# Appendix F

# Air Quality and Greenhouse Gas Calculations

# Appendix F

Air Quality and Greenhouse Gas
Supporting Information

- 2025 Annual AQ and GHG Calculations
- 2025 Summer AQ and GHG Calculations
- 2025 Winter AQ and GHG Calculations
- 2040 Annual AQ and GHG Calculations
- 2040 Summer AQ and GHG Calculations
- 2040 Winter AQ and GHG Calculations

# VA Alameda

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2025 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - Reduced building construction to coincide with the project's operational year. Architectural coating was changed to overlap with building construction.

Off-road Equipment - minimal grading required

Trips and VMT - few trips required for cemetery

Grading - Total site area changed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 1,550.00 | 835.00 |
| tblConstructionPhase | PhaseEndDate | 10/8/2027 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 8/11/2028 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 3/10/2028 | 6/13/2025 |
| tblConstructionPhase | PhaseStartDate | 3/11/2028 | 8/12/2024 |
| tblConstructionPhase | PhaseStartDate | 10/9/2027 | 1/13/2025 |
| tblGrading | AcresOfGrading | 232.50 | 84.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblTripsAndVMT | VendorTripNumber | 598.00 | 54.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,516.00 | 104.00 |
| tblTripsAndVMT | WorkerTripNumber | 303.00 | 20.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.22 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.22 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.22 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 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 | | | | | |
| 2021 | 0.4119 | 4.3431 | 2.7353 | 5.6300e-003 | 1.0962 | 0.1969 | 1.2931 | 0.5709 | 0.1816 | 0.7525 | 0.0000 | 497.4928 | 497.4928 | 0.1391 | 0.0000 | 500.9695 |
| 2022 | 0.2813 | 2.7501 | 2.5780 | 6.3400e-003 | 0.1529 | 0.1072 | 0.2601 | 0.0417 | 0.1009 | 0.1426 | 0.0000 | 568.5184 | 568.5184 | 0.0825 | 0.0000 | 570.5818 |
| 2023 | 0.2562 | 2.4285 | 2.5221 | 6.2500e-003 | 0.1529 | 0.0923 | 0.2451 | 0.0417 | 0.0868 | 0.1285 | 0.0000 | 560.2375 | 560.2375 | 0.0806 | 0.0000 | 562.2526 |
| 2024 | 1.0422 | 2.3794 | 2.6168 | 6.4600e-003 | 0.1621 | 0.0848 | 0.2469 | 0.0442 | 0.0799 | 0.1241 | 0.0000 | 579.1607 | 579.1607 | 0.0813 | 0.0000 | 581.1942 |
| 2025 | 0.1219 | 0.5444 | 0.8993 | 1.5100e-003 | 0.0119 | 0.0254 | 0.0373 | 3.1900e-003 | 0.0234 | 0.0266 | 0.0000 | 133.2560 | 133.2560 | 0.0382 | 0.0000 | 134.2108 |
| **Maximum** | **1.0422** | **4.3431** | **2.7353** | **6.4600e-003** | **1.0962** | **0.1969** | **1.2931** | **0.5709** | **0.1816** | **0.7525** | **0.0000** | **579.1607** | **579.1607** | **0.1391** | **0.0000** | **581.1942** |

## 2.1 Overall Construction

**Mitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.4119 | 4.3431 | 2.7353 | 5.6300e-003 | 0.5169 | 0.1969 | 0.7138 | 0.2633 | 0.1816 | 0.4449 | 0.0000 | 497.4923 | 497.4923 | 0.1391 | 0.0000 | 500.9690 |
| 2022 | 0.2813 | 2.7501 | 2.5780 | 6.3400e-003 | 0.1529 | 0.1072 | 0.2601 | 0.0417 | 0.1009 | 0.1426 | 0.0000 | 568.5180 | 568.5180 | 0.0825 | 0.0000 | 570.5815 |
| 2023 | 0.2562 | 2.4285 | 2.5221 | 6.2500e-003 | 0.1529 | 0.0923 | 0.2451 | 0.0417 | 0.0868 | 0.1285 | 0.0000 | 560.2371 | 560.2371 | 0.0806 | 0.0000 | 562.2522 |
| 2024 | 1.0422 | 2.3794 | 2.6168 | 6.4600e-003 | 0.1621 | 0.0848 | 0.2469 | 0.0442 | 0.0799 | 0.1241 | 0.0000 | 579.1603 | 579.1603 | 0.0813 | 0.0000 | 581.1938 |
| 2025 | 0.1219 | 0.5444 | 0.8993 | 1.5100e-003 | 0.0119 | 0.0254 | 0.0373 | 3.1900e-003 | 0.0234 | 0.0266 | 0.0000 | 133.2559 | 133.2559 | 0.0382 | 0.0000 | 134.2107 |
| **Maximum** | **1.0422** | **4.3431** | **2.7353** | **6.4600e-003** | **0.5169** | **0.1969** | **0.7138** | **0.2633** | **0.1816** | **0.4449** | **0.0000** | **579.1603** | **579.1603** | **0.1391** | **0.0000** | **581.1938** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **36.76** | **0.00** | **27.82** | **43.83** | **0.00** | **26.19** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** | **0.00** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| **1** | **1-4-2021** | **4-3-2021** | 1.4077 | 1.4077 |
| **2** | **4-4-2021** | **7-3-2021** | 1.1920 | 1.1920 |
| **3** | **7-4-2021** | **10-3-2021** | 1.2052 | 1.2052 |
| **4** | **10-4-2021** | **1-3-2022** | 0.9448 | 0.9448 |
| **5** | **1-4-2022** | **4-3-2022** | 0.7508 | 0.7508 |
| **6** | **4-4-2022** | **7-3-2022** | 0.7557 | 0.7557 |

| | | | | |
|---|---|---|---|---|
| **7** | **7-4-2022** | **10-3-2022** | 0.7642 | 0.7642 |
| **8** | **10-4-2022** | **1-3-2023** | 0.7648 | 0.7648 |
| **9** | **1-4-2023** | **4-3-2023** | 0.6651 | 0.6651 |
| **10** | **4-4-2023** | **7-3-2023** | 0.6698 | 0.6698 |
| **11** | **7-4-2023** | **10-3-2023** | 0.6773 | 0.6773 |
| **12** | **10-4-2023** | **1-3-2024** | 0.6787 | 0.6787 |
| **13** | **1-4-2024** | **4-3-2024** | 0.6358 | 0.6358 |
| **14** | **4-4-2024** | **7-3-2024** | 0.6333 | 0.6333 |
| **15** | **7-4-2024** | **10-3-2024** | 0.9608 | 0.9608 |
| **16** | **10-4-2024** | **1-3-2025** | 1.1982 | 1.1982 |
| **17** | **1-4-2025** | **4-3-2025** | 0.3647 | 0.3647 |
| **18** | **4-4-2025** | **7-3-2025** | 0.2422 | 0.2422 |
| | | **Highest** | 1.4077 | 1.4077 |

## 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 | 0.7546 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Energy | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 759.9219 | 759.9219 | 0.0300 | 8.6200e-003 | 763.2398 |
| Mobile | 0.3662 | 1.6810 | 3.8890 | 0.0150 | 1.4152 | 0.0123 | 1.4276 | 0.3798 | 0.0115 | 0.3913 | 0.0000 | 1,383.7044 | 1,383.7044 | 0.0478 | 0.0000 | 1,384.9001 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.7243 | 0.0000 | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.5718 | 134.0593 | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| **Total** | **1.1377** | **1.8355** | **4.0210** | **0.0160** | **1.4152** | **0.0241** | **1.4393** | **0.3798** | **0.0233** | **0.4030** | **355.2960** | **2,277.6899** | **2,632.9859** | **21.3679** | **0.0258** | **3,174.8747** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7546 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Energy | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 759.9219 | 759.9219 | 0.0300 | 8.6200e-003 | 763.2398 |
| Mobile | 0.3662 | 1.6810 | 3.8890 | 0.0150 | 1.4152 | 0.0123 | 1.4276 | 0.3798 | 0.0115 | 0.3913 | 0.0000 | 1,383.7044 | 1,383.7044 | 0.0478 | 0.0000 | 1,384.9001 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.7243 | 0.0000 | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.5718 | 134.0593 | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| **Total** | **1.1377** | **1.8355** | **4.0210** | **0.0160** | **1.4152** | **0.0241** | **1.4393** | **0.3798** | **0.0233** | **0.4030** | **355.2960** | **2,277.6899** | **2,632.9859** | **21.3679** | **0.0258** | **3,174.8747** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Site Preparation | Site Preparation | 1/4/2021 | 3/26/2021 | 5 | 60 | |
| 2 | Grading | Grading | 3/27/2021 | 10/29/2021 | 5 | 155 | |
| 3 | Building Construction | Building Construction | 10/30/2021 | 1/10/2025 | 5 | 835 | |
| 4 | Paving | Paving | 1/13/2025 | 6/13/2025 | 5 | 110 | |
| 5 | Architectural Coating | Architectural Coating | 8/12/2024 | 1/10/2025 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 84**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 244,500; Non-Residential Outdoor: 81,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 104.00 | 54.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 Site Preparation - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5420 | 0.0000 | 0.5420 | 0.2979 | 0.0000 | 0.2979 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1167 | 1.2149 | 0.6346 | 1.1400e-003 | | 0.0613 | 0.0613 | | 0.0564 | 0.0564 | 0.0000 | 100.3072 | 100.3072 | 0.0324 | 0.0000 | 101.1182 |
| **Total** | **0.1167** | **1.2149** | **0.6346** | **1.1400e-003** | **0.5420** | **0.0613** | **0.6033** | **0.2979** | **0.0564** | **0.3544** | **0.0000** | **100.3072** | **100.3072** | **0.0324** | **0.0000** | **101.1182** |

## 3.2 Site Preparation - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6600e-003 | 1.1400e-003 | 0.0121 | 4.0000e-005 | 4.2700e-003 | 3.0000e-005 | 4.2900e-003 | 1.1400e-003 | 3.0000e-005 | 1.1600e-003 | 0.0000 | 3.6072 | 3.6072 | 8.0000e-005 | 0.0000 | 3.6092 |
| **Total** | **1.6600e-003** | **1.1400e-003** | **0.0121** | **4.0000e-005** | **4.2700e-003** | **3.0000e-005** | **4.2900e-003** | **1.1400e-003** | **3.0000e-005** | **1.1600e-003** | **0.0000** | **3.6072** | **3.6072** | **8.0000e-005** | **0.0000** | **3.6092** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2439 | 0.0000 | 0.2439 | 0.1341 | 0.0000 | 0.1341 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.1167 | 1.2149 | 0.6346 | 1.1400e-003 | | 0.0613 | 0.0613 | | 0.0564 | 0.0564 | 0.0000 | 100.3070 | 100.3070 | 0.0324 | 0.0000 | 101.1181 |
| **Total** | **0.1167** | **1.2149** | **0.6346** | **1.1400e-003** | **0.2439** | **0.0613** | **0.3052** | **0.1341** | **0.0564** | **0.1905** | **0.0000** | **100.3070** | **100.3070** | **0.0324** | **0.0000** | **101.1181** |

## 3.2 Site Preparation - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.6600e-003 | 1.1400e-003 | 0.0121 | 4.0000e-005 | 4.2700e-003 | 3.0000e-005 | 4.2900e-003 | 1.1400e-003 | 3.0000e-005 | 1.1600e-003 | 0.0000 | 3.6072 | 3.6072 | 8.0000e-005 | 0.0000 | 3.6092 |
| **Total** | **1.6600e-003** | **1.1400e-003** | **0.0121** | **4.0000e-005** | **4.2700e-003** | **3.0000e-005** | **4.2900e-003** | **1.1400e-003** | **3.0000e-005** | **1.1600e-003** | **0.0000** | **3.6072** | **3.6072** | **8.0000e-005** | **0.0000** | **3.6092** |

## 3.3 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.5113 | 0.0000 | 0.5113 | 0.2614 | 0.0000 | 0.2614 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2350 | 2.5996 | 1.5967 | 3.2300e-003 | | 0.1135 | 0.1135 | | 0.1044 | 0.1044 | 0.0000 | 283.9650 | 283.9650 | 0.0918 | 0.0000 | 286.2610 |
| **Total** | **0.2350** | **2.5996** | **1.5967** | **3.2300e-003** | **0.5113** | **0.1135** | **0.6248** | **0.2614** | **0.1044** | **0.3658** | **0.0000** | **283.9650** | **283.9650** | **0.0918** | **0.0000** | **286.2610** |

## 3.3 Grading - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.7600e-003 | 3.2800e-003 | 0.0348 | 1.1000e-004 | 0.0123 | 8.0000e-005 | 0.0123 | 3.2600e-003 | 7.0000e-005 | 3.3300e-003 | 0.0000 | 10.3539 | 10.3539 | 2.3000e-004 | 0.0000 | 10.3597 |
| **Total** | **4.7600e-003** | **3.2800e-003** | **0.0348** | **1.1000e-004** | **0.0123** | **8.0000e-005** | **0.0123** | **3.2600e-003** | **7.0000e-005** | **3.3300e-003** | **0.0000** | **10.3539** | **10.3539** | **2.3000e-004** | **0.0000** | **10.3597** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2301 | 0.0000 | 0.2301 | 0.1176 | 0.0000 | 0.1176 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.2350 | 2.5996 | 1.5967 | 3.2300e-003 | | 0.1135 | 0.1135 | | 0.1044 | 0.1044 | 0.0000 | 283.9647 | 283.9647 | 0.0918 | 0.0000 | 286.2607 |
| **Total** | **0.2350** | **2.5996** | **1.5967** | **3.2300e-003** | **0.2301** | **0.1135** | **0.3436** | **0.1176** | **0.1044** | **0.2220** | **0.0000** | **283.9647** | **283.9647** | **0.0918** | **0.0000** | **286.2607** |

## 3.3 Grading - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.7600e-003 | 3.2800e-003 | 0.0348 | 1.1000e-004 | 0.0123 | 8.0000e-005 | 0.0123 | 3.2600e-003 | 7.0000e-005 | 3.3300e-003 | 0.0000 | 10.3539 | 10.3539 | 2.3000e-004 | 0.0000 | 10.3597 |
| **Total** | **4.7600e-003** | **3.2800e-003** | **0.0348** | **1.1000e-004** | **0.0123** | **8.0000e-005** | **0.0123** | **3.2600e-003** | **7.0000e-005** | **3.3300e-003** | **0.0000** | **10.3539** | **10.3539** | **2.3000e-004** | **0.0000** | **10.3597** |

