Total | 4.5627 | 48.1988 | 22.4763 | 0.0380 | 8.1298 | 2.5769 | 10.7067 | 4.4688 | 2.3708 | 6.8396 | 0.0000 | 3,831.6239 | 3,831.6239 | 1.1928 | | 3,861.4448 |

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 | 0.1060 | 0.1012 | 0.8554 | 1.5600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 154.8400 | 154.8400 | 8.1200e-003 | | 155.0430 |
| Total | 0.1060 | 0.1012 | 0.8554 | 1.5600e-003 | 0.1479 | 1.3300e-003 | 0.1492 | 0.0392 | 1.2300e-003 | 0.0405 | | 154.8400 | 154.8400 | 8.1200e-003 | | 155.0430 |

3.4 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.2196 | 0.0000 | 7.2196 | 3.4685 | 0.0000 | 3.4685 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.7733 | 30.6725 | 16.5770 | 0.0297 | | 1.5513 | 1.5513 | | 1.4272 | 1.4272 | | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |
| Total | 2.7733 | 30.6725 | 16.5770 | 0.0297 | 7.2196 | 1.5513 | 8.7709 | 3.4685 | 1.4272 | 4.8957 | | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |

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 | 5.8095 | 183.0118 | 34.5688 | 0.4387 | 9.4187 | 1.1004 | 10.5191 | 2.5812 | 1.0528 | 3.6340 | | 46,276.3220 | 46,276.3220 | 2.0895 | | 46,328.5589 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |
| Total | 5.8978 | 183.0961 | 35.2817 | 0.4400 | 9.5420 | 1.1015 | 10.6434 | 2.6139 | 1.0538 | 3.6677 | | 46,405.3553 | 46,405.3553 | 2.0963 | | 46,457.7615 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.2488 | 0.0000 | 3.2488 | 1.5608 | 0.0000 | 1.5608 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.7733 | 30.6725 | 16.5770 | 0.0297 | | 1.5513 | 1.5513 | | 1.4272 | 1.4272 | 0.0000 | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |
| Total | 2.7733 | 30.6725 | 16.5770 | 0.0297 | 3.2488 | 1.5513 | 4.8002 | 1.5608 | 1.4272 | 2.9881 | 0.0000 | 2,988.0216 | 2,988.0216 | 0.9302 | | 3,011.2769 |

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 | 5.8095 | 183.0118 | 34.5688 | 0.4387 | 9.4187 | 1.1004 | 10.5191 | 2.5812 | 1.0528 | 3.6340 | | 46,276.3220 | 46,276.3220 | 2.0895 | | 46,328.5589 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0883 | 0.0843 | 0.7128 | 1.3000e-003 | 0.1232 | 1.1100e-003 | 0.1243 | 0.0327 | 1.0200e-003 | 0.0337 | | 129.0333 | 129.0333 | 6.7700e-003 | | 129.2025 |
| Total | 5.8978 | 183.0961 | 35.2817 | 0.4400 | 9.5420 | 1.1015 | 10.6434 | 2.6139 | 1.0538 | 3.6677 | | 46,405.3553 | 46,405.3553 | 2.0963 | | 46,457.7615 |

3.5 Building Construction - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

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 | 0.1864 | 4.0648 | 1.2568 | 7.9700e-003 | 0.1896 | 0.0382 | 0.2277 | 0.0546 | 0.0365 | 0.0911 | | 835.8724 | 835.8724 | 0.0542 | | 837.2283 |
| Worker | 0.6887 | 0.6577 | 5.5599 | 0.0101 | 0.9611 | 8.6400e-003 | 0.9698 | 0.2549 | 7.9800e-003 | 0.2629 | | 1,006.4598 | 1,006.4598 | 0.0528 | | 1,007.7797 |
| Total | 0.8751 | 4.7225 | 6.8168 | 0.0181 | 1.1507 | 0.0468 | 1.1975 | 0.3095 | 0.0445 | 0.3540 | | 1,842.3321 | 1,842.3321 | 0.1070 | | 1,845.0080 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |
| Total | 2.6795 | 23.3900 | 17.5804 | 0.0269 | | 1.4999 | 1.4999 | | 1.4099 | 1.4099 | 0.0000 | 2,620.9351 | 2,620.9351 | 0.6421 | | 2,636.9883 |

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 | 0.1864 | 4.0648 | 1.2568 | 7.9700e-003 | 0.1896 | 0.0382 | 0.2277 | 0.0546 | 0.0365 | 0.0911 | | 835.8724 | 835.8724 | 0.0542 | | 837.2283 |
| Worker | 0.6887 | 0.6577 | 5.5599 | 0.0101 | 0.9611 | 8.6400e-003 | 0.9698 | 0.2549 | 7.9800e-003 | 0.2629 | | 1,006.4598 | 1,006.4598 | 0.0528 | | 1,007.7797 |
| Total | 0.8751 | 4.7225 | 6.8168 | 0.0181 | 1.1507 | 0.0468 | 1.1975 | 0.3095 | 0.0445 | 0.3540 | | 1,842.3321 | 1,842.3321 | 0.1070 | | 1,845.0080 |

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 | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Total | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|

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 | 0.1620 | 3.8279 | 1.1124 | 7.9300e-003 | 0.1896 | 0.0310 | 0.2205 | 0.0546 | 0.0296 | 0.0842 | | 831.7986 | 831.7986 | 0.0519 | | 833.0955 |
| Worker | 0.6166 | 0.5776 | 4.8900 | 9.8400e-003 | 0.9611 | 8.3000e-003 | 0.9694 | 0.2549 | 7.6600e-003 | 0.2626 | | 977.8047 | 977.8047 | 0.0463 | | 978.9619 |
| Total | 0.7786 | 4.4055 | 6.0024 | 0.0178 | 1.1507 | 0.0393 | 1.1900 | 0.3095 | 0.0373 | 0.3468 | | 1,809.6033 | 1,809.6033 | 0.0982 | | 1,812.0574 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |
| Total | 2.3612 | 21.0788 | 17.1638 | 0.0269 | | 1.2899 | 1.2899 | | 1.2127 | 1.2127 | 0.0000 | 2,591.5802 | 2,591.5802 | 0.6313 | | 2,607.3635 |

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 | 0.1620 | 3.8279 | 1.1124 | 7.9300e-003 | 0.1896 | 0.0310 | 0.2205 | 0.0546 | 0.0296 | 0.0842 | | 831.7986 | 831.7986 | 0.0519 | | 833.0955 |
| Worker | 0.6166 | 0.5776 | 4.8900 | 9.8400e-003 | 0.9611 | 8.3000e-003 | 0.9694 | 0.2549 | 7.6600e-003 | 0.2626 | | 977.8047 | 977.8047 | 0.0463 | | 978.9619 |
| Total | 0.7786 | 4.4055 | 6.0024 | 0.0178 | 1.1507 | 0.0393 | 1.1900 | 0.3095 | 0.0373 | 0.3468 | | 1,809.6033 | 1,809.6033 | 0.0982 | | 1,812.0574 |

3.6 Paving - 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 | 1.2679 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |
| Paving | 0.3304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5983 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |

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 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.1054 | 0.0987 | 0.8359 | 1.6800e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 167.1461 | 167.1461 | 7.9100e-003 | | 167.3439 |
| Total | 0.1054 | 0.0987 | 0.8359 | 1.6800e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 167.1461 | 167.1461 | 7.9100e-003 | | 167.3439 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.2679 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | 0.0000 | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |
| Paving | 0.3304 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.5983 | 12.7604 | 12.3130 | 0.0189 | | 0.7196 | 0.7196 | | 0.6637 | 0.6637 | 0.0000 | 1,843.3191 | 1,843.3191 | 0.5671 | | 1,857.4966 |

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 | 0.1054 | 0.0987 | 0.8359 | 1.6800e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 167.1461 | 167.1461 | 7.9100e-003 | | 167.3439 |
| Total | 0.1054 | 0.0987 | 0.8359 | 1.6800e-003 | 0.1643 | 1.4200e-003 | 0.1657 | 0.0436 | 1.3100e-003 | 0.0449 | | 167.1461 | 167.1461 | 7.9100e-003 | | 167.3439 |