## 3.4 Building Construction - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3922 | 0.3729 | 6.1000e-004 | | 0.0216 | 0.0216 | | 0.0203 | 0.0203 | 0.0000 | 52.1184 | 52.1184 | 0.0126 | 0.0000 | 52.4327 |
| **Total** | **0.0428** | **0.3922** | **0.3729** | **6.1000e-004** | | **0.0216** | **0.0216** | | **0.0203** | **0.0203** | **0.0000** | **52.1184** | **52.1184** | **0.0126** | **0.0000** | **52.4327** |

## 3.4 Building Construction - 2021

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.8600e-003 | 0.1269 | 0.0317 | 3.3000e-004 | 7.9700e-003 | 2.8000e-004 | 8.2400e-003 | 2.3000e-003 | 2.6000e-004 | 2.5700e-003 | 0.0000 | 31.5103 | 31.5103 | 1.5500e-003 | 0.0000 | 31.5490 |
| Worker | 7.1800e-003 | 4.9500e-003 | 0.0525 | 1.7000e-004 | 0.0185 | 1.2000e-004 | 0.0186 | 4.9200e-003 | 1.1000e-004 | 5.0300e-003 | 0.0000 | 15.6310 | 15.6310 | 3.5000e-004 | 0.0000 | 15.6397 |
| **Total** | **0.0110** | **0.1319** | **0.0842** | **5.0000e-004** | **0.0265** | **4.0000e-004** | **0.0269** | **7.2200e-003** | **3.7000e-004** | **7.6000e-003** | **0.0000** | **47.1413** | **47.1413** | **1.9000e-003** | **0.0000** | **47.1888** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0428 | 0.3922 | 0.3729 | 6.1000e-004 | | 0.0216 | 0.0216 | | 0.0203 | 0.0203 | 0.0000 | 52.1183 | 52.1183 | 0.0126 | 0.0000 | 52.4327 |
| **Total** | **0.0428** | **0.3922** | **0.3729** | **6.1000e-004** | | **0.0216** | **0.0216** | | **0.0203** | **0.0203** | **0.0000** | **52.1183** | **52.1183** | **0.0126** | **0.0000** | **52.4327** |

## 3.4 Building Construction - 2021

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 3.8600e-003 | 0.1269 | 0.0317 | 3.3000e-004 | 7.9700e-003 | 2.8000e-004 | 8.2400e-003 | 2.3000e-003 | 2.6000e-004 | 2.5700e-003 | 0.0000 | 31.5103 | 31.5103 | 1.5500e-003 | 0.0000 | 31.5490 |
| Worker | 7.1800e-003 | 4.9500e-003 | 0.0525 | 1.7000e-004 | 0.0185 | 1.2000e-004 | 0.0186 | 4.9200e-003 | 1.1000e-004 | 5.0300e-003 | 0.0000 | 15.6310 | 15.6310 | 3.5000e-004 | 0.0000 | 15.6397 |
| **Total** | **0.0110** | **0.1319** | **0.0842** | **5.0000e-004** | **0.0265** | **4.0000e-004** | **0.0269** | **7.2200e-003** | **3.7000e-004** | **7.6000e-003** | **0.0000** | **47.1413** | **47.1413** | **1.9000e-003** | **0.0000** | **47.1888** |

## 3.4 Building Construction - 2022

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2218 | 2.0300 | 2.1272 | 3.5000e-003 | | 0.1052 | 0.1052 | | 0.0990 | 0.0990 | 0.0000 | 301.2428 | 301.2428 | 0.0722 | 0.0000 | 303.0471 |
| **Total** | **0.2218** | **2.0300** | **2.1272** | **3.5000e-003** | | **0.1052** | **0.1052** | | **0.0990** | **0.0990** | **0.0000** | **301.2428** | **301.2428** | **0.0722** | **0.0000** | **303.0471** |

## 3.4 Building Construction - 2022

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0208 | 0.6944 | 0.1721 | 1.8700e-003 | 0.0460 | 1.3800e-003 | 0.0474 | 0.0133 | 1.3200e-003 | 0.0146 | 0.0000 | 180.2743 | 180.2743 | 8.5500e-003 | 0.0000 | 180.4881 |
| Worker | 0.0387 | 0.0257 | 0.2787 | 9.6000e-004 | 0.1068 | 6.8000e-004 | 0.1075 | 0.0284 | 6.3000e-004 | 0.0291 | 0.0000 | 87.0013 | 87.0013 | 1.8200e-003 | 0.0000 | 87.0467 |
| **Total** | **0.0595** | **0.7201** | **0.4508** | **2.8300e-003** | **0.1529** | **2.0600e-003** | **0.1549** | **0.0417** | **1.9500e-003** | **0.0437** | **0.0000** | **267.2755** | **267.2755** | **0.0104** | **0.0000** | **267.5348** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2218 | 2.0300 | 2.1272 | 3.5000e-003 | | 0.1052 | 0.1052 | | 0.0990 | 0.0990 | 0.0000 | 301.2425 | 301.2425 | 0.0722 | 0.0000 | 303.0467 |
| **Total** | **0.2218** | **2.0300** | **2.1272** | **3.5000e-003** | | **0.1052** | **0.1052** | | **0.0990** | **0.0990** | **0.0000** | **301.2425** | **301.2425** | **0.0722** | **0.0000** | **303.0467** |

## 3.4 Building Construction - 2022

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0208 | 0.6944 | 0.1721 | 1.8700e-003 | 0.0460 | 1.3800e-003 | 0.0474 | 0.0133 | 1.3200e-003 | 0.0146 | 0.0000 | 180.2743 | 180.2743 | 8.5500e-003 | 0.0000 | 180.4881 |
| Worker | 0.0387 | 0.0257 | 0.2787 | 9.6000e-004 | 0.1068 | 6.8000e-004 | 0.1075 | 0.0284 | 6.3000e-004 | 0.0291 | 0.0000 | 87.0013 | 87.0013 | 1.8200e-003 | 0.0000 | 87.0467 |
| **Total** | **0.0595** | **0.7201** | **0.4508** | **2.8300e-003** | **0.1529** | **2.0600e-003** | **0.1549** | **0.0417** | **1.9500e-003** | **0.0437** | **0.0000** | **267.2755** | **267.2755** | **0.0104** | **0.0000** | **267.5348** |

## 3.4 Building Construction - 2023

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2045 | 1.8700 | 2.1117 | 3.5000e-003 | | 0.0910 | 0.0910 | | 0.0856 | 0.0856 | 0.0000 | 301.3462 | 301.3462 | 0.0717 | 0.0000 | 303.1383 |
| **Total** | **0.2045** | **1.8700** | **2.1117** | **3.5000e-003** | | **0.0910** | **0.0910** | | **0.0856** | **0.0856** | **0.0000** | **301.3462** | **301.3462** | **0.0717** | **0.0000** | **303.1383** |

## 3.4 Building Construction - 2023

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0156 | 0.5354 | 0.1540 | 1.8200e-003 | 0.0460 | 6.2000e-004 | 0.0467 | 0.0133 | 5.9000e-004 | 0.0139 | 0.0000 | 175.2220 | 175.2220 | 7.2900e-003 | 0.0000 | 175.4042 |
| Worker | 0.0362 | 0.0231 | 0.2563 | 9.2000e-004 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0284 | 6.2000e-004 | 0.0290 | 0.0000 | 83.6693 | 83.6693 | 1.6300e-003 | 0.0000 | 83.7100 |
| **Total** | **0.0518** | **0.5585** | **0.4104** | **2.7400e-003** | **0.1529** | **1.2900e-003** | **0.1542** | **0.0417** | **1.2100e-003** | **0.0429** | **0.0000** | **258.8913** | **258.8913** | **8.9200e-003** | **0.0000** | **259.1143** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.2045 | 1.8700 | 2.1117 | 3.5000e-003 | | 0.0910 | 0.0910 | | 0.0856 | 0.0856 | 0.0000 | 301.3458 | 301.3458 | 0.0717 | 0.0000 | 303.1380 |
| **Total** | **0.2045** | **1.8700** | **2.1117** | **3.5000e-003** | | **0.0910** | **0.0910** | | **0.0856** | **0.0856** | **0.0000** | **301.3458** | **301.3458** | **0.0717** | **0.0000** | **303.1380** |

## 3.4 Building Construction - 2023

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0156 | 0.5354 | 0.1540 | 1.8200e-003 | 0.0460 | 6.2000e-004 | 0.0467 | 0.0133 | 5.9000e-004 | 0.0139 | 0.0000 | 175.2220 | 175.2220 | 7.2900e-003 | 0.0000 | 175.4042 |
| Worker | 0.0362 | 0.0231 | 0.2563 | 9.2000e-004 | 0.1068 | 6.7000e-004 | 0.1075 | 0.0284 | 6.2000e-004 | 0.0290 | 0.0000 | 83.6693 | 83.6693 | 1.6300e-003 | 0.0000 | 83.7100 |
| **Total** | **0.0518** | **0.5585** | **0.4104** | **2.7400e-003** | **0.1529** | **1.2900e-003** | **0.1542** | **0.0417** | **1.2100e-003** | **0.0429** | **0.0000** | **258.8913** | **258.8913** | **8.9200e-003** | **0.0000** | **259.1143** |

## 3.4 Building Construction - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7223 | 303.7223 | 0.0718 | 0.0000 | 305.5179 |
| **Total** | **0.1928** | **1.7611** | **2.1179** | **3.5300e-003** | | **0.0803** | **0.0803** | | **0.0756** | **0.0756** | **0.0000** | **303.7223** | **303.7223** | **0.0718** | **0.0000** | **305.5179** |

## 3.4 Building Construction - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0152 | 0.5335 | 0.1495 | 1.8200e-003 | 0.0464 | 6.1000e-004 | 0.0470 | 0.0134 | 5.8000e-004 | 0.0140 | 0.0000 | 175.3781 | 175.3781 | 7.2000e-003 | 0.0000 | 175.5581 |
| Worker | 0.0343 | 0.0210 | 0.2393 | 8.9000e-004 | 0.1077 | 6.6000e-004 | 0.1083 | 0.0286 | 6.1000e-004 | 0.0293 | 0.0000 | 80.9761 | 80.9761 | 1.4800e-003 | 0.0000 | 81.0130 |
| **Total** | **0.0495** | **0.5545** | **0.3887** | **2.7100e-003** | **0.1540** | **1.2700e-003** | **0.1553** | **0.0421** | **1.1900e-003** | **0.0433** | **0.0000** | **256.3543** | **256.3543** | **8.6800e-003** | **0.0000** | **256.5711** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1928 | 1.7611 | 2.1179 | 3.5300e-003 | | 0.0803 | 0.0803 | | 0.0756 | 0.0756 | 0.0000 | 303.7220 | 303.7220 | 0.0718 | 0.0000 | 305.5175 |
| **Total** | **0.1928** | **1.7611** | **2.1179** | **3.5300e-003** | | **0.0803** | **0.0803** | | **0.0756** | **0.0756** | **0.0000** | **303.7220** | **303.7220** | **0.0718** | **0.0000** | **305.5175** |

## 3.4 Building Construction - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0152 | 0.5335 | 0.1495 | 1.8200e-003 | 0.0464 | 6.1000e-004 | 0.0470 | 0.0134 | 5.8000e-004 | 0.0140 | 0.0000 | 175.3781 | 175.3781 | 7.2000e-003 | 0.0000 | 175.5581 |
| Worker | 0.0343 | 0.0210 | 0.2393 | 8.9000e-004 | 0.1077 | 6.6000e-004 | 0.1083 | 0.0286 | 6.1000e-004 | 0.0293 | 0.0000 | 80.9761 | 80.9761 | 1.4800e-003 | 0.0000 | 81.0130 |
| **Total** | **0.0495** | **0.5545** | **0.3887** | **2.7100e-003** | **0.1540** | **1.2700e-003** | **0.1553** | **0.0421** | **1.1900e-003** | **0.0433** | **0.0000** | **256.3543** | **256.3543** | **8.6800e-003** | **0.0000** | **256.5711** |

## 3.4 Building Construction - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 5.4700e-003 | 0.0499 | 0.0643 | 1.1000e-004 | | 2.1100e-003 | 2.1100e-003 | | 1.9900e-003 | 1.9900e-003 | 0.0000 | 9.2768 | 9.2768 | 2.1800e-003 | 0.0000 | 9.3313 |
| **Total** | **5.4700e-003** | **0.0499** | **0.0643** | **1.1000e-004** | | **2.1100e-003** | **2.1100e-003** | | **1.9900e-003** | **1.9900e-003** | **0.0000** | **9.2768** | **9.2768** | **2.1800e-003** | **0.0000** | **9.3313** |

## 3.4 Building Construction - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.5000e-004 | 0.0161 | 4.4300e-003 | 6.0000e-005 | 1.4200e-003 | 2.0000e-005 | 1.4300e-003 | 4.1000e-004 | 2.0000e-005 | 4.3000e-004 | 0.0000 | 5.3201 | 5.3201 | 2.2000e-004 | 0.0000 | 5.3255 |
| Worker | 9.9000e-004 | 5.8000e-004 | 6.7700e-003 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 8.9000e-004 | 0.0000 | 2.3719 | 2.3719 | 4.0000e-005 | 0.0000 | 2.3729 |
| **Total** | **1.4400e-003** | **0.0167** | **0.0112** | **9.0000e-005** | **4.7100e-003** | **4.0000e-005** | **4.7400e-003** | **1.2800e-003** | **4.0000e-005** | **1.3200e-003** | **0.0000** | **7.6920** | **7.6920** | **2.6000e-004** | **0.0000** | **7.6984** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 5.4700e-003 | 0.0499 | 0.0643 | 1.1000e-004 | | 2.1100e-003 | 2.1100e-003 | | 1.9900e-003 | 1.9900e-003 | 0.0000 | 9.2768 | 9.2768 | 2.1800e-003 | 0.0000 | 9.3313 |
| **Total** | **5.4700e-003** | **0.0499** | **0.0643** | **1.1000e-004** | | **2.1100e-003** | **2.1100e-003** | | **1.9900e-003** | **1.9900e-003** | **0.0000** | **9.2768** | **9.2768** | **2.1800e-003** | **0.0000** | **9.3313** |

## 3.4 Building Construction - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 4.5000e-004 | 0.0161 | 4.4300e-003 | 6.0000e-005 | 1.4200e-003 | 2.0000e-005 | 1.4300e-003 | 4.1000e-004 | 2.0000e-005 | 4.3000e-004 | 0.0000 | 5.3201 | 5.3201 | 2.2000e-004 | 0.0000 | 5.3255 |
| Worker | 9.9000e-004 | 5.8000e-004 | 6.7700e-003 | 3.0000e-005 | 3.2900e-003 | 2.0000e-005 | 3.3100e-003 | 8.7000e-004 | 2.0000e-005 | 8.9000e-004 | 0.0000 | 2.3719 | 2.3719 | 4.0000e-005 | 0.0000 | 2.3729 |
| **Total** | **1.4400e-003** | **0.0167** | **0.0112** | **9.0000e-005** | **4.7100e-003** | **4.0000e-005** | **4.7400e-003** | **1.2800e-003** | **4.0000e-005** | **1.3200e-003** | **0.0000** | **7.6920** | **7.6920** | **2.6000e-004** | **0.0000** | **7.6984** |

## 3.5 Paving - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0503 | 0.4720 | 0.8018 | 1.2500e-003 | | 0.0230 | 0.0230 | | 0.0212 | 0.0212 | 0.0000 | 110.1059 | 110.1059 | 0.0356 | 0.0000 | 110.9962 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0503** | **0.4720** | **0.8018** | **1.2500e-003** | | **0.0230** | **0.0230** | | **0.0212** | **0.0212** | **0.0000** | **110.1059** | **110.1059** | **0.0356** | **0.0000** | **110.9962** |

## 3.5 Paving - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.9600e-003 | 1.1600e-003 | 0.0134 | 5.0000e-005 | 6.5200e-003 | 4.0000e-005 | 6.5600e-003 | 1.7300e-003 | 4.0000e-005 | 1.7700e-003 | 0.0000 | 4.7039 | 4.7039 | 8.0000e-005 | 0.0000 | 4.7059 |
| **Total** | **1.9600e-003** | **1.1600e-003** | **0.0134** | **5.0000e-005** | **6.5200e-003** | **4.0000e-005** | **6.5600e-003** | **1.7300e-003** | **4.0000e-005** | **1.7700e-003** | **0.0000** | **4.7039** | **4.7039** | **8.0000e-005** | **0.0000** | **4.7059** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0503 | 0.4720 | 0.8018 | 1.2500e-003 | | 0.0230 | 0.0230 | | 0.0212 | 0.0212 | 0.0000 | 110.1058 | 110.1058 | 0.0356 | 0.0000 | 110.9960 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0503** | **0.4720** | **0.8018** | **1.2500e-003** | | **0.0230** | **0.0230** | | **0.0212** | **0.0212** | **0.0000** | **110.1058** | **110.1058** | **0.0356** | **0.0000** | **110.9960** |

## 3.5 Paving - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.9600e-003 | 1.1600e-003 | 0.0134 | 5.0000e-005 | 6.5200e-003 | 4.0000e-005 | 6.5600e-003 | 1.7300e-003 | 4.0000e-005 | 1.7700e-003 | 0.0000 | 4.7039 | 4.7039 | 8.0000e-005 | 0.0000 | 4.7059 |
| **Total** | **1.9600e-003** | **1.1600e-003** | **0.0134** | **5.0000e-005** | **6.5200e-003** | **4.0000e-005** | **6.5600e-003** | **1.7300e-003** | **4.0000e-005** | **1.7700e-003** | **0.0000** | **4.7039** | **4.7039** | **8.0000e-005** | **0.0000** | **4.7059** |

## 3.6 Architectural Coating - 2024

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7881 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.2200e-003 | 0.0622 | 0.0923 | 1.5000e-004 | | 3.1100e-003 | 3.1100e-003 | | 3.1100e-003 | 3.1100e-003 | 0.0000 | 13.0216 | 13.0216 | 7.3000e-004 | 0.0000 | 13.0399 |
| **Total** | **0.7974** | **0.0622** | **0.0923** | **1.5000e-004** | | **3.1100e-003** | **3.1100e-003** | | **3.1100e-003** | **3.1100e-003** | **0.0000** | **13.0216** | **13.0216** | **7.3000e-004** | **0.0000** | **13.0399** |

## 3.6 Architectural Coating - 2024

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.5600e-003 | 1.5700e-003 | 0.0179 | 7.0000e-005 | 8.0600e-003 | 5.0000e-005 | 8.1100e-003 | 2.1400e-003 | 5.0000e-005 | 2.1900e-003 | 0.0000 | 6.0625 | 6.0625 | 1.1000e-004 | 0.0000 | 6.0653 |
| **Total** | **2.5600e-003** | **1.5700e-003** | **0.0179** | **7.0000e-005** | **8.0600e-003** | **5.0000e-005** | **8.1100e-003** | **2.1400e-003** | **5.0000e-005** | **2.1900e-003** | **0.0000** | **6.0625** | **6.0625** | **1.1000e-004** | **0.0000** | **6.0653** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.7881 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.2200e-003 | 0.0622 | 0.0923 | 1.5000e-004 | | 3.1100e-003 | 3.1100e-003 | | 3.1100e-003 | 3.1100e-003 | 0.0000 | 13.0216 | 13.0216 | 7.3000e-004 | 0.0000 | 13.0399 |
| **Total** | **0.7974** | **0.0622** | **0.0923** | **1.5000e-004** | | **3.1100e-003** | **3.1100e-003** | | **3.1100e-003** | **3.1100e-003** | **0.0000** | **13.0216** | **13.0216** | **7.3000e-004** | **0.0000** | **13.0399** |

## 3.6 Architectural Coating - 2024

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 2.5600e-003 | 1.5700e-003 | 0.0179 | 7.0000e-005 | 8.0600e-003 | 5.0000e-005 | 8.1100e-003 | 2.1400e-003 | 5.0000e-005 | 2.1900e-003 | 0.0000 | 6.0625 | 6.0625 | 1.1000e-004 | 0.0000 | 6.0653 |
| **Total** | **2.5600e-003** | **1.5700e-003** | **0.0179** | **7.0000e-005** | **8.0600e-003** | **5.0000e-005** | **8.1100e-003** | **2.1400e-003** | **5.0000e-005** | **2.1900e-003** | **0.0000** | **6.0625** | **6.0625** | **1.1000e-004** | **0.0000** | **6.0653** |

## 3.6 Architectural Coating - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0618 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.8000e-004 | 4.5800e-003 | 7.2400e-003 | 1.0000e-005 | | 2.1000e-004 | 2.1000e-004 | | 2.1000e-004 | 2.1000e-004 | 0.0000 | 1.0213 | 1.0213 | 6.0000e-005 | 0.0000 | 1.0227 |
| **Total** | **0.0625** | **4.5800e-003** | **7.2400e-003** | **1.0000e-005** | | **2.1000e-004** | **2.1000e-004** | | **2.1000e-004** | **2.1000e-004** | **0.0000** | **1.0213** | **1.0213** | **6.0000e-005** | **0.0000** | **1.0227** |

## 3.6 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.9000e-004 | 1.1000e-004 | 1.3000e-003 | 1.0000e-005 | 6.3000e-004 | 0.0000 | 6.4000e-004 | 1.7000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.4561 | 0.4561 | 1.0000e-005 | 0.0000 | 0.4563 |
| **Total** | **1.9000e-004** | **1.1000e-004** | **1.3000e-003** | **1.0000e-005** | **6.3000e-004** | **0.0000** | **6.4000e-004** | **1.7000e-004** | **0.0000** | **1.7000e-004** | **0.0000** | **0.4561** | **0.4561** | **1.0000e-005** | **0.0000** | **0.4563** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.0618 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.8000e-004 | 4.5800e-003 | 7.2400e-003 | 1.0000e-005 | | 2.1000e-004 | 2.1000e-004 | | 2.1000e-004 | 2.1000e-004 | 0.0000 | 1.0213 | 1.0213 | 6.0000e-005 | 0.0000 | 1.0227 |
| **Total** | **0.0625** | **4.5800e-003** | **7.2400e-003** | **1.0000e-005** | | **2.1000e-004** | **2.1000e-004** | | **2.1000e-004** | **2.1000e-004** | **0.0000** | **1.0213** | **1.0213** | **6.0000e-005** | **0.0000** | **1.0227** |

### 3.6 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.9000e-004 | 1.1000e-004 | 1.3000e-003 | 1.0000e-005 | 6.3000e-004 | 0.0000 | 6.4000e-004 | 1.7000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.4561 | 0.4561 | 1.0000e-005 | 0.0000 | 0.4563 |
| **Total** | **1.9000e-004** | **1.1000e-004** | **1.3000e-003** | **1.0000e-005** | **6.3000e-004** | **0.0000** | **6.4000e-004** | **1.7000e-004** | **0.0000** | **1.7000e-004** | **0.0000** | **0.4561** | **0.4561** | **1.0000e-005** | **0.0000** | **0.4563** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.3662 | 1.6810 | 3.8890 | 0.0150 | 1.4152 | 0.0123 | 1.4276 | 0.3798 | 0.0115 | 0.3913 | 0.0000 | 1,383.7044 | 1,383.7044 | 0.0478 | 0.0000 | 1,384.9001 |
| Unmitigated | 0.3662 | 1.6810 | 3.8890 | 0.0150 | 1.4152 | 0.0123 | 1.4276 | 0.3798 | 0.0115 | 0.3913 | 0.0000 | 1,383.7044 | 1,383.7044 | 0.0478 | 0.0000 | 1,384.9001 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 337.60 | 337.60 | 337.60 | 720,726 | 720,726 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,901.08 | 1,901.08 | 1,901.08 | 3,803,770 | 3,803,770 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| General Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| Medical Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 591.7837 | 591.7837 | 0.0268 | 5.5400e-003 | 594.1025 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 591.7837 | 591.7837 | 0.0268 | 5.5400e-003 | 594.1025 |
| NaturalGas Mitigated | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 168.1382 | 168.1382 | 3.2200e-003 | 3.0800e-003 | 169.1373 |
| NaturalGas Unmitigated | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 168.1382 | 168.1382 | 3.2200e-003 | 3.0800e-003 | 169.1373 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 96650 | 5.2000e-004 | 4.7400e-003 | 3.9800e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.1576 | 5.1576 | 1.0000e-004 | 9.0000e-005 | 5.1883 |
| Medical Office Building | 3.05414e+006 | 0.0165 | 0.1497 | 0.1258 | 9.0000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 162.9805 | 162.9805 | 3.1200e-003 | 2.9900e-003 | 163.9491 |
| **Total** | | **0.0170** | **0.1545** | **0.1297** | **9.3000e-004** | | **0.0117** | **0.0117** | | **0.0117** | **0.0117** | **0.0000** | **168.1382** | **168.1382** | **3.2200e-003** | **3.0800e-003** | **169.1373** |

### Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 96650 | 5.2000e-004 | 4.7400e-003 | 3.9800e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.1576 | 5.1576 | 1.0000e-004 | 9.0000e-005 | 5.1883 |
| Medical Office Building | 3.05414e+006 | 0.0165 | 0.1497 | 0.1258 | 9.0000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 162.9805 | 162.9805 | 3.1200e-003 | 2.9900e-003 | 163.9491 |
| **Total** | | **0.0170** | **0.1545** | **0.1297** | **9.3000e-004** | | **0.0117** | **0.0117** | | **0.0117** | **0.0117** | **0.0000** | **168.1382** | **168.1382** | **3.2200e-003** | **3.0800e-003** | **169.1373** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 62400 | 18.1529 | 8.2000e-004 | 1.7000e-004 | 18.2240 |
| Medical Office Building | 1.97184e+006 | 573.6309 | 0.0259 | 5.3700e-003 | 575.8785 |
| **Total** | | **591.7838** | **0.0268** | **5.5400e-003** | **594.1025** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 62400 | 18.1529 | 8.2000e-004 | 1.7000e-004 | 18.2240 |
| Medical Office Building | 1.97184e+006 | 573.6309 | 0.0259 | 5.3700e-003 | 575.8785 |
| **Total** | | **591.7838** | **0.0268** | **5.5400e-003** | **594.1025** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.7546 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Unmitigated | 0.7546 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0850 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6694 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.1000e-004 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| **Total** | **0.7546** | **2.0000e-005** | **2.2300e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | **0.0000** | **4.3400e-003** | **4.3400e-003** | **1.0000e-005** | **0.0000** | **4.6200e-003** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0850 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6694 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.1000e-004 | 2.0000e-005 | 2.2300e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| **Total** | **0.7546** | **2.0000e-005** | **2.2300e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | **0.0000** | **4.3400e-003** | **4.3400e-003** | **1.0000e-005** | **0.0000** | **4.6200e-003** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| Unmitigated | 140.6311 | 0.6811 | 0.0172 | 162.7805 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 95.3185 | 97.0524 | 4.3900e-003 | 9.1000e-004 | 97.4326 |
| General Office Building | 0.888669 / 0.544668 | 2.2354 | 0.0291 | 7.0000e-004 | 3.1707 |
| Medical Office Building | 19.8259 / 3.77637 | 41.3433 | 0.6476 | 0.0156 | 62.1771 |
| **Total** | | **140.6311** | **0.6811** | **0.0172** | **162.7805** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 95.3185 | 97.0524 | 4.3900e-003 | 9.1000e-004 | 97.4326 |
| General Office Building | 0.888669 / 0.544668 | 2.2354 | 0.0291 | 7.0000e-004 | 3.1707 |
| Medical Office Building | 19.8259 / 3.77637 | 41.3433 | 0.6476 | 0.0156 | 62.1771 |
| **Total** | | **140.6311** | **0.6811** | **0.0172** | **162.7805** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Unmitigated | 348.7243 | 20.6090 | 0.0000 | 863.9496 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| General Office Building | 4.65 | 0.9439 | 0.0558 | 0.0000 | 2.3385 |
| Medical Office Building | 1706.4 | 346.3838 | 20.4707 | 0.0000 | 858.1512 |
| **Total** | | **348.7243** | **20.6090** | **0.0000** | **863.9496** |

### 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| General Office Building | 4.65 | 0.9439 | 0.0558 | 0.0000 | 2.3385 |
| Medical Office Building | 1706.4 | 346.3838 | 20.4707 | 0.0000 | 858.1512 |
| **Total** | | **348.7243** | **20.6090** | **0.0000** | **863.9496** |

## 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

# VA Alameda

**Bay Area AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2025 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - Reduced building construction to coincide with the project's operational year. Architectural coating was changed to overlap with building construction.

Off-road Equipment - minimal grading required

Trips and VMT - few trips required for cemetery

Grading - Total site area changed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 1,550.00 | 835.00 |
| tblConstructionPhase | PhaseEndDate | 10/8/2027 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 8/11/2028 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 3/10/2028 | 6/13/2025 |
| tblConstructionPhase | PhaseStartDate | 3/11/2028 | 8/12/2024 |
| tblConstructionPhase | PhaseStartDate | 10/9/2027 | 1/13/2025 |
| tblGrading | AcresOfGrading | 232.50 | 84.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblTripsAndVMT | VendorTripNumber | 598.00 | 54.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,516.00 | 104.00 |
| tblTripsAndVMT | WorkerTripNumber | 303.00 | 20.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.22 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.22 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.22 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 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 | | | | | |
| 2021 | 3.9461 | 40.5309 | 21.5964 | 0.0499 | 18.2141 | 2.0454 | 20.2595 | 9.9699 | 1.8818 | 11.8517 | 0.0000 | 4,937.3779 | 4,937.3779 | 1.3098 | 0.0000 | 4,955.0695 |
| 2022 | 2.1737 | 21.0797 | 19.9549 | 0.0495 | 1.2199 | 0.8247 | 2.0446 | 0.3318 | 0.7760 | 1.1079 | 0.0000 | 4,892.9251 | 4,892.9251 | 0.6985 | 0.0000 | 4,910.3876 |
| 2023 | 1.9804 | 18.6297 | 19.5291 | 0.0487 | 1.2199 | 0.7095 | 1.9294 | 0.3318 | 0.6676 | 0.9994 | 0.0000 | 4,819.9172 | 4,819.9172 | 0.6826 | 0.0000 | 4,836.9806 |
| 2024 | 17.5441 | 18.8742 | 21.4530 | 0.0527 | 1.3842 | 0.6848 | 2.0690 | 0.3754 | 0.6477 | 1.0232 | 0.0000 | 5,202.2855 | 5,202.2855 | 0.6948 | 0.0000 | 5,219.6565 |
| 2025 | 17.4085 | 17.7642 | 21.1650 | 0.0523 | 1.3842 | 0.5895 | 1.9737 | 0.3754 | 0.5575 | 0.9330 | 0.0000 | 5,157.6105 | 5,157.6105 | 0.7155 | 0.0000 | 5,174.8191 |
| **Maximum** | **17.5441** | **40.5309** | **21.5964** | **0.0527** | **18.2141** | **2.0454** | **20.2595** | **9.9699** | **1.8818** | **11.8517** | **0.0000** | **5,202.2855** | **5,202.2855** | **1.3098** | **0.0000** | **5,219.6565** |

## 2.1 Overall Construction (Maximum Daily Emission)

**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 | | | | | |
| 2021 | 3.9461 | 40.5309 | 21.5964 | 0.0499 | 8.2777 | 2.0454 | 10.3231 | 4.5080 | 1.8818 | 6.3898 | 0.0000 | 4,937.3779 | 4,937.3779 | 1.3098 | 0.0000 | 4,955.0695 |
| 2022 | 2.1737 | 21.0797 | 19.9549 | 0.0495 | 1.2199 | 0.8247 | 2.0446 | 0.3318 | 0.7760 | 1.1079 | 0.0000 | 4,892.9251 | 4,892.9251 | 0.6985 | 0.0000 | 4,910.3876 |
| 2023 | 1.9804 | 18.6297 | 19.5291 | 0.0487 | 1.2199 | 0.7095 | 1.9294 | 0.3318 | 0.6676 | 0.9994 | 0.0000 | 4,819.9172 | 4,819.9172 | 0.6826 | 0.0000 | 4,836.9806 |
| 2024 | 17.5441 | 18.8742 | 21.4530 | 0.0527 | 1.3842 | 0.6848 | 2.0690 | 0.3754 | 0.6477 | 1.0232 | 0.0000 | 5,202.2855 | 5,202.2855 | 0.6948 | 0.0000 | 5,219.6565 |
| 2025 | 17.4085 | 17.7642 | 21.1650 | 0.0523 | 1.3842 | 0.5895 | 1.9737 | 0.3754 | 0.5575 | 0.9330 | 0.0000 | 5,157.6105 | 5,157.6105 | 0.7155 | 0.0000 | 5,174.8191 |
| **Maximum** | **17.5441** | **40.5309** | **21.5964** | **0.0527** | **8.2777** | **2.0454** | **10.3231** | **4.5080** | **1.8818** | **6.3898** | **0.0000** | **5,202.2855** | **5,202.2855** | **1.3098** | **0.0000** | **5,219.6565** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **42.42** | **0.00** | **35.14** | **47.98** | **0.00** | **34.32** | **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 | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 2.3334 | 9.0057 | 22.0886 | 0.0873 | 8.0787 | 0.0678 | 8.1464 | 2.1609 | 0.0632 | 2.2240 | | 8,853.4048 | 8,853.4048 | 0.2898 | | 8,860.6495 |
| **Total** | **6.5622** | **9.8522** | **22.8242** | **0.0924** | **8.0787** | **0.1322** | **8.2108** | **2.1609** | **0.1276** | **2.2884** | | **9,869.0228** | **9,869.0228** | **0.3094** | **0.0186** | **9,882.3060** |

### 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 | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 2.3334 | 9.0057 | 22.0886 | 0.0873 | 8.0787 | 0.0678 | 8.1464 | 2.1609 | 0.0632 | 2.2240 | | 8,853.4048 | 8,853.4048 | 0.2898 | | 8,860.6495 |
| **Total** | **6.5622** | **9.8522** | **22.8242** | **0.0924** | **8.0787** | **0.1322** | **8.2108** | **2.1609** | **0.1276** | **2.2884** | | **9,869.0228** | **9,869.0228** | **0.3094** | **0.0186** | **9,882.3060** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Site Preparation | Site Preparation | 1/4/2021 | 3/26/2021 | 5 | 60 | |
| 2 | Grading | Grading | 3/27/2021 | 10/29/2021 | 5 | 155 | |
| 3 | Building Construction | Building Construction | 10/30/2021 | 1/10/2025 | 5 | 835 | |
| 4 | Paving | Paving | 1/13/2025 | 6/13/2025 | 5 | 110 | |
| 5 | Architectural Coating | Architectural Coating | 8/12/2024 | 1/10/2025 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 84**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 244,500; Non-Residential Outdoor: 81,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 104.00 | 54.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 Site Preparation - 2021

**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 | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| **Total** | **3.8882** | **40.4971** | **21.1543** | **0.0380** | **18.0663** | **2.0445** | **20.1107** | **9.9307** | **1.8809** | **11.8116** | | **3,685.6569** | **3,685.6569** | **1.1920** | | **3,715.4573** |

## 3.2 Site Preparation - 2021

### 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 | 0.0579 | 0.0338 | 0.4421 | 1.4300e-003 | 0.1479 | 9.3000e-004 | 0.1488 | 0.0392 | 8.6000e-004 | 0.0401 | | 142.5527 | 142.5527 | 3.1900e-003 | | 142.6324 |
| **Total** | **0.0579** | **0.0338** | **0.4421** | **1.4300e-003** | **0.1479** | **9.3000e-004** | **0.1488** | **0.0392** | **8.6000e-004** | **0.0401** | | **142.5527** | **142.5527** | **3.1900e-003** | | **142.6324** |

### 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 | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| **Total** | **3.8882** | **40.4971** | **21.1543** | **0.0380** | **8.1298** | **2.0445** | **10.1743** | **4.4688** | **1.8809** | **6.3497** | **0.0000** | **3,685.6569** | **3,685.6569** | **1.1920** | | **3,715.4573** |

## 3.2 Site Preparation - 2021

**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 | 0.0579 | 0.0338 | 0.4421 | 1.4300e-003 | 0.1479 | 9.3000e-004 | 0.1488 | 0.0392 | 8.6000e-004 | 0.0401 | | 142.5527 | 142.5527 | 3.1900e-003 | | 142.6324 |
| **Total** | **0.0579** | **0.0338** | **0.4421** | **1.4300e-003** | **0.1479** | **9.3000e-004** | **0.1488** | **0.0392** | **8.6000e-004** | **0.0401** | | **142.5527** | **142.5527** | **3.1900e-003** | | **142.6324** |

## 3.3 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5968 | 0.0000 | 6.5968 | 3.3723 | 0.0000 | 3.3723 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0325 | 33.5437 | 20.6019 | 0.0417 | | 1.4645 | 1.4645 | | 1.3474 | 1.3474 | | 4,038.9400 | 4,038.9400 | 1.3063 | | 4,071.5968 |
| **Total** | **3.0325** | **33.5437** | **20.6019** | **0.0417** | **6.5968** | **1.4645** | **8.0613** | **3.3723** | **1.3474** | **4.7196** | | **4,038.9400** | **4,038.9400** | **1.3063** | | **4,071.5968** |

## 3.3 Grading - 2021

### 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 | 0.0643 | 0.0376 | 0.4913 | 1.5900e-003 | 0.1643 | 1.0300e-003 | 0.1653 | 0.0436 | 9.5000e-004 | 0.0445 | | 158.3919 | 158.3919 | 3.5400e-003 | | 158.4804 |
| **Total** | **0.0643** | **0.0376** | **0.4913** | **1.5900e-003** | **0.1643** | **1.0300e-003** | **0.1653** | **0.0436** | **9.5000e-004** | **0.0445** | | **158.3919** | **158.3919** | **3.5400e-003** | | **158.4804** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9686 | 0.0000 | 2.9686 | 1.5175 | 0.0000 | 1.5175 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0325 | 33.5437 | 20.6019 | 0.0417 | | 1.4645 | 1.4645 | | 1.3474 | 1.3474 | 0.0000 | 4,038.9399 | 4,038.9399 | 1.3063 | | 4,071.5968 |
| **Total** | **3.0325** | **33.5437** | **20.6019** | **0.0417** | **2.9686** | **1.4645** | **4.4331** | **1.5175** | **1.3474** | **2.8649** | **0.0000** | **4,038.9399** | **4,038.9399** | **1.3063** | | **4,071.5968** |

## 3.3 Grading - 2021

**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 | 0.0643 | 0.0376 | 0.4913 | 1.5900e-003 | 0.1643 | 1.0300e-003 | 0.1653 | 0.0436 | 9.5000e-004 | 0.0445 | | 158.3919 | 158.3919 | 3.5400e-003 | | 158.4804 |
| **Total** | **0.0643** | **0.0376** | **0.4913** | **1.5900e-003** | **0.1643** | **1.0300e-003** | **0.1653** | **0.0436** | **9.5000e-004** | **0.0445** | | **158.3919** | **158.3919** | **3.5400e-003** | | **158.4804** |

## 3.4 Building Construction - 2021

**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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| **Total** | **1.9009** | **17.4321** | **16.5752** | **0.0269** | | **0.9586** | **0.9586** | | **0.9013** | **0.9013** | | **2,553.3639** | **2,553.3639** | **0.6160** | | **2,568.7643** |

## 3.4 Building Construction - 2021

### 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 | 0.1675 | 5.5804 | 1.3159 | 0.0147 | 0.3655 | 0.0121 | 0.3776 | 0.1052 | 0.0116 | 0.1168 | | 1,560.3761 | 1,560.3761 | 0.0732 | | 1,562.2070 |
| Worker | 0.3344 | 0.1954 | 2.5546 | 8.2600e-003 | 0.8543 | 5.3800e-003 | 0.8597 | 0.2266 | 4.9500e-003 | 0.2316 | | 823.6379 | 823.6379 | 0.0184 | | 824.0982 |
| **Total** | **0.5019** | **5.7759** | **3.8705** | **0.0230** | **1.2199** | **0.0175** | **1.2373** | **0.3318** | **0.0165** | **0.3484** | | **2,384.0140** | **2,384.0140** | **0.0916** | | **2,386.3052** |

### 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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| **Total** | **1.9009** | **17.4321** | **16.5752** | **0.0269** | | **0.9586** | **0.9586** | | **0.9013** | **0.9013** | **0.0000** | **2,553.3639** | **2,553.3639** | **0.6160** | | **2,568.7643** |

## 3.4 Building Construction - 2021

**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 | 0.1675 | 5.5804 | 1.3159 | 0.0147 | 0.3655 | 0.0121 | 0.3776 | 0.1052 | 0.0116 | 0.1168 | | 1,560.3761 | 1,560.3761 | 0.0732 | | 1,562.2070 |
| Worker | 0.3344 | 0.1954 | 2.5546 | 8.2600e-003 | 0.8543 | 5.3800e-003 | 0.8597 | 0.2266 | 4.9500e-003 | 0.2316 | | 823.6379 | 823.6379 | 0.0184 | | 824.0982 |
| **Total** | **0.5019** | **5.7759** | **3.8705** | **0.0230** | **1.2199** | **0.0175** | **1.2373** | **0.3318** | **0.0165** | **0.3484** | | **2,384.0140** | **2,384.0140** | **0.0916** | | **2,386.3052** |

## 3.4 Building Construction - 2022

**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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.8090** | **0.8090** | | **0.7612** | **0.7612** | | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

## 3.4 Building Construction - 2022

### 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 | 0.1562 | 5.2888 | 1.2376 | 0.0146 | 0.3655 | 0.0105 | 0.3760 | 0.1052 | 0.0100 | 0.1153 | | 1,545.1803 | 1,545.1803 | 0.0700 | | 1,546.9309 |
| Worker | 0.3113 | 0.1753 | 2.3539 | 7.9600e-003 | 0.8543 | 5.2500e-003 | 0.8596 | 0.2266 | 4.8400e-003 | 0.2314 | | 793.4112 | 793.4112 | 0.0165 | | 793.8245 |
| **Total** | **0.4674** | **5.4641** | **3.5915** | **0.0225** | **1.2199** | **0.0157** | **1.2356** | **0.3318** | **0.0149** | **0.3467** | | **2,338.5915** | **2,338.5915** | **0.0866** | | **2,340.7554** |

### 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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.8090** | **0.8090** | | **0.7612** | **0.7612** | **0.0000** | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

## 3.4 Building Construction - 2022

**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 | 0.1562 | 5.2888 | 1.2376 | 0.0146 | 0.3655 | 0.0105 | 0.3760 | 0.1052 | 0.0100 | 0.1153 | | 1,545.1803 | 1,545.1803 | 0.0700 | | 1,546.9309 |
| Worker | 0.3113 | 0.1753 | 2.3539 | 7.9600e-003 | 0.8543 | 5.2500e-003 | 0.8596 | 0.2266 | 4.8400e-003 | 0.2314 | | 793.4112 | 793.4112 | 0.0165 | | 793.8245 |
| **Total** | **0.4674** | **5.4641** | **3.5915** | **0.0225** | **1.2199** | **0.0157** | **1.2356** | **0.3318** | **0.0149** | **0.3467** | | **2,338.5915** | **2,338.5915** | **0.0866** | | **2,340.7554** |

## 3.4 Building Construction - 2023

**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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

## 3.4 Building Construction - 2023

### 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 | 0.1171 | 4.0871 | 1.1141 | 0.0142 | 0.3656 | 4.6500e-003 | 0.3702 | 0.1052 | 4.4500e-003 | 0.1097 | | 1,501.7125 | 1,501.7125 | 0.0599 | | 1,503.2087 |
| Worker | 0.2906 | 0.1577 | 2.1710 | 7.6500e-003 | 0.8543 | 5.1400e-003 | 0.8595 | 0.2266 | 4.7400e-003 | 0.2313 | | 762.9947 | 762.9947 | 0.0149 | | 763.3659 |
| **Total** | **0.4076** | **4.2448** | **3.2851** | **0.0218** | **1.2199** | **9.7900e-003** | **1.2297** | **0.3318** | **9.1900e-003** | **0.3410** | | **2,264.7073** | **2,264.7073** | **0.0747** | | **2,266.5746** |

### 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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

## 3.4 Building Construction - 2023

**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 | 0.1171 | 4.0871 | 1.1141 | 0.0142 | 0.3656 | 4.6500e-003 | 0.3702 | 0.1052 | 4.4500e-003 | 0.1097 | | 1,501.7125 | 1,501.7125 | 0.0599 | | 1,503.2087 |
| Worker | 0.2906 | 0.1577 | 2.1710 | 7.6500e-003 | 0.8543 | 5.1400e-003 | 0.8595 | 0.2266 | 4.7400e-003 | 0.2313 | | 762.9947 | 762.9947 | 0.0149 | | 763.3659 |
| **Total** | **0.4076** | **4.2448** | **3.2851** | **0.0218** | **1.2199** | **9.7900e-003** | **1.2297** | **0.3318** | **9.1900e-003** | **0.3410** | | **2,264.7073** | **2,264.7073** | **0.0747** | | **2,266.5746** |

## 3.4 Building Construction - 2024

**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 | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

## 3.4 Building Construction - 2024

### 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 | 0.1133 | 4.0419 | 1.0734 | 0.0141 | 0.3656 | 4.5700e-003 | 0.3701 | 0.1052 | 4.3700e-003 | 0.1096 | | 1,491.4545 | 1,491.4545 | 0.0587 | | 1,492.9214 |
| Worker | 0.2726 | 0.1424 | 2.0151 | 7.3500e-003 | 0.8543 | 5.0400e-003 | 0.8594 | 0.2266 | 4.6400e-003 | 0.2313 | | 732.7673 | 732.7673 | 0.0134 | | 733.1020 |
| **Total** | **0.3858** | **4.1843** | **3.0885** | **0.0214** | **1.2199** | **9.6100e-003** | **1.2295** | **0.3319** | **9.0100e-003** | **0.3409** | | **2,224.2218** | **2,224.2218** | **0.0721** | | **2,226.0234** |

### 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 | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | **0.0000** | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

## 3.4 Building Construction - 2024

**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 | 0.1133 | 4.0419 | 1.0734 | 0.0141 | 0.3656 | 4.5700e-003 | 0.3701 | 0.1052 | 4.3700e-003 | 0.1096 | | 1,491.4545 | 1,491.4545 | 0.0587 | | 1,492.9214 |
| Worker | 0.2726 | 0.1424 | 2.0151 | 7.3500e-003 | 0.8543 | 5.0400e-003 | 0.8594 | 0.2266 | 4.6400e-003 | 0.2313 | | 732.7673 | 732.7673 | 0.0134 | | 733.1020 |
| **Total** | **0.3858** | **4.1843** | **3.0885** | **0.0214** | **1.2199** | **9.6100e-003** | **1.2295** | **0.3319** | **9.0100e-003** | **0.3409** | | **2,224.2218** | **2,224.2218** | **0.0721** | | **2,226.0234** |

## 3.4 Building Construction - 2025

**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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

## 3.4 Building Construction - 2025

### 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 | 0.1100 | 3.9946 | 1.0424 | 0.0140 | 0.3656 | 4.4900e-003 | 0.3701 | 0.1052 | 4.2900e-003 | 0.1095 | | 1,481.6021 | 1,481.6021 | 0.0576 | | 1,483.0413 |
| Worker | 0.2572 | 0.1295 | 1.8693 | 7.0500e-003 | 0.8543 | 4.9700e-003 | 0.8593 | 0.2266 | 4.5800e-003 | 0.2312 | | 702.9108 | 702.9108 | 0.0121 | | 703.2143 |
| **Total** | **0.3673** | **4.1241** | **2.9117** | **0.0210** | **1.2199** | **9.4600e-003** | **1.2294** | **0.3319** | **8.8700e-003** | **0.3407** | | **2,184.5129** | **2,184.5129** | **0.0697** | | **2,186.2556** |

### 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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

## 3.4 Building Construction - 2025

**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 | 0.1100 | 3.9946 | 1.0424 | 0.0140 | 0.3656 | 4.4900e-003 | 0.3701 | 0.1052 | 4.2900e-003 | 0.1095 | | 1,481.6021 | 1,481.6021 | 0.0576 | | 1,483.0413 |
| Worker | 0.2572 | 0.1295 | 1.8693 | 7.0500e-003 | 0.8543 | 4.9700e-003 | 0.8593 | 0.2266 | 4.5800e-003 | 0.2312 | | 702.9108 | 702.9108 | 0.0121 | | 703.2143 |
| **Total** | **0.3673** | **4.1241** | **2.9117** | **0.0210** | **1.2199** | **9.4600e-003** | **1.2294** | **0.3319** | **8.8700e-003** | **0.3407** | | **2,184.5129** | **2,184.5129** | **0.0697** | | **2,186.2556** |

## 3.5 Paving - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9152** | **8.5816** | **14.5780** | **0.0228** | | **0.4185** | **0.4185** | | **0.3850** | **0.3850** | | **2,206.7452** | **2,206.7452** | **0.7137** | | **2,224.5878** |

## 3.5 Paving - 2025

### 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 | 0.0371 | 0.0187 | 0.2696 | 1.0200e-003 | 0.1232 | 7.2000e-004 | 0.1239 | 0.0327 | 6.6000e-004 | 0.0333 | | 101.3814 | 101.3814 | 1.7500e-003 | | 101.4251 |
| **Total** | **0.0371** | **0.0187** | **0.2696** | **1.0200e-003** | **0.1232** | **7.2000e-004** | **0.1239** | **0.0327** | **6.6000e-004** | **0.0333** | | **101.3814** | **101.3814** | **1.7500e-003** | | **101.4251** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9152** | **8.5816** | **14.5780** | **0.0228** | | **0.4185** | **0.4185** | | **0.3850** | **0.3850** | **0.0000** | **2,206.7452** | **2,206.7452** | **0.7137** | | **2,224.5878** |

## 3.5 Paving - 2025

**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 | 0.0371 | 0.0187 | 0.2696 | 1.0200e-003 | 0.1232 | 7.2000e-004 | 0.1239 | 0.0327 | 6.6000e-004 | 0.0333 | | 101.3814 | 101.3814 | 1.7500e-003 | | 101.4251 |
| **Total** | **0.0371** | **0.0187** | **0.2696** | **1.0200e-003** | **0.1232** | **7.2000e-004** | **0.1239** | **0.0327** | **6.6000e-004** | **0.0333** | | **101.3814** | **101.3814** | **1.7500e-003** | | **101.4251** |

## 3.6 Architectural Coating - 2024

**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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **15.6343** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

## 3.6 Architectural Coating - 2024

### 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 | 0.0524 | 0.0274 | 0.3875 | 1.4100e-003 | 0.1643 | 9.7000e-004 | 0.1653 | 0.0436 | 8.9000e-004 | 0.0445 | | 140.9168 | 140.9168 | 2.5700e-003 | | 140.9812 |
| **Total** | **0.0524** | **0.0274** | **0.3875** | **1.4100e-003** | **0.1643** | **9.7000e-004** | **0.1653** | **0.0436** | **8.9000e-004** | **0.0445** | | **140.9168** | **140.9168** | **2.5700e-003** | | **140.9812** |

### 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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **15.6343** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | **0.0000** | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

## 3.6 Architectural Coating - 2024

**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 | 0.0524 | 0.0274 | 0.3875 | 1.4100e-003 | 0.1643 | 9.7000e-004 | 0.1653 | 0.0436 | 8.9000e-004 | 0.0445 | | 140.9168 | 140.9168 | 2.5700e-003 | | 140.9812 |
| **Total** | **0.0524** | **0.0274** | **0.3875** | **1.4100e-003** | **0.1643** | **9.7000e-004** | **0.1653** | **0.0436** | **8.9000e-004** | **0.0445** | | **140.9168** | **140.9168** | **2.5700e-003** | | **140.9812** |

## 3.6 Architectural Coating - 2025

**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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **15.6244** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

## 3.6 Architectural Coating - 2025

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0495 | 0.0249 | 0.3595 | 1.3500e-003 | 0.1643 | 9.6000e-004 | 0.1653 | 0.0436 | 8.8000e-004 | 0.0445 | | 135.1752 | 135.1752 | 2.3300e-003 | | 135.2335 |
| **Total** | **0.0495** | **0.0249** | **0.3595** | **1.3500e-003** | **0.1643** | **9.6000e-004** | **0.1653** | **0.0436** | **8.8000e-004** | **0.0445** | | **135.1752** | **135.1752** | **2.3300e-003** | | **135.2335** |

### 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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **15.6244** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

### 3.6 Architectural Coating - 2025

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0495 | 0.0249 | 0.3595 | 1.3500e-003 | 0.1643 | 9.6000e-004 | 0.1653 | 0.0436 | 8.8000e-004 | 0.0445 | | 135.1752 | 135.1752 | 2.3300e-003 | | 135.2335 |
| **Total** | **0.0495** | **0.0249** | **0.3595** | **1.3500e-003** | **0.1643** | **9.6000e-004** | **0.1653** | **0.0436** | **8.8000e-004** | **0.0445** | | **135.1752** | **135.1752** | **2.3300e-003** | | **135.2335** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.3334 | 9.0057 | 22.0886 | 0.0873 | 8.0787 | 0.0678 | 8.1464 | 2.1609 | 0.0632 | 2.2240 | | 8,853.4048 | 8,853.4048 | 0.2898 | | 8,860.6495 |
| Unmitigated | 2.3334 | 9.0057 | 22.0886 | 0.0873 | 8.0787 | 0.0678 | 8.1464 | 2.1609 | 0.0632 | 2.2240 | | 8,853.4048 | 8,853.4048 | 0.2898 | | 8,860.6495 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 337.60 | 337.60 | 337.60 | 720,726 | 720,726 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,901.08 | 1,901.08 | 1,901.08 | 3,803,770 | 3,803,770 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| General Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| Medical Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| NaturalGas Unmitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 264.795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8367.51 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0.264795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8.36751 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Unmitigated | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |

## 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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2800e-003 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0248** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

### 6.2 Area by SubCategory

**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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2800e-003 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0248** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 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

# VA Alameda

**Bay Area AQMD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2025 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - Reduced building construction to coincide with the project's operational year. Architectural coating was changed to overlap with building construction.

Off-road Equipment - minimal grading required

Trips and VMT - few trips required for cemetery

Grading - Total site area changed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblConstructionPhase | NumDays | 1,550.00 | 835.00 |
| tblConstructionPhase | PhaseEndDate | 10/8/2027 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 8/11/2028 | 1/10/2025 |
| tblConstructionPhase | PhaseEndDate | 3/10/2028 | 6/13/2025 |
| tblConstructionPhase | PhaseStartDate | 3/11/2028 | 8/12/2024 |
| tblConstructionPhase | PhaseStartDate | 10/9/2027 | 1/13/2025 |
| tblGrading | AcresOfGrading | 232.50 | 84.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblTripsAndVMT | VendorTripNumber | 598.00 | 54.00 |
| tblTripsAndVMT | WorkerTripNumber | 15.00 | 20.00 |
| tblTripsAndVMT | WorkerTripNumber | 1,516.00 | 104.00 |
| tblTripsAndVMT | WorkerTripNumber | 303.00 | 20.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.22 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.22 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.22 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 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 | | | | | |
| 2021 | 3.9495 | 40.5389 | 21.5679 | 0.0489 | 18.2141 | 2.0454 | 20.2595 | 9.9699 | 1.8818 | 11.8517 | 0.0000 | 4,832.8686 | 4,832.8686 | 1.3096 | 0.0000 | 4,850.6789 |
| 2022 | 2.2023 | 21.1608 | 19.9785 | 0.0485 | 1.2199 | 0.8251 | 2.0450 | 0.3318 | 0.7764 | 1.1082 | 0.0000 | 4,790.9674 | 4,790.9674 | 0.7030 | 0.0000 | 4,808.5424 |
| 2023 | 2.0068 | 18.6865 | 19.5209 | 0.0478 | 1.2199 | 0.7097 | 1.9296 | 0.3318 | 0.6678 | 0.9996 | 0.0000 | 4,721.8798 | 4,721.8798 | 0.6859 | 0.0000 | 4,739.0262 |
| 2024 | 17.5739 | 18.9333 | 21.4141 | 0.0517 | 1.3842 | 0.6850 | 2.0692 | 0.3754 | 0.6479 | 1.0233 | 0.0000 | 5,096.1152 | 5,096.1152 | 0.6979 | 0.0000 | 5,113.5617 |
| 2025 | 17.4379 | 17.8188 | 21.1292 | 0.0513 | 1.3842 | 0.5897 | 1.9739 | 0.3754 | 0.5577 | 0.9331 | 0.0000 | 5,054.7721 | 5,054.7721 | 0.7153 | 0.0000 | 5,072.0543 |
| **Maximum** | **17.5739** | **40.5389** | **21.5679** | **0.0517** | **18.2141** | **2.0454** | **20.2595** | **9.9699** | **1.8818** | **11.8517** | **0.0000** | **5,096.1152** | **5,096.1152** | **1.3096** | **0.0000** | **5,113.5617** |

## 2.1 Overall Construction (Maximum Daily Emission)

**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 | | | | | |
| 2021 | 3.9495 | 40.5389 | 21.5679 | 0.0489 | 8.2777 | 2.0454 | 10.3231 | 4.5080 | 1.8818 | 6.3898 | 0.0000 | 4,832.8686 | 4,832.8686 | 1.3096 | 0.0000 | 4,850.6789 |
| 2022 | 2.2023 | 21.1608 | 19.9785 | 0.0485 | 1.2199 | 0.8251 | 2.0450 | 0.3318 | 0.7764 | 1.1082 | 0.0000 | 4,790.9674 | 4,790.9674 | 0.7030 | 0.0000 | 4,808.5424 |
| 2023 | 2.0068 | 18.6865 | 19.5209 | 0.0478 | 1.2199 | 0.7097 | 1.9296 | 0.3318 | 0.6678 | 0.9996 | 0.0000 | 4,721.8798 | 4,721.8798 | 0.6859 | 0.0000 | 4,739.0261 |
| 2024 | 17.5739 | 18.9333 | 21.4141 | 0.0517 | 1.3842 | 0.6850 | 2.0692 | 0.3754 | 0.6479 | 1.0233 | 0.0000 | 5,096.1152 | 5,096.1152 | 0.6979 | 0.0000 | 5,113.5617 |
| 2025 | 17.4379 | 17.8188 | 21.1292 | 0.0513 | 1.3842 | 0.5897 | 1.9739 | 0.3754 | 0.5577 | 0.9331 | 0.0000 | 5,054.7721 | 5,054.7721 | 0.7153 | 0.0000 | 5,072.0543 |
| **Maximum** | **17.5739** | **40.5389** | **21.5679** | **0.0517** | **8.2777** | **2.0454** | **10.3231** | **4.5080** | **1.8818** | **6.3898** | **0.0000** | **5,096.1152** | **5,096.1152** | **1.3096** | **0.0000** | **5,113.5617** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Percent Reduction** | **0.00** | **0.00** | **0.00** | **0.00** | **42.42** | **0.00** | **35.14** | **47.98** | **0.00** | **34.32** | **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 | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.9861 | 9.3745 | 22.4223 | 0.0818 | 8.0787 | 0.0681 | 8.1467 | 2.1609 | 0.0635 | 2.2243 | | 8,296.5830 | 8,296.5830 | 0.2976 | | 8,304.0236 |
| **Total** | **6.2150** | **10.2210** | **23.1580** | **0.0869** | **8.0787** | **0.1325** | **8.2112** | **2.1609** | **0.1279** | **2.2888** | | **9,312.2011** | **9,312.2011** | **0.3172** | **0.0186** | **9,325.6801** |

### 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 | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.9861 | 9.3745 | 22.4223 | 0.0818 | 8.0787 | 0.0681 | 8.1467 | 2.1609 | 0.0635 | 2.2243 | | 8,296.5830 | 8,296.5830 | 0.2976 | | 8,304.0236 |
| **Total** | **6.2150** | **10.2210** | **23.1580** | **0.0869** | **8.0787** | **0.1325** | **8.2112** | **2.1609** | **0.1279** | **2.2888** | | **9,312.2011** | **9,312.2011** | **0.3172** | **0.0186** | **9,325.6801** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Site Preparation | Site Preparation | 1/4/2021 | 3/26/2021 | 5 | 60 | |
| 2 | Grading | Grading | 3/27/2021 | 10/29/2021 | 5 | 155 | |
| 3 | Building Construction | Building Construction | 10/30/2021 | 1/10/2025 | 5 | 835 | |
| 4 | Paving | Paving | 1/13/2025 | 6/13/2025 | 5 | 110 | |
| 5 | Architectural Coating | Architectural Coating | 8/12/2024 | 1/10/2025 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 84**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 244,500; Non-Residential Outdoor: 81,500; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

VA Alameda - Bay Area AQMD Air District, Winter

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| 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 | Scrapers | 1 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| 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 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 104.00 | 54.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 Site Preparation - 2021

**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 | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| **Total** | **3.8882** | **40.4971** | **21.1543** | **0.0380** | **18.0663** | **2.0445** | **20.1107** | **9.9307** | **1.8809** | **11.8116** | | **3,685.6569** | **3,685.6569** | **1.1920** | | **3,715.4573** |

## 3.2 Site Preparation - 2021

### 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 | 0.0613 | 0.0418 | 0.4137 | 1.3200e-003 | 0.1479 | 9.3000e-004 | 0.1488 | 0.0392 | 8.6000e-004 | 0.0401 | | 131.3166 | 131.3166 | 2.9700e-003 | | 131.3909 |
| **Total** | **0.0613** | **0.0418** | **0.4137** | **1.3200e-003** | **0.1479** | **9.3000e-004** | **0.1488** | **0.0392** | **8.6000e-004** | **0.0401** | | **131.3166** | **131.3166** | **2.9700e-003** | | **131.3909** |

### 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 | 3.8882 | 40.4971 | 21.1543 | 0.0380 | | 2.0445 | 2.0445 | | 1.8809 | 1.8809 | 0.0000 | 3,685.6569 | 3,685.6569 | 1.1920 | | 3,715.4573 |
| **Total** | **3.8882** | **40.4971** | **21.1543** | **0.0380** | **8.1298** | **2.0445** | **10.1743** | **4.4688** | **1.8809** | **6.3497** | **0.0000** | **3,685.6569** | **3,685.6569** | **1.1920** | | **3,715.4573** |

## 3.2 Site Preparation - 2021

**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 | 0.0613 | 0.0418 | 0.4137 | 1.3200e-003 | 0.1479 | 9.3000e-004 | 0.1488 | 0.0392 | 8.6000e-004 | 0.0401 | | 131.3166 | 131.3166 | 2.9700e-003 | | 131.3909 |
| **Total** | **0.0613** | **0.0418** | **0.4137** | **1.3200e-003** | **0.1479** | **9.3000e-004** | **0.1488** | **0.0392** | **8.6000e-004** | **0.0401** | | **131.3166** | **131.3166** | **2.9700e-003** | | **131.3909** |

## 3.3 Grading - 2021

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5968 | 0.0000 | 6.5968 | 3.3723 | 0.0000 | 3.3723 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0325 | 33.5437 | 20.6019 | 0.0417 | | 1.4645 | 1.4645 | | 1.3474 | 1.3474 | | 4,038.9400 | 4,038.9400 | 1.3063 | | 4,071.5968 |
| **Total** | **3.0325** | **33.5437** | **20.6019** | **0.0417** | **6.5968** | **1.4645** | **8.0613** | **3.3723** | **1.3474** | **4.7196** | | **4,038.9400** | **4,038.9400** | **1.3063** | | **4,071.5968** |

## 3.3 Grading - 2021

### 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 | 0.0681 | 0.0464 | 0.4596 | 1.4600e-003 | 0.1643 | 1.0300e-003 | 0.1653 | 0.0436 | 9.5000e-004 | 0.0445 | | 145.9073 | 145.9073 | 3.3000e-003 | | 145.9899 |
| **Total** | **0.0681** | **0.0464** | **0.4596** | **1.4600e-003** | **0.1643** | **1.0300e-003** | **0.1653** | **0.0436** | **9.5000e-004** | **0.0445** | | **145.9073** | **145.9073** | **3.3000e-003** | | **145.9899** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.9686 | 0.0000 | 2.9686 | 1.5175 | 0.0000 | 1.5175 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.0325 | 33.5437 | 20.6019 | 0.0417 | | 1.4645 | 1.4645 | | 1.3474 | 1.3474 | 0.0000 | 4,038.9399 | 4,038.9399 | 1.3063 | | 4,071.5968 |
| **Total** | **3.0325** | **33.5437** | **20.6019** | **0.0417** | **2.9686** | **1.4645** | **4.4331** | **1.5175** | **1.3474** | **2.8649** | **0.0000** | **4,038.9399** | **4,038.9399** | **1.3063** | | **4,071.5968** |

## 3.3 Grading - 2021

**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 | 0.0681 | 0.0464 | 0.4596 | 1.4600e-003 | 0.1643 | 1.0300e-003 | 0.1653 | 0.0436 | 9.5000e-004 | 0.0445 | | 145.9073 | 145.9073 | 3.3000e-003 | | 145.9899 |
| **Total** | **0.0681** | **0.0464** | **0.4596** | **1.4600e-003** | **0.1643** | **1.0300e-003** | **0.1653** | **0.0436** | **9.5000e-004** | **0.0445** | | **145.9073** | **145.9073** | **3.3000e-003** | | **145.9899** |

## 3.4 Building Construction - 2021

**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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| **Total** | **1.9009** | **17.4321** | **16.5752** | **0.0269** | | **0.9586** | **0.9586** | | **0.9013** | **0.9013** | | **2,553.3639** | **2,553.3639** | **0.6160** | | **2,568.7643** |

## 3.4 Building Construction - 2021

### 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 | 0.1774 | 5.6284 | 1.5125 | 0.0144 | 0.3655 | 0.0125 | 0.3780 | 0.1052 | 0.0120 | 0.1172 | | 1,520.7866 | 1,520.7866 | 0.0792 | | 1,522.7674 |
| Worker | 0.3543 | 0.2414 | 2.3900 | 7.6100e-003 | 0.8543 | 5.3800e-003 | 0.8597 | 0.2266 | 4.9500e-003 | 0.2316 | | 758.7181 | 758.7181 | 0.0172 | | 759.1473 |
| **Total** | **0.5316** | **5.8698** | **3.9026** | **0.0220** | **1.2199** | **0.0179** | **1.2378** | **0.3318** | **0.0169** | **0.3488** | | **2,279.5047** | **2,279.5047** | **0.0964** | | **2,281.9147** |

### 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 | 1.9009 | 17.4321 | 16.5752 | 0.0269 | | 0.9586 | 0.9586 | | 0.9013 | 0.9013 | 0.0000 | 2,553.3639 | 2,553.3639 | 0.6160 | | 2,568.7643 |
| **Total** | **1.9009** | **17.4321** | **16.5752** | **0.0269** | | **0.9586** | **0.9586** | | **0.9013** | **0.9013** | **0.0000** | **2,553.3639** | **2,553.3639** | **0.6160** | | **2,568.7643** |

## 3.4 Building Construction - 2021

**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 | 0.1774 | 5.6284 | 1.5125 | 0.0144 | 0.3655 | 0.0125 | 0.3780 | 0.1052 | 0.0120 | 0.1172 | | 1,520.7866 | 1,520.7866 | 0.0792 | | 1,522.7674 |
| Worker | 0.3543 | 0.2414 | 2.3900 | 7.6100e-003 | 0.8543 | 5.3800e-003 | 0.8597 | 0.2266 | 4.9500e-003 | 0.2316 | | 758.7181 | 758.7181 | 0.0172 | | 759.1473 |
| **Total** | **0.5316** | **5.8698** | **3.9026** | **0.0220** | **1.2199** | **0.0179** | **1.2378** | **0.3318** | **0.0169** | **0.3488** | | **2,279.5047** | **2,279.5047** | **0.0964** | | **2,281.9147** |

## 3.4 Building Construction - 2022

**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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.8090** | **0.8090** | | **0.7612** | **0.7612** | | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

## 3.4 Building Construction - 2022

### 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 | 0.1654 | 5.3287 | 1.4218 | 0.0142 | 0.3655 | 0.0109 | 0.3764 | 0.1052 | 0.0104 | 0.1156 | | 1,505.7301 | 1,505.7301 | 0.0757 | | 1,507.6222 |
| Worker | 0.3306 | 0.2164 | 2.1932 | 7.3300e-003 | 0.8543 | 5.2500e-003 | 0.8596 | 0.2266 | 4.8400e-003 | 0.2314 | | 730.9037 | 730.9037 | 0.0154 | | 731.2880 |
| **Total** | **0.4961** | **5.5451** | **3.6151** | **0.0215** | **1.2199** | **0.0161** | **1.2360** | **0.3318** | **0.0152** | **0.3471** | | **2,236.6338** | **2,236.6338** | **0.0911** | | **2,238.9102** |

### 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 | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| **Total** | **1.7062** | **15.6156** | **16.3634** | **0.0269** | | **0.8090** | **0.8090** | | **0.7612** | **0.7612** | **0.0000** | **2,554.3336** | **2,554.3336** | **0.6120** | | **2,569.6322** |

## 3.4 Building Construction - 2022

**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 | 0.1654 | 5.3287 | 1.4218 | 0.0142 | 0.3655 | 0.0109 | 0.3764 | 0.1052 | 0.0104 | 0.1156 | | 1,505.7301 | 1,505.7301 | 0.0757 | | 1,507.6222 |
| Worker | 0.3306 | 0.2164 | 2.1932 | 7.3300e-003 | 0.8543 | 5.2500e-003 | 0.8596 | 0.2266 | 4.8400e-003 | 0.2314 | | 730.9037 | 730.9037 | 0.0154 | | 731.2880 |
| **Total** | **0.4961** | **5.5451** | **3.6151** | **0.0215** | **1.2199** | **0.0161** | **1.2360** | **0.3318** | **0.0152** | **0.3471** | | **2,236.6338** | **2,236.6338** | **0.0911** | | **2,238.9102** |

## 3.4 Building Construction - 2023

**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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

## 3.4 Building Construction - 2023

### 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 | 0.1244 | 4.1070 | 1.2626 | 0.0138 | 0.3656 | 4.8600e-003 | 0.3704 | 0.1052 | 4.6400e-003 | 0.1099 | | 1,463.7566 | 1,463.7566 | 0.0643 | | 1,465.3630 |
| Worker | 0.3097 | 0.1946 | 2.0143 | 7.0500e-003 | 0.8543 | 5.1400e-003 | 0.8595 | 0.2266 | 4.7400e-003 | 0.2313 | | 702.9133 | 702.9133 | 0.0138 | | 703.2571 |
| **Total** | **0.4341** | **4.3016** | **3.2769** | **0.0209** | **1.2199** | **1.0000e-002** | **1.2299** | **0.3318** | **9.3800e-003** | **0.3412** | | **2,166.6699** | **2,166.6699** | **0.0780** | | **2,168.6201** |

### 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 | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| **Total** | **1.5728** | **14.3849** | **16.2440** | **0.0269** | | **0.6997** | **0.6997** | | **0.6584** | **0.6584** | **0.0000** | **2,555.2099** | **2,555.2099** | **0.6079** | | **2,570.4061** |

## 3.4 Building Construction - 2023

**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 | 0.1244 | 4.1070 | 1.2626 | 0.0138 | 0.3656 | 4.8600e-003 | 0.3704 | 0.1052 | 4.6400e-003 | 0.1099 | | 1,463.7566 | 1,463.7566 | 0.0643 | | 1,465.3630 |
| Worker | 0.3097 | 0.1946 | 2.0143 | 7.0500e-003 | 0.8543 | 5.1400e-003 | 0.8595 | 0.2266 | 4.7400e-003 | 0.2313 | | 702.9133 | 702.9133 | 0.0138 | | 703.2571 |
| **Total** | **0.4341** | **4.3016** | **3.2769** | **0.0209** | **1.2199** | **1.0000e-002** | **1.2299** | **0.3318** | **9.3800e-003** | **0.3412** | | **2,166.6699** | **2,166.6699** | **0.0780** | | **2,168.6201** |

## 3.4 Building Construction - 2024

**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 | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

## 3.4 Building Construction - 2024

### 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 | 0.1202 | 4.0612 | 1.2151 | 0.0137 | 0.3656 | 4.7600e-003 | 0.3703 | 0.1052 | 4.5500e-003 | 0.1098 | | 1,454.0468 | 1,454.0468 | 0.0629 | | 1,455.6198 |
| Worker | 0.2917 | 0.1757 | 1.8637 | 6.7700e-003 | 0.8543 | 5.0400e-003 | 0.8594 | 0.2266 | 4.6400e-003 | 0.2313 | | 675.0953 | 675.0953 | 0.0124 | | 675.4045 |
| **Total** | **0.4119** | **4.2369** | **3.0788** | **0.0205** | **1.2199** | **9.8000e-003** | **1.2297** | **0.3319** | **9.1900e-003** | **0.3410** | | **2,129.1422** | **2,129.1422** | **0.0753** | | **2,131.0243** |

### 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 | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| **Total** | **1.4716** | **13.4438** | **16.1668** | **0.0270** | | **0.6133** | **0.6133** | | **0.5769** | **0.5769** | **0.0000** | **2,555.6989** | **2,555.6989** | **0.6044** | | **2,570.8077** |

## 3.4 Building Construction - 2024

**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 | 0.1202 | 4.0612 | 1.2151 | 0.0137 | 0.3656 | 4.7600e-003 | 0.3703 | 0.1052 | 4.5500e-003 | 0.1098 | | 1,454.0468 | 1,454.0468 | 0.0629 | | 1,455.6198 |
| Worker | 0.2917 | 0.1757 | 1.8637 | 6.7700e-003 | 0.8543 | 5.0400e-003 | 0.8594 | 0.2266 | 4.6400e-003 | 0.2313 | | 675.0953 | 675.0953 | 0.0124 | | 675.4045 |
| **Total** | **0.4119** | **4.2369** | **3.0788** | **0.0205** | **1.2199** | **9.8000e-003** | **1.2297** | **0.3319** | **9.1900e-003** | **0.3410** | | **2,129.1422** | **2,129.1422** | **0.0753** | | **2,131.0243** |

## 3.4 Building Construction - 2025

**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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

## 3.4 Building Construction - 2025

### 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 | 0.1167 | 4.0132 | 1.1789 | 0.0136 | 0.3656 | 4.6600e-003 | 0.3702 | 0.1052 | 4.4500e-003 | 0.1097 | | 1,444.6904 | 1,444.6904 | 0.0617 | | 1,446.2315 |
| Worker | 0.2763 | 0.1597 | 1.7248 | 6.4900e-003 | 0.8543 | 4.9700e-003 | 0.8593 | 0.2266 | 4.5800e-003 | 0.2312 | | 647.6175 | 647.6175 | 0.0112 | | 647.8973 |
| **Total** | **0.3930** | **4.1729** | **2.9037** | **0.0201** | **1.2199** | **9.6300e-003** | **1.2296** | **0.3319** | **9.0300e-003** | **0.3409** | | **2,092.3079** | **2,092.3079** | **0.0728** | | **2,094.1288** |

### 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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.4744 | 2,556.4744 | 0.6010 | | 2,571.4981 |
| **Total** | **1.3674** | **12.4697** | **16.0847** | **0.0270** | | **0.5276** | **0.5276** | | **0.4963** | **0.4963** | **0.0000** | **2,556.4744** | **2,556.4744** | **0.6010** | | **2,571.4981** |

## 3.4 Building Construction - 2025

**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 | 0.1167 | 4.0132 | 1.1789 | 0.0136 | 0.3656 | 4.6600e-003 | 0.3702 | 0.1052 | 4.4500e-003 | 0.1097 | | 1,444.6904 | 1,444.6904 | 0.0617 | | 1,446.2315 |
| Worker | 0.2763 | 0.1597 | 1.7248 | 6.4900e-003 | 0.8543 | 4.9700e-003 | 0.8593 | 0.2266 | 4.5800e-003 | 0.2312 | | 647.6175 | 647.6175 | 0.0112 | | 647.8973 |
| **Total** | **0.3930** | **4.1729** | **2.9037** | **0.0201** | **1.2199** | **9.6300e-003** | **1.2296** | **0.3319** | **9.0300e-003** | **0.3409** | | **2,092.3079** | **2,092.3079** | **0.0728** | | **2,094.1288** |

## 3.5 Paving - 2025

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9152** | **8.5816** | **14.5780** | **0.0228** | | **0.4185** | **0.4185** | | **0.3850** | **0.3850** | | **2,206.7452** | **2,206.7452** | **0.7137** | | **2,224.5878** |

## 3.5 Paving - 2025

### 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 | 0.0399 | 0.0230 | 0.2488 | 9.4000e-004 | 0.1232 | 7.2000e-004 | 0.1239 | 0.0327 | 6.6000e-004 | 0.0333 | | 93.4064 | 93.4064 | 1.6100e-003 | | 93.4467 |
| **Total** | **0.0399** | **0.0230** | **0.2488** | **9.4000e-004** | **0.1232** | **7.2000e-004** | **0.1239** | **0.0327** | **6.6000e-004** | **0.0333** | | **93.4064** | **93.4064** | **1.6100e-003** | | **93.4467** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | 0.0000 | 2,206.7452 | 2,206.7452 | 0.7137 | | 2,224.5878 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.9152** | **8.5816** | **14.5780** | **0.0228** | | **0.4185** | **0.4185** | | **0.3850** | **0.3850** | **0.0000** | **2,206.7452** | **2,206.7452** | **0.7137** | | **2,224.5878** |

## 3.5 Paving - 2025

**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 | 0.0399 | 0.0230 | 0.2488 | 9.4000e-004 | 0.1232 | 7.2000e-004 | 0.1239 | 0.0327 | 6.6000e-004 | 0.0333 | | 93.4064 | 93.4064 | 1.6100e-003 | | 93.4467 |
| **Total** | **0.0399** | **0.0230** | **0.2488** | **9.4000e-004** | **0.1232** | **7.2000e-004** | **0.1239** | **0.0327** | **6.6000e-004** | **0.0333** | | **93.4064** | **93.4064** | **1.6100e-003** | | **93.4467** |

## 3.6 Architectural Coating - 2024

**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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **15.6343** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

## 3.6 Architectural Coating - 2024

### 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 | 0.0561 | 0.0338 | 0.3584 | 1.3000e-003 | 0.1643 | 9.7000e-004 | 0.1653 | 0.0436 | 8.9000e-004 | 0.0445 | | 129.8260 | 129.8260 | 2.3800e-003 | | 129.8855 |
| **Total** | **0.0561** | **0.0338** | **0.3584** | **1.3000e-003** | **0.1643** | **9.7000e-004** | **0.1653** | **0.0436** | **8.9000e-004** | **0.0445** | | **129.8260** | **129.8260** | **2.3800e-003** | | **129.8855** |

### 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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| **Total** | **15.6343** | **1.2188** | **1.8101** | **2.9700e-003** | | **0.0609** | **0.0609** | | **0.0609** | **0.0609** | **0.0000** | **281.4481** | **281.4481** | **0.0159** | | **281.8443** |

## 3.6 Architectural Coating - 2024

**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 | 0.0561 | 0.0338 | 0.3584 | 1.3000e-003 | 0.1643 | 9.7000e-004 | 0.1653 | 0.0436 | 8.9000e-004 | 0.0445 | | 129.8260 | 129.8260 | 2.3800e-003 | | 129.8855 |
| **Total** | **0.0561** | **0.0338** | **0.3584** | **1.3000e-003** | **0.1643** | **9.7000e-004** | **0.1653** | **0.0436** | **8.9000e-004** | **0.0445** | | **129.8260** | **129.8260** | **2.3800e-003** | | **129.8855** |

## 3.6 Architectural Coating - 2025

**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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **15.6244** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

## 3.6 Architectural Coating - 2025

### 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 | 0.0531 | 0.0307 | 0.3317 | 1.2500e-003 | 0.1643 | 9.6000e-004 | 0.1653 | 0.0436 | 8.8000e-004 | 0.0445 | | 124.5418 | 124.5418 | 2.1500e-003 | | 124.5956 |
| **Total** | **0.0531** | **0.0307** | **0.3317** | **1.2500e-003** | **0.1643** | **9.6000e-004** | **0.1653** | **0.0436** | **8.8000e-004** | **0.0445** | | **124.5418** | **124.5418** | **2.1500e-003** | | **124.5956** |

### 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 | 15.4535 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| **Total** | **15.6244** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | **0.0000** | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

### 3.6 Architectural Coating - 2025

**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 | 0.0531 | 0.0307 | 0.3317 | 1.2500e-003 | 0.1643 | 9.6000e-004 | 0.1653 | 0.0436 | 8.8000e-004 | 0.0445 | | 124.5418 | 124.5418 | 2.1500e-003 | | 124.5956 |
| **Total** | **0.0531** | **0.0307** | **0.3317** | **1.2500e-003** | **0.1643** | **9.6000e-004** | **0.1653** | **0.0436** | **8.8000e-004** | **0.0445** | | **124.5418** | **124.5418** | **2.1500e-003** | | **124.5956** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.9861 | 9.3745 | 22.4223 | 0.0818 | 8.0787 | 0.0681 | 8.1467 | 2.1609 | 0.0635 | 2.2243 | | 8,296.5830 | 8,296.5830 | 0.2976 | | 8,304.0236 |
| Unmitigated | 1.9861 | 9.3745 | 22.4223 | 0.0818 | 8.0787 | 0.0681 | 8.1467 | 2.1609 | 0.0635 | 2.2243 | | 8,296.5830 | 8,296.5830 | 0.2976 | | 8,304.0236 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 337.60 | 337.60 | 337.60 | 720,726 | 720,726 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,901.08 | 1,901.08 | 1,901.08 | 3,803,770 | 3,803,770 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| General Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |
| Medical Office Building | 0.581705 | 0.037849 | 0.193793 | 0.109044 | 0.014574 | 0.005304 | 0.018664 | 0.026966 | 0.002656 | 0.002072 | 0.005755 | 0.000900 | 0.000719 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| NaturalGas Unmitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 264.795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8367.51 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0.264795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8.36751 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Unmitigated | 4.1357 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |

## 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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2800e-003 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0248** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

### 6.2 Area by SubCategory

**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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2800e-003 | 2.2000e-004 | 0.0248 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0248** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 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

# VA Alameda

**Bay Area AQMD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2040 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - No Construction analyzed for future conditions.

Off-road Equipment - No Construction analyzed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Grading -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.63 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.63 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.63 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---|---|---|---|---|
| | | Highest | | |

## 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 | 0.7546 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Energy | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 759.9219 | 759.9219 | 0.0300 | 8.6200e-003 | 763.2398 |
| Mobile | 0.2102 | 1.4240 | 2.3377 | 0.0126 | 1.4409 | 5.4300e-003 | 1.4464 | 0.3865 | 5.0600e-003 | 0.3916 | 0.0000 | 1,169.5125 | 1,169.5125 | 0.0358 | 0.0000 | 1,170.4062 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.7243 | 0.0000 | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.5718 | 134.0593 | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| **Total** | **0.9818** | **1.5785** | **2.4697** | **0.0135** | **1.4409** | **0.0172** | **1.4581** | **0.3865** | **0.0168** | **0.4033** | **355.2960** | **2,063.4980** | **2,418.7941** | **21.3558** | **0.0258** | **2,960.3808** |

## 2.2 Overall Operational

**Mitigated Operational**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.7546 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Energy | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 759.9219 | 759.9219 | 0.0300 | 8.6200e-003 | 763.2398 |
| Mobile | 0.2102 | 1.4240 | 2.3377 | 0.0126 | 1.4409 | 5.4300e-003 | 1.4464 | 0.3865 | 5.0600e-003 | 0.3916 | 0.0000 | 1,169.5125 | 1,169.5125 | 0.0358 | 0.0000 | 1,170.4062 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 348.7243 | 0.0000 | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 6.5718 | 134.0593 | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| **Total** | **0.9818** | **1.5785** | **2.4697** | **0.0135** | **1.4409** | **0.0172** | **1.4581** | **0.3865** | **0.0168** | **0.4033** | **355.2960** | **2,063.4980** | **2,418.7941** | **21.3558** | **0.0258** | **2,960.3808** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Paving | Paving | 1/7/2019 | 6/7/2019 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Paving | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 0 | 8.00 | 80 | 0.38 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Paving | 0 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 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 | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### 3.2 Paving - 2019

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.2102 | 1.4240 | 2.3377 | 0.0126 | 1.4409 | 5.4300e-003 | 1.4464 | 0.3865 | 5.0600e-003 | 0.3916 | 0.0000 | 1,169.5125 | 1,169.5125 | 0.0358 | 0.0000 | 1,170.4062 |
| Unmitigated | 0.2102 | 1.4240 | 2.3377 | 0.0126 | 1.4409 | 5.4300e-003 | 1.4464 | 0.3865 | 5.0600e-003 | 0.3916 | 0.0000 | 1,169.5125 | 1,169.5125 | 0.0358 | 0.0000 | 1,170.4062 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 370.40 | 370.40 | 370.40 | 790,749 | 790,749 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,933.88 | 1,933.88 | 1,933.88 | 3,873,793 | 3,873,793 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

### 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| General Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| Medical Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 591.7837 | 591.7837 | 0.0268 | 5.5400e-003 | 594.1025 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 591.7837 | 591.7837 | 0.0268 | 5.5400e-003 | 594.1025 |
| NaturalGas Mitigated | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 168.1382 | 168.1382 | 3.2200e-003 | 3.0800e-003 | 169.1373 |
| NaturalGas Unmitigated | 0.0170 | 0.1545 | 0.1297 | 9.3000e-004 | | 0.0117 | 0.0117 | | 0.0117 | 0.0117 | 0.0000 | 168.1382 | 168.1382 | 3.2200e-003 | 3.0800e-003 | 169.1373 |

## 5.2 Energy by Land Use - NaturalGas

### Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 96650 | 5.2000e-004 | 4.7400e-003 | 3.9800e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.1576 | 5.1576 | 1.0000e-004 | 9.0000e-005 | 5.1883 |
| Medical Office Building | 3.05414e+006 | 0.0165 | 0.1497 | 0.1258 | 9.0000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 162.9805 | 162.9805 | 3.1200e-003 | 2.9900e-003 | 163.9491 |
| **Total** | | **0.0170** | **0.1545** | **0.1297** | **9.3000e-004** | | **0.0117** | **0.0117** | | **0.0117** | **0.0117** | **0.0000** | **168.1382** | **168.1382** | **3.2200e-003** | **3.0800e-003** | **169.1373** |

### Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 96650 | 5.2000e-004 | 4.7400e-003 | 3.9800e-003 | 3.0000e-005 | | 3.6000e-004 | 3.6000e-004 | | 3.6000e-004 | 3.6000e-004 | 0.0000 | 5.1576 | 5.1576 | 1.0000e-004 | 9.0000e-005 | 5.1883 |
| Medical Office Building | 3.05414e+006 | 0.0165 | 0.1497 | 0.1258 | 9.0000e-004 | | 0.0114 | 0.0114 | | 0.0114 | 0.0114 | 0.0000 | 162.9805 | 162.9805 | 3.1200e-003 | 2.9900e-003 | 163.9491 |
| **Total** | | **0.0170** | **0.1545** | **0.1297** | **9.3000e-004** | | **0.0117** | **0.0117** | | **0.0117** | **0.0117** | **0.0000** | **168.1382** | **168.1382** | **3.2200e-003** | **3.0800e-003** | **169.1373** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 62400 | 18.1529 | 8.2000e-004 | 1.7000e-004 | 18.2240 |
| Medical Office Building | 1.97184e+006 | 573.6309 | 0.0259 | 5.3700e-003 | 575.8785 |
| **Total** | | **591.7838** | **0.0268** | **5.5400e-003** | **594.1025** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 62400 | 18.1529 | 8.2000e-004 | 1.7000e-004 | 18.2240 |
| Medical Office Building | 1.97184e+006 | 573.6309 | 0.0259 | 5.3700e-003 | 575.8785 |
| **Total** | | **591.7838** | **0.0268** | **5.5400e-003** | **594.1025** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.7546 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| Unmitigated | 0.7546 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0850 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6694 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-004 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| **Total** | **0.7546** | **2.0000e-005** | **2.2200e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | **0.0000** | **4.3400e-003** | **4.3400e-003** | **1.0000e-005** | **0.0000** | **4.6200e-003** |

### 6.2 Area by SubCategory

**Mitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0850 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6694 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 2.0000e-004 | 2.0000e-005 | 2.2200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 4.3400e-003 | 4.3400e-003 | 1.0000e-005 | 0.0000 | 4.6200e-003 |
| **Total** | **0.7546** | **2.0000e-005** | **2.2200e-003** | **0.0000** | | **1.0000e-005** | **1.0000e-005** | | **1.0000e-005** | **1.0000e-005** | **0.0000** | **4.3400e-003** | **4.3400e-003** | **1.0000e-005** | **0.0000** | **4.6200e-003** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 140.6311 | 0.6811 | 0.0172 | 162.7805 |
| Unmitigated | 140.6311 | 0.6811 | 0.0172 | 162.7805 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 95.3185 | 97.0524 | 4.3900e-003 | 9.1000e-004 | 97.4326 |
| General Office Building | 0.888669 / 0.544668 | 2.2354 | 0.0291 | 7.0000e-004 | 3.1707 |
| Medical Office Building | 19.8259 / 3.77637 | 41.3433 | 0.6476 | 0.0156 | 62.1771 |
| **Total** | | **140.6311** | **0.6811** | **0.0172** | **162.7805** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| City Park | 0 / 95.3185 | 97.0524 | 4.3900e-003 | 9.1000e-004 | 97.4326 |
| General Office Building | 0.888669 / 0.544668 | 2.2354 | 0.0291 | 7.0000e-004 | 3.1707 |
| Medical Office Building | 19.8259 / 3.77637 | 41.3433 | 0.6476 | 0.0156 | 62.1771 |
| **Total** | | **140.6311** | **0.6811** | **0.0172** | **162.7805** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 348.7243 | 20.6090 | 0.0000 | 863.9496 |
| Unmitigated | 348.7243 | 20.6090 | 0.0000 | 863.9496 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| General Office Building | 4.65 | 0.9439 | 0.0558 | 0.0000 | 2.3385 |
| Medical Office Building | 1706.4 | 346.3838 | 20.4707 | 0.0000 | 858.1512 |
| **Total** | | **348.7243** | **20.6090** | **0.0000** | **863.9496** |

### 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| City Park | 6.88 | 1.3966 | 0.0825 | 0.0000 | 3.4600 |
| General Office Building | 4.65 | 0.9439 | 0.0558 | 0.0000 | 2.3385 |
| Medical Office Building | 1706.4 | 346.3838 | 20.4707 | 0.0000 | 858.1512 |
| **Total** | | **348.7243** | **20.6090** | **0.0000** | **863.9496** |

## 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

# VA Alameda

**Bay Area AQMD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2040 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - No Construction analyzed for future conditions.

Off-road Equipment - No Construction analyzed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Grading -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.63 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.63 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.63 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

## 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 | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.3279 | 7.7270 | 13.3745 | 0.0730 | 8.2255 | 0.0299 | 8.2554 | 2.1994 | 0.0278 | 2.2272 | | 7,455.3627 | 7,455.3627 | 0.2146 | | 7,460.7268 |
| **Total** | **5.5567** | **8.5735** | **14.1101** | **0.0781** | **8.2255** | **0.0943** | **8.3198** | **2.1994** | **0.0922** | **2.2916** | | **8,470.9808** | **8,470.9808** | **0.2342** | **0.0186** | **8,482.3832** |

### 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 | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.3279 | 7.7270 | 13.3745 | 0.0730 | 8.2255 | 0.0299 | 8.2554 | 2.1994 | 0.0278 | 2.2272 | | 7,455.3627 | 7,455.3627 | 0.2146 | | 7,460.7268 |
| **Total** | **5.5567** | **8.5735** | **14.1101** | **0.0781** | **8.2255** | **0.0943** | **8.3198** | **2.1994** | **0.0922** | **2.2916** | | **8,470.9808** | **8,470.9808** | **0.2342** | **0.0186** | **8,482.3832** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Paving | Paving | 1/7/2019 | 6/7/2019 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

### OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Paving | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 0 | 8.00 | 80 | 0.38 |

### Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Paving | 0 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

## 3.2 Paving - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

### 3.2 Paving - 2019

**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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.3279 | 7.7270 | 13.3745 | 0.0730 | 8.2255 | 0.0299 | 8.2554 | 2.1994 | 0.0278 | 2.2272 | | 7,455.3627 | 7,455.3627 | 0.2146 | | 7,460.7268 |
| Unmitigated | 1.3279 | 7.7270 | 13.3745 | 0.0730 | 8.2255 | 0.0299 | 8.2554 | 2.1994 | 0.0278 | 2.2272 | | 7,455.3627 | 7,455.3627 | 0.2146 | | 7,460.7268 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 370.40 | 370.40 | 370.40 | 790,749 | 790,749 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,933.88 | 1,933.88 | 1,933.88 | 3,873,793 | 3,873,793 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| General Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| Medical Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| NaturalGas Unmitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 264.795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8367.51 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0.264795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8.36751 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Unmitigated | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |

## 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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2600e-003 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0247** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

### 6.2 Area by SubCategory

**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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2600e-003 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0247** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 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

# VA Alameda

**Bay Area AQMD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| General Office Building | 5.00 | 1000sqft | 0.11 | 5,000.00 | 0 |
| Medical Office Building | 158.00 | 1000sqft | 3.63 | 158,000.00 | 0 |
| City Park | 80.00 | Acre | 80.00 | 3,484,800.00 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.2 | **Precipitation Freq (Days)** | 64 |
| **Climate Zone** | 5 | | | **Operational Year** | 2040 |
| **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 - The City Park land use is representative of the cemetery

Construction Phase - No Construction analyzed for future conditions.

Off-road Equipment - No Construction analyzed

Vehicle Trips - Trip rates adjusted to match traffic report

Construction Off-road Equipment Mitigation -

Grading -

Trips and VMT -

Vehicle Emission Factors -

Vehicle Emission Factors -

Vehicle Emission Factors -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblVehicleTrips | ST_TR | 22.75 | 4.63 |
| tblVehicleTrips | ST_TR | 2.46 | 10.60 |
| tblVehicleTrips | ST_TR | 8.96 | 9.56 |
| tblVehicleTrips | SU_TR | 16.74 | 4.63 |
| tblVehicleTrips | SU_TR | 1.05 | 10.60 |
| tblVehicleTrips | SU_TR | 1.55 | 9.56 |
| tblVehicleTrips | WD_TR | 1.89 | 4.63 |
| tblVehicleTrips | WD_TR | 11.03 | 10.60 |
| tblVehicleTrips | WD_TR | 36.13 | 9.56 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

### Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2019 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Maximum** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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** |

## 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 | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.1412 | 7.8645 | 13.3962 | 0.0686 | 8.2255 | 0.0300 | 8.2555 | 2.1994 | 0.0279 | 2.2273 | | 7,005.7921 | 7,005.7921 | 0.2227 | | 7,011.3600 |
| **Total** | **5.3700** | **8.7110** | **14.1318** | **0.0737** | **8.2255** | **0.0944** | **8.3199** | **2.1994** | **0.0923** | **2.2917** | | **8,021.4101** | **8,021.4101** | **0.2423** | **0.0186** | **8,033.0165** |

### 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 | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Energy | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| Mobile | 1.1412 | 7.8645 | 13.3962 | 0.0686 | 8.2255 | 0.0300 | 8.2555 | 2.1994 | 0.0279 | 2.2273 | | 7,005.7921 | 7,005.7921 | 0.2227 | | 7,011.3600 |
| **Total** | **5.3700** | **8.7110** | **14.1318** | **0.0737** | **8.2255** | **0.0944** | **8.3199** | **2.1994** | **0.0923** | **2.2917** | | **8,021.4101** | **8,021.4101** | **0.2423** | **0.0186** | **8,033.0165** |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N20 | 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 | Paving | Paving | 1/7/2019 | 6/7/2019 | 5 | 110 | |

**Acres of Grading (Site Preparation Phase): 0**

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

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

### OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Paving | Pavers | 0 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 0 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 0 | 8.00 | 80 | 0.38 |

### Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Paving | 0 | 0.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

Water Exposed Area

## 3.2 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

## 3.2 Paving - 2019

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

### 3.2 Paving - 2019

**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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| **Total** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | | **0.0000** |

## 4.0 Operational Detail - Mobile

### 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 1.1412 | 7.8645 | 13.3962 | 0.0686 | 8.2255 | 0.0300 | 8.2555 | 2.1994 | 0.0279 | 2.2273 | | 7,005.7921 | 7,005.7921 | 0.2227 | | 7,011.3600 |
| Unmitigated | 1.1412 | 7.8645 | 13.3962 | 0.0686 | 8.2255 | 0.0300 | 8.2555 | 2.1994 | 0.0279 | 2.2273 | | 7,005.7921 | 7,005.7921 | 0.2227 | | 7,011.3600 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| City Park | 370.40 | 370.40 | 370.40 | 790,749 | 790,749 |
| General Office Building | 53.00 | 53.00 | 53.00 | 126,657 | 126,657 |
| Medical Office Building | 1,510.48 | 1,510.48 | 1510.48 | 2,956,387 | 2,956,387 |
| Total | 1,933.88 | 1,933.88 | 1,933.88 | 3,873,793 | 3,873,793 |

## 4.3 Trip Type Information

| | Miles | | | Trip % | | | Trip Purpose % | | |
|---|---|---|---|---|---|---|---|---|---|
| Land Use | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| City Park | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| General Office Building | 9.50 | 7.30 | 7.30 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| Medical Office Building | 9.50 | 7.30 | 7.30 | 29.60 | 51.40 | 19.00 | 60 | 30 | 10 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| City Park | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| General Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |
| Medical Office Building | 0.586270 | 0.035728 | 0.192384 | 0.105682 | 0.011547 | 0.005282 | 0.020653 | 0.030894 | 0.002795 | 0.001620 | 0.005545 | 0.000937 | 0.000663 |

## 5.0 Energy Detail

Historical Energy Use: N

### 5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |
| NaturalGas Unmitigated | 0.0931 | 0.8463 | 0.7109 | 5.0800e-003 | | 0.0643 | 0.0643 | | 0.0643 | 0.0643 | | 1,015.5649 | 1,015.5649 | 0.0195 | 0.0186 | 1,021.5999 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 264.795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8367.51 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 0.264795 | 2.8600e-003 | 0.0260 | 0.0218 | 1.6000e-004 | | 1.9700e-003 | 1.9700e-003 | | 1.9700e-003 | 1.9700e-003 | | 31.1523 | 31.1523 | 6.0000e-004 | 5.7000e-004 | 31.3374 |
| Medical Office Building | 8.36751 | 0.0902 | 0.8203 | 0.6891 | 4.9200e-003 | | 0.0624 | 0.0624 | | 0.0624 | 0.0624 | | 984.4126 | 984.4126 | 0.0189 | 0.0181 | 990.2624 |
| **Total** | | **0.0931** | **0.8463** | **0.7109** | **5.0800e-003** | | **0.0643** | **0.0643** | | **0.0643** | **0.0643** | | **1,015.5649** | **1,015.5649** | **0.0195** | **0.0186** | **1,021.5999** |

## 6.0 Area Detail

## 6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| Unmitigated | 4.1357 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |

## 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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2600e-003 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0247** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

### 6.2 Area by SubCategory

**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 | 0.4657 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.6677 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.2600e-003 | 2.2000e-004 | 0.0247 | 0.0000 | | 9.0000e-005 | 9.0000e-005 | | 9.0000e-005 | 9.0000e-005 | | 0.0532 | 0.0532 | 1.4000e-004 | | 0.0566 |
| **Total** | **4.1357** | **2.2000e-004** | **0.0247** | **0.0000** | | **9.0000e-005** | **9.0000e-005** | | **9.0000e-005** | **9.0000e-005** | | **0.0532** | **0.0532** | **1.4000e-004** | | **0.0566** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

## 9.0 Operational Offroad

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

## 10.0 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