3.7 Architectural Coating - 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 | | | | | |
| Archit. Coating | 104.7550 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| Total | 105.0214 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |

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 | 0.1212 | 0.1136 | 0.9613 | 1.9300e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 192.2180 | 192.2180 | 9.1000e-003 | | 192.4455 |
| Total | 0.1212 | 0.1136 | 0.9613 | 1.9300e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 192.2180 | 192.2180 | 9.1000e-003 | | 192.4455 |

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 | 104.7550 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2664 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |
| Total | 105.0214 | 1.8354 | 1.8413 | 2.9700e-003 | | 0.1288 | 0.1288 | | 0.1288 | 0.1288 | 0.0000 | 281.4481 | 281.4481 | 0.0238 | | 282.0423 |

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 | 0.1212 | 0.1136 | 0.9613 | 1.9300e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 192.2180 | 192.2180 | 9.1000e-003 | | 192.4455 |
| Total | 0.1212 | 0.1136 | 0.9613 | 1.9300e-003 | 0.1889 | 1.6300e-003 | 0.1906 | 0.0501 | 1.5100e-003 | 0.0516 | | 192.2180 | 192.2180 | 9.1000e-003 | | 192.4455 |

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 | | | |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----------|------------|--------|------------|
| | 0.6561 | 3.4548 | 8.2577 | 0.0206 | 1.5476 | 0.0257 | 1.5733 | 0.4147 | 0.0242 | 0.4389 | 2,077.324 | 2,077.3240 | 0.1200 | 2,080.323 |
| Mitigated | 0.6561 | 3.4548 | 8.2577 | 0.0206 | 1.5476 | 0.0257 | 1.5733 | 0.4147 | 0.0242 | 0.4389 | 0 | 2,077.3240 | 0.1200 | 2,080.3239 |
| Unmitigated | 0.6561 | 3.4548 | 8.2577 | 0.0206 | 1.5476 | 0.0257 | 1.5733 | 0.4147 | 0.0242 | 0.4389 | 0 | 2,077.3240 | 0.1200 | 2,080.3239 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------------|-------------------------|---------------|---------------|----------------|----------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Retirement Community | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |
| Total | 252.00 | 213.15 | 204.75 | 690,549 | 690,549 |

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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Parking Lot | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Retirement Community | 10.80 | 7.30 | 7.50 | 44.00 | 18.80 | 37.20 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Parking Lot | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |
| Retirement Community | 0.533000 | 0.030830 | 0.199754 | 0.134871 | 0.025112 | 0.005817 | 0.017861 | 0.037451 | 0.003065 | 0.002809 | 0.007291 | 0.001110 | 0.001028 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| NaturalGas Unmitigated | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

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 | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 3831.58 | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Total | | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

Mitigated

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

| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
|------------------------|---------|---------------|---------------|---------------|--------------------|--|---------------|---------------|--|---------------|---------------|--------|-----------------|-----------------|--------------------|--------------------|-----------------|
| | | | | | | | | | | | | | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Retirement Community | 3.83158 | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |
| Total | | 0.0413 | 0.3531 | 0.1503 | 2.2500e-003 | | 0.0286 | 0.0286 | | 0.0286 | 0.0286 | | 450.7737 | 450.7737 | 8.6400e-003 | 8.2600e-003 | 453.4524 |

6.0 Area Detail

6.1 Mitigation Measures Area

Use only Natural Gas Hearths

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|---------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |
| Unmitigated | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

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 | 0.5166 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.1887 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.2661 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | | 15.6298 | 15.6298 | 0.0153 | | 16.0121 |
| Total | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

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 | 0.5166 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.1887 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.2661 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | | 15.6298 | 15.6298 | 0.0153 | | 16.0121 |
| Total | 3.9713 | 0.1007 | 8.7063 | 4.6000e-004 | | 0.0478 | 0.0478 | | 0.0478 | 0.0478 | 0.0000 | 15.6298 | 15.6298 | 0.0153 | 0.0000 | 16.0121 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation
