# 9603 All Right Storage - Cottonwood Avenue - Phase 1

**San Diego County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 87.61 | 1000sqft | 2.01 | 87,613.00 | 0 |
| Parking Lot | 57.00 | Space | 0.96 | 41,817.60 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2022 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
87,613 sf storage
57 RV parking spaces
1 care taker unit

Construction Phase - Phase 1 - 18 months construction (January 2021 - June 2022)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.48 miles
Storage - 2 trips/ksf
RV - 0.022 trips/RV
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 16,207,850 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 10.00 | 179.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 220.00 | 358.00 |
| tblConstructionPhase | NumDays | 6.00 | 10.00 |
| tblConstructionPhase | NumDays | 10.00 | 16.00 |
| tblConstructionPhase | NumDays | 3.00 | 5.00 |
| tblConstructionPhase | PhaseEndDate | 12/16/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 11/18/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 1/14/2021 | 1/22/2021 |
| tblConstructionPhase | PhaseEndDate | 12/2/2021 | 6/30/2022 |
| tblConstructionPhase | PhaseEndDate | 1/6/2021 | 1/8/2021 |
| tblConstructionPhase | PhaseStartDate | 12/3/2021 | 10/1/2021 |
| tblConstructionPhase | PhaseStartDate | 1/15/2021 | 1/25/2021 |
| tblConstructionPhase | PhaseStartDate | 1/7/2021 | 1/11/2021 |
| tblConstructionPhase | PhaseStartDate | 11/19/2021 | 6/9/2022 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 22,800.00 | 41,817.60 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |
| tblLandUse | LotAcreage | 0.51 | 0.96 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | HO_TL | 7.50 | 7.48 |
| tblVehicleTrips | HS_TL | 7.30 | 7.48 |
| tblVehicleTrips | HW_TL | 10.80 | 7.48 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 0.00 | 0.02 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 0.00 | 0.02 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 0.00 | 0.02 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 20,259,812.50 | 16,207,850.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2021 | 0.4699 | 2.6930 | 2.4735 | 4.8900e-003 | 0.1529 | 0.1324 | 0.2853 | 0.0620 | 0.1245 | 0.1864 | 0.0000 | 431.4039 | 431.4039 | 0.0824 | 0.0000 | 433.4637 |
| 2022 | 0.4339 | 1.1620 | 1.2455 | 2.4500e-003 | 0.0391 | 0.0547 | 0.0937 | 0.0106 | 0.0516 | 0.0622 | 0.0000 | 215.4221 | 215.4221 | 0.0394 | 0.0000 | 216.4063 |
| **Maximum** | **0.4699** | **2.6930** | **2.4735** | **4.8900e-003** | **0.1529** | **0.1324** | **0.2853** | **0.0620** | **0.1245** | **0.1864** | **0.0000** | **431.4039** | **431.4039** | **0.0824** | **0.0000** | **433.4637** |

### 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 | 0.4699 | 2.6930 | 2.4735 | 4.8900e-003 | 0.1529 | 0.1324 | 0.2853 | 0.0620 | 0.1245 | 0.1864 | 0.0000 | 431.4035 | 431.4035 | 0.0824 | 0.0000 | 433.4633 |
| 2022 | 0.4339 | 1.1620 | 1.2455 | 2.4500e-003 | 0.0391 | 0.0547 | 0.0937 | 0.0106 | 0.0516 | 0.0622 | 0.0000 | 215.4219 | 215.4219 | 0.0394 | 0.0000 | 216.4061 |
| **Maximum** | **0.4699** | **2.6930** | **2.4735** | **4.8900e-003** | **0.1529** | **0.1324** | **0.2853** | **0.0620** | **0.1245** | **0.1864** | **0.0000** | **431.4035** | **431.4035** | **0.0824** | **0.0000** | **433.4633** |

| | **ROG** | **NOx** | **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) |
|---|---|---|---|---|
| **1** | **1-4-2021** | **4-3-2021** | 0.7350 | 0.7350 |
| **2** | **4-4-2021** | **7-3-2021** | 0.7101 | 0.7101 |
| **3** | **7-4-2021** | **10-3-2021** | 0.7256 | 0.7256 |
| **4** | **10-4-2021** | **1-3-2022** | 0.9512 | 0.9512 |
| **5** | **1-4-2022** | **4-3-2022** | 0.8591 | 0.8591 |
| **6** | **4-4-2022** | **7-3-2022** | 0.7136 | 0.7136 |
| | | **Highest** | 0.9512 | 0.9512 |

## 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 | 0.4004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |
| Energy | 8.5000e-004 | 7.6900e-003 | 6.2400e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 77.4270 | 77.4270 | 2.9300e-003 | 7.7000e-004 | 77.7292 |
| Mobile | 0.0492 | 0.2161 | 0.5703 | 1.9700e-003 | 0.1732 | 1.6600e-003 | 0.1749 | 0.0464 | 1.5500e-003 | 0.0479 | 0.0000 | 181.6861 | 181.6861 | 9.5900e-003 | 0.0000 | 181.9259 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 16.8097 | 0.0000 | 16.8097 | 0.9934 | 0.0000 | 41.6453 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.1585 | 43.2416 | 48.4001 | 0.5316 | 0.0129 | 65.5320 |
| **Total** | **0.4504** | **0.2239** | **0.5853** | **2.0200e-003** | **0.1732** | **2.3000e-003** | **0.1755** | **0.0464** | **2.1900e-003** | **0.0486** | **21.9682** | **302.3694** | **324.3376** | **1.5375** | **0.0137** | **366.8476** |

## 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 | 0.4004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |
| Energy | 8.5000e-004 | 7.6900e-003 | 6.2400e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 77.4270 | 77.4270 | 2.9300e-003 | 7.7000e-004 | 77.7292 |
| Mobile | 0.0492 | 0.2161 | 0.5703 | 1.9700e-003 | 0.1732 | 1.6600e-003 | 0.1749 | 0.0464 | 1.5500e-003 | 0.0479 | 0.0000 | 181.6861 | 181.6861 | 9.5900e-003 | 0.0000 | 181.9259 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.6073 | 0.0000 | 12.6073 | 0.7451 | 0.0000 | 31.2340 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 5.1585 | 43.2416 | 48.4001 | 0.5316 | 0.0129 | 65.5320 |
| **Total** | **0.4504** | **0.2239** | **0.5853** | **2.0200e-003** | **0.1732** | **2.3000e-003** | **0.1755** | **0.0464** | **2.1900e-003** | **0.0486** | **17.7658** | **302.3694** | **320.1352** | **1.2892** | **0.0137** | **356.4363** |

| | ROG | NOx | 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** | **19.13** | **0.00** | **1.30** | **16.15** | **0.00** | **2.84** |

## 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 | 1/8/2021 | 5 | 5 | |
| 2 | Grading | Grading | 1/11/2021 | 1/22/2021 | 5 | 10 | |
| 3 | Building Construction | Building Construction | 1/25/2021 | 6/8/2022 | 5 | 358 | |
| 4 | Paving | Paving | 6/9/2022 | 6/30/2022 | 5 | 16 | |
| 5 | Architectural Coating | Architectural Coating | 10/1/2021 | 6/8/2022 | 5 | 179 | |

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

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0.96**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 131,420; Non-Residential Outdoor: 43,807; Striped Parking Area: 2,509 (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 | Tractors/Loaders/Backhoes | 3 | 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## 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 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 55.00 | 21.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 11.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 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 | | | | | 0.0452 | 0.0000 | 0.0452 | 0.0248 | 0.0000 | 0.0248 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.7200e-003 | 0.1012 | 0.0529 | 1.0000e-004 | | 5.1100e-003 | 5.1100e-003 | | 4.7000e-003 | 4.7000e-003 | 0.0000 | 8.3589 | 8.3589 | 2.7000e-003 | 0.0000 | 8.4265 |
| **Total** | **9.7200e-003** | **0.1012** | **0.0529** | **1.0000e-004** | **0.0452** | **5.1100e-003** | **0.0503** | **0.0248** | **4.7000e-003** | **0.0295** | **0.0000** | **8.3589** | **8.3589** | **2.7000e-003** | **0.0000** | **8.4265** |

## 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 | 1.6000e-004 | 1.1000e-004 | 1.1200e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3152 | 0.3152 | 1.0000e-005 | 0.0000 | 0.3155 |
| **Total** | **1.6000e-004** | **1.1000e-004** | **1.1200e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **1.0000e-004** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3152** | **0.3152** | **1.0000e-005** | **0.0000** | **0.3155** |

### 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 | | | | | 0.0452 | 0.0000 | 0.0452 | 0.0248 | 0.0000 | 0.0248 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 9.7200e-003 | 0.1012 | 0.0529 | 1.0000e-004 | | 5.1100e-003 | 5.1100e-003 | | 4.7000e-003 | 4.7000e-003 | 0.0000 | 8.3589 | 8.3589 | 2.7000e-003 | 0.0000 | 8.4265 |
| **Total** | **9.7200e-003** | **0.1012** | **0.0529** | **1.0000e-004** | **0.0452** | **5.1100e-003** | **0.0503** | **0.0248** | **4.7000e-003** | **0.0295** | **0.0000** | **8.3589** | **8.3589** | **2.7000e-003** | **0.0000** | **8.4265** |

## 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 | 1.6000e-004 | 1.1000e-004 | 1.1200e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3152 | 0.3152 | 1.0000e-005 | 0.0000 | 0.3155 |
| **Total** | **1.6000e-004** | **1.1000e-004** | **1.1200e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **1.0000e-004** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3152** | **0.3152** | **1.0000e-005** | **0.0000** | **0.3155** |

## 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 | | | | | 0.0328 | 0.0000 | 0.0328 | 0.0168 | 0.0000 | 0.0168 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0115 | 0.1237 | 0.0793 | 1.5000e-004 | | 5.8000e-003 | 5.8000e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 13.0269 | 13.0269 | 4.2100e-003 | 0.0000 | 13.1322 |
| **Total** | **0.0115** | **0.1237** | **0.0793** | **1.5000e-004** | **0.0328** | **5.8000e-003** | **0.0386** | **0.0168** | **5.3400e-003** | **0.0222** | **0.0000** | **13.0269** | **13.0269** | **4.2100e-003** | **0.0000** | **13.1322** |

## 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 | 2.6000e-004 | 1.9000e-004 | 1.8700e-003 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 6.1000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5254 | 0.5254 | 2.0000e-005 | 0.0000 | 0.5258 |
| **Total** | **2.6000e-004** | **1.9000e-004** | **1.8700e-003** | **1.0000e-005** | **6.0000e-004** | **0.0000** | **6.1000e-004** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **0.5254** | **0.5254** | **2.0000e-005** | **0.0000** | **0.5258** |

### 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 | | | | | 0.0328 | 0.0000 | 0.0328 | 0.0168 | 0.0000 | 0.0168 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0115 | 0.1237 | 0.0793 | 1.5000e-004 | | 5.8000e-003 | 5.8000e-003 | | 5.3400e-003 | 5.3400e-003 | 0.0000 | 13.0268 | 13.0268 | 4.2100e-003 | 0.0000 | 13.1322 |
| **Total** | **0.0115** | **0.1237** | **0.0793** | **1.5000e-004** | **0.0328** | **5.8000e-003** | **0.0386** | **0.0168** | **5.3400e-003** | **0.0222** | **0.0000** | **13.0268** | **13.0268** | **4.2100e-003** | **0.0000** | **13.1322** |

## 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 | 2.6000e-004 | 1.9000e-004 | 1.8700e-003 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 6.1000e-004 | 1.6000e-004 | 0.0000 | 1.6000e-004 | 0.0000 | 0.5254 | 0.5254 | 2.0000e-005 | 0.0000 | 0.5258 |
| **Total** | **2.6000e-004** | **1.9000e-004** | **1.8700e-003** | **1.0000e-005** | **6.0000e-004** | **0.0000** | **6.1000e-004** | **1.6000e-004** | **0.0000** | **1.6000e-004** | **0.0000** | **0.5254** | **0.5254** | **2.0000e-005** | **0.0000** | **0.5258** |

## 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 | 0.2329 | 2.1354 | 2.0305 | 3.3000e-003 | | 0.1174 | 0.1174 | | 0.1104 | 0.1104 | 0.0000 | 283.7557 | 283.7557 | 0.0685 | 0.0000 | 285.4671 |
| **Total** | **0.2329** | **2.1354** | **2.0305** | **3.3000e-003** | | **0.1174** | **0.1174** | | **0.1104** | **0.1104** | **0.0000** | **283.7557** | **283.7557** | **0.0685** | **0.0000** | **285.4671** |

## 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 | 7.9500e-003 | 0.2644 | 0.0705 | 6.9000e-004 | 0.0171 | 5.6000e-004 | 0.0176 | 4.9300e-003 | 5.4000e-004 | 5.4600e-003 | 0.0000 | 67.2555 | 67.2555 | 4.9900e-003 | 0.0000 | 67.3802 |
| Worker | 0.0234 | 0.0167 | 0.1683 | 5.2000e-004 | 0.0540 | 3.8000e-004 | 0.0544 | 0.0144 | 3.5000e-004 | 0.0147 | 0.0000 | 47.1977 | 47.1977 | 1.3500e-003 | 0.0000 | 47.2315 |
| **Total** | **0.0314** | **0.2811** | **0.2388** | **1.2100e-003** | **0.0711** | **9.4000e-004** | **0.0720** | **0.0193** | **8.9000e-004** | **0.0202** | **0.0000** | **114.4532** | **114.4532** | **6.3400e-003** | **0.0000** | **114.6118** |

### 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 | 0.2329 | 2.1354 | 2.0305 | 3.3000e-003 | | 0.1174 | 0.1174 | | 0.1104 | 0.1104 | 0.0000 | 283.7553 | 283.7553 | 0.0685 | 0.0000 | 285.4668 |
| **Total** | **0.2329** | **2.1354** | **2.0305** | **3.3000e-003** | | **0.1174** | **0.1174** | | **0.1104** | **0.1104** | **0.0000** | **283.7553** | **283.7553** | **0.0685** | **0.0000** | **285.4668** |

## 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 | 7.9500e-003 | 0.2644 | 0.0705 | 6.9000e-004 | 0.0171 | 5.6000e-004 | 0.0176 | 4.9300e-003 | 5.4000e-004 | 5.4600e-003 | 0.0000 | 67.2555 | 67.2555 | 4.9900e-003 | 0.0000 | 67.3802 |
| Worker | 0.0234 | 0.0167 | 0.1683 | 5.2000e-004 | 0.0540 | 3.8000e-004 | 0.0544 | 0.0144 | 3.5000e-004 | 0.0147 | 0.0000 | 47.1977 | 47.1977 | 1.3500e-003 | 0.0000 | 47.2315 |
| **Total** | **0.0314** | **0.2811** | **0.2388** | **1.2100e-003** | **0.0711** | **9.4000e-004** | **0.0720** | **0.0193** | **8.9000e-004** | **0.0202** | **0.0000** | **114.4532** | **114.4532** | **6.3400e-003** | **0.0000** | **114.6118** |

## 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 | 0.0964 | 0.8823 | 0.9245 | 1.5200e-003 | | 0.0457 | 0.0457 | | 0.0430 | 0.0430 | 0.0000 | 130.9248 | 130.9248 | 0.0314 | 0.0000 | 131.7089 |
| **Total** | **0.0964** | **0.8823** | **0.9245** | **1.5200e-003** | | **0.0457** | **0.0457** | | **0.0430** | **0.0430** | **0.0000** | **130.9248** | **130.9248** | **0.0314** | **0.0000** | **131.7089** |

## 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 | 3.4100e-003 | 0.1151 | 0.0308 | 3.1000e-004 | 7.8800e-003 | 2.2000e-004 | 8.1000e-003 | 2.2700e-003 | 2.1000e-004 | 2.4900e-003 | 0.0000 | 30.7261 | 30.7261 | 2.2300e-003 | 0.0000 | 30.7819 |
| Worker | 0.0102 | 7.0300e-003 | 0.0721 | 2.3000e-004 | 0.0249 | 1.7000e-004 | 0.0251 | 6.6200e-003 | 1.6000e-004 | 6.7800e-003 | 0.0000 | 20.9708 | 20.9708 | 5.7000e-004 | 0.0000 | 20.9850 |
| **Total** | **0.0136** | **0.1222** | **0.1029** | **5.4000e-004** | **0.0328** | **3.9000e-004** | **0.0332** | **8.8900e-003** | **3.7000e-004** | **9.2700e-003** | **0.0000** | **51.6969** | **51.6969** | **2.8000e-003** | **0.0000** | **51.7669** |

### 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 | 0.0964 | 0.8823 | 0.9245 | 1.5200e-003 | | 0.0457 | 0.0457 | | 0.0430 | 0.0430 | 0.0000 | 130.9246 | 130.9246 | 0.0314 | 0.0000 | 131.7088 |
| **Total** | **0.0964** | **0.8823** | **0.9245** | **1.5200e-003** | | **0.0457** | **0.0457** | | **0.0430** | **0.0430** | **0.0000** | **130.9246** | **130.9246** | **0.0314** | **0.0000** | **131.7088** |

## 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 | 3.4100e-003 | 0.1151 | 0.0308 | 3.1000e-004 | 7.8800e-003 | 2.2000e-004 | 8.1000e-003 | 2.2700e-003 | 2.1000e-004 | 2.4900e-003 | 0.0000 | 30.7261 | 30.7261 | 2.2300e-003 | 0.0000 | 30.7819 |
| Worker | 0.0102 | 7.0300e-003 | 0.0721 | 2.3000e-004 | 0.0249 | 1.7000e-004 | 0.0251 | 6.6200e-003 | 1.6000e-004 | 6.7800e-003 | 0.0000 | 20.9708 | 20.9708 | 5.7000e-004 | 0.0000 | 20.9850 |
| **Total** | **0.0136** | **0.1222** | **0.1029** | **5.4000e-004** | **0.0328** | **3.9000e-004** | **0.0332** | **8.8900e-003** | **3.7000e-004** | **9.2700e-003** | **0.0000** | **51.6969** | **51.6969** | **2.8000e-003** | **0.0000** | **51.7669** |

## 3.5 Paving - 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 | 7.8100e-003 | 0.0762 | 0.0976 | 1.5000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 13.1007 | 13.1007 | 4.1200e-003 | 0.0000 | 13.2036 |
| Paving | 1.2600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **9.0700e-003** | **0.0762** | **0.0976** | **1.5000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.6000e-003** | **3.6000e-003** | **0.0000** | **13.1007** | **13.1007** | **4.1200e-003** | **0.0000** | **13.2036** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 5.3000e-004 | 3.6000e-004 | 3.7100e-003 | 1.0000e-005 | 1.2800e-003 | 1.0000e-005 | 1.2900e-003 | 3.4000e-004 | 1.0000e-005 | 3.5000e-004 | 0.0000 | 1.0798 | 1.0798 | 3.0000e-005 | 0.0000 | 1.0805 |
| **Total** | **5.3000e-004** | **3.6000e-004** | **3.7100e-003** | **1.0000e-005** | **1.2800e-003** | **1.0000e-005** | **1.2900e-003** | **3.4000e-004** | **1.0000e-005** | **3.5000e-004** | **0.0000** | **1.0798** | **1.0798** | **3.0000e-005** | **0.0000** | **1.0805** |

### 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 | 7.8100e-003 | 0.0762 | 0.0976 | 1.5000e-004 | | 3.9000e-003 | 3.9000e-003 | | 3.6000e-003 | 3.6000e-003 | 0.0000 | 13.1007 | 13.1007 | 4.1200e-003 | 0.0000 | 13.2036 |
| Paving | 1.2600e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **9.0700e-003** | **0.0762** | **0.0976** | **1.5000e-004** | | **3.9000e-003** | **3.9000e-003** | | **3.6000e-003** | **3.6000e-003** | **0.0000** | **13.1007** | **13.1007** | **4.1200e-003** | **0.0000** | **13.2036** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 5.3000e-004 | 3.6000e-004 | 3.7100e-003 | 1.0000e-005 | 1.2800e-003 | 1.0000e-005 | 1.2900e-003 | 3.4000e-004 | 1.0000e-005 | 3.5000e-004 | 0.0000 | 1.0798 | 1.0798 | 3.0000e-005 | 0.0000 | 1.0805 |
| **Total** | **5.3000e-004** | **3.6000e-004** | **3.7100e-003** | **1.0000e-005** | **1.2800e-003** | **1.0000e-005** | **1.2900e-003** | **3.4000e-004** | **1.0000e-005** | **3.5000e-004** | **0.0000** | **1.0798** | **1.0798** | **3.0000e-005** | **0.0000** | **1.0805** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 0.1756 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.2200e-003 | 0.0504 | 0.0600 | 1.0000e-004 | | 3.1100e-003 | 3.1100e-003 | | 3.1100e-003 | 3.1100e-003 | 0.0000 | 8.4257 | 8.4257 | 5.8000e-004 | 0.0000 | 8.4402 |
| **Total** | **0.1828** | **0.0504** | **0.0600** | **1.0000e-004** | | **3.1100e-003** | **3.1100e-003** | | **3.1100e-003** | **3.1100e-003** | **0.0000** | **8.4257** | **8.4257** | **5.8000e-004** | **0.0000** | **8.4402** |

## 3.6 Architectural Coating - 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 | 1.2600e-003 | 9.0000e-004 | 9.0700e-003 | 3.0000e-005 | 2.9100e-003 | 2.0000e-005 | 2.9300e-003 | 7.7000e-004 | 2.0000e-005 | 7.9000e-004 | 0.0000 | 2.5429 | 2.5429 | 7.0000e-005 | 0.0000 | 2.5447 |
| **Total** | **1.2600e-003** | **9.0000e-004** | **9.0700e-003** | **3.0000e-005** | **2.9100e-003** | **2.0000e-005** | **2.9300e-003** | **7.7000e-004** | **2.0000e-005** | **7.9000e-004** | **0.0000** | **2.5429** | **2.5429** | **7.0000e-005** | **0.0000** | **2.5447** |

**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 | 0.1756 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.2200e-003 | 0.0504 | 0.0600 | 1.0000e-004 | | 3.1100e-003 | 3.1100e-003 | | 3.1100e-003 | 3.1100e-003 | 0.0000 | 8.4257 | 8.4257 | 5.8000e-004 | 0.0000 | 8.4402 |
| **Total** | **0.1828** | **0.0504** | **0.0600** | **1.0000e-004** | | **3.1100e-003** | **3.1100e-003** | | **3.1100e-003** | **3.1100e-003** | **0.0000** | **8.4257** | **8.4257** | **5.8000e-004** | **0.0000** | **8.4402** |

## 3.6 Architectural Coating - 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 | 1.2600e-003 | 9.0000e-004 | 9.0700e-003 | 3.0000e-005 | 2.9100e-003 | 2.0000e-005 | 2.9300e-003 | 7.7000e-004 | 2.0000e-005 | 7.9000e-004 | 0.0000 | 2.5429 | 2.5429 | 7.0000e-005 | 0.0000 | 2.5447 |
| **Total** | **1.2600e-003** | **9.0000e-004** | **9.0700e-003** | **3.0000e-005** | **2.9100e-003** | **2.0000e-005** | **2.9300e-003** | **7.7000e-004** | **2.0000e-005** | **7.9000e-004** | **0.0000** | **2.5429** | **2.5429** | **7.0000e-005** | **0.0000** | **2.5447** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 0.3007 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0116 | 0.0796 | 0.1025 | 1.7000e-004 | | 4.6200e-003 | 4.6200e-003 | | 4.6200e-003 | 4.6200e-003 | 0.0000 | 14.4259 | 14.4259 | 9.4000e-004 | 0.0000 | 14.4494 |
| **Total** | **0.3122** | **0.0796** | **0.1025** | **1.7000e-004** | | **4.6200e-003** | **4.6200e-003** | | **4.6200e-003** | **4.6200e-003** | **0.0000** | **14.4259** | **14.4259** | **9.4000e-004** | **0.0000** | **14.4494** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 2.0400e-003 | 1.4100e-003 | 0.0144 | 5.0000e-005 | 4.9800e-003 | 3.0000e-005 | 5.0200e-003 | 1.3200e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.1942 | 4.1942 | 1.1000e-004 | 0.0000 | 4.1970 |
| **Total** | **2.0400e-003** | **1.4100e-003** | **0.0144** | **5.0000e-005** | **4.9800e-003** | **3.0000e-005** | **5.0200e-003** | **1.3200e-003** | **3.0000e-005** | **1.3600e-003** | **0.0000** | **4.1942** | **4.1942** | **1.1000e-004** | **0.0000** | **4.1970** |

**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 | 0.3007 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0116 | 0.0796 | 0.1025 | 1.7000e-004 | | 4.6200e-003 | 4.6200e-003 | | 4.6200e-003 | 4.6200e-003 | 0.0000 | 14.4259 | 14.4259 | 9.4000e-004 | 0.0000 | 14.4494 |
| **Total** | **0.3122** | **0.0796** | **0.1025** | **1.7000e-004** | | **4.6200e-003** | **4.6200e-003** | | **4.6200e-003** | **4.6200e-003** | **0.0000** | **14.4259** | **14.4259** | **9.4000e-004** | **0.0000** | **14.4494** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 2.0400e-003 | 1.4100e-003 | 0.0144 | 5.0000e-005 | 4.9800e-003 | 3.0000e-005 | 5.0200e-003 | 1.3200e-003 | 3.0000e-005 | 1.3600e-003 | 0.0000 | 4.1942 | 4.1942 | 1.1000e-004 | 0.0000 | 4.1970 |
| **Total** | **2.0400e-003** | **1.4100e-003** | **0.0144** | **5.0000e-005** | **4.9800e-003** | **3.0000e-005** | **5.0200e-003** | **1.3200e-003** | **3.0000e-005** | **1.3600e-003** | **0.0000** | **4.1942** | **4.1942** | **1.1000e-004** | **0.0000** | **4.1970** |

# 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 | 0.0492 | 0.2161 | 0.5703 | 1.9700e-003 | 0.1732 | 1.6600e-003 | 0.1749 | 0.0464 | 1.5500e-003 | 0.0479 | 0.0000 | 181.6861 | 181.6861 | 9.5900e-003 | 0.0000 | 181.9259 |
| Unmitigated | 0.0492 | 0.2161 | 0.5703 | 1.9700e-003 | 0.1732 | 1.6600e-003 | 0.1749 | 0.0464 | 1.5500e-003 | 0.0479 | 0.0000 | 181.6861 | 181.6861 | 9.5900e-003 | 0.0000 | 181.9259 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,505 | 14,505 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 175.23 | 175.23 | 175.23 | 445,079 | 445,079 |
| Total | 181.23 | 181.23 | 181.23 | 459,584 | 459,584 |

## 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 |
| Apartments Low Rise | 7.48 | 7.48 | 7.48 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 7.48 | 7.48 | 7.48 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.48 | 7.48 | 7.48 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Parking Lot | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Unrefrigerated Warehouse-No Rail | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |

## 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 | 69.0201 | 69.0201 | 2.7700e-003 | 6.1000e-004 | 69.2724 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 69.0201 | 69.0201 | 2.7700e-003 | 6.1000e-004 | 69.2724 |
| NaturalGas Mitigated | 8.5000e-004 | 7.6900e-003 | 6.2400e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 8.4069 | 8.4069 | 1.6000e-004 | 1.5000e-004 | 8.4569 |
| NaturalGas Unmitigated | 8.5000e-004 | 7.6900e-003 | 6.2400e-003 | 5.0000e-005 | | 5.9000e-004 | 5.9000e-004 | | 5.9000e-004 | 5.9000e-004 | 0.0000 | 8.4069 | 8.4069 | 1.6000e-004 | 1.5000e-004 | 8.4569 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Low Rise | 11225.5 | 6.0000e-005 | 5.2000e-004 | 2.2000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.5990 | 0.5990 | 1.0000e-005 | 1.0000e-005 | 0.6026 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 146314 | 7.9000e-004 | 7.1700e-003 | 6.0200e-003 | 4.0000e-005 | | 5.5000e-004 | 5.5000e-004 | | 5.5000e-004 | 5.5000e-004 | 0.0000 | 7.8079 | 7.8079 | 1.5000e-004 | 1.4000e-004 | 7.8543 |
| **Total** | | **8.5000e-004** | **7.6900e-003** | **6.2400e-003** | **4.0000e-005** | | **5.9000e-004** | **5.9000e-004** | | **5.9000e-004** | **5.9000e-004** | **0.0000** | **8.4069** | **8.4069** | **1.6000e-004** | **1.5000e-004** | **8.4568** |

**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 | | | | | |
| Apartments Low Rise | 11225.5 | 6.0000e-005 | 5.2000e-004 | 2.2000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.5990 | 0.5990 | 1.0000e-005 | 1.0000e-005 | 0.6026 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 146314 | 7.9000e-004 | 7.1700e-003 | 6.0200e-003 | 4.0000e-005 | | 5.5000e-004 | 5.5000e-004 | | 5.5000e-004 | 5.5000e-004 | 0.0000 | 7.8079 | 7.8079 | 1.5000e-004 | 1.4000e-004 | 7.8543 |
| **Total** | | **8.5000e-004** | **7.6900e-003** | **6.2400e-003** | **4.0000e-005** | | **5.9000e-004** | **5.9000e-004** | | **5.9000e-004** | **5.9000e-004** | **0.0000** | **8.4069** | **8.4069** | **1.6000e-004** | **1.5000e-004** | **8.4568** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4243.98 | 0.8649 | 3.0000e-005 | 1.0000e-005 | 0.8681 |
| Parking Lot | 14636.2 | 2.9828 | 1.2000e-004 | 3.0000e-005 | 2.9937 |
| Unrefrigerated Warehouse-No Rail | 319787 | 65.1724 | 2.6100e-003 | 5.8000e-004 | 65.4106 |
| **Total** | | **69.0201** | **2.7600e-003** | **6.2000e-004** | **69.2724** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4243.98 | 0.8649 | 3.0000e-005 | 1.0000e-005 | 0.8681 |
| Parking Lot | 14636.2 | 2.9828 | 1.2000e-004 | 3.0000e-005 | 2.9937 |
| Unrefrigerated Warehouse-No Rail | 319787 | 65.1724 | 2.6100e-003 | 5.8000e-004 | 65.4106 |
| **Total** | | **69.0201** | **2.7600e-003** | **6.2000e-004** | **69.2724** |

# 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 | 0.4004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |
| Unmitigated | 0.4004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |

## 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 | 0.0476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3524 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |
| **Total** | **0.4004** | **1.0000e-004** | **8.7600e-003** | **0.0000** | | **5.0000e-005** | **5.0000e-005** | | **5.0000e-005** | **5.0000e-005** | **0.0000** | **0.0147** | **0.0147** | **2.0000e-005** | **0.0000** | **0.0152** |

## 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 | 0.0476 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.3524 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 1.0000e-004 | 8.7600e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0147 | 0.0147 | 2.0000e-005 | 0.0000 | 0.0152 |
| **Total** | **0.4004** | **1.0000e-004** | **8.7600e-003** | **0.0000** | | **5.0000e-005** | **5.0000e-005** | | **5.0000e-005** | **5.0000e-005** | **0.0000** | **0.0147** | **0.0147** | **2.0000e-005** | **0.0000** | **0.0152** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 48.4001 | 0.5316 | 0.0129 | 65.5320 |
| Unmitigated | 48.4001 | 0.5316 | 0.0129 | 65.5320 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0.0521232 / 0.0410754 | 0.2479 | 1.7100e-003 | 4.0000e-005 | 0.3031 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 16.2079 / 0 | 48.1523 | 0.5299 | 0.0129 | 65.2289 |
| **Total** | | **48.4001** | **0.5316** | **0.0129** | **65.5320** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0.0521232 / 0.0410754 | 0.2479 | 1.7100e-003 | 4.0000e-005 | 0.3031 |
| Parking Lot | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 16.2079 / 0 | 48.1523 | 0.5299 | 0.0129 | 65.2289 |
| **Total** | | **48.4001** | **0.5316** | **0.0129** | **65.5320** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 12.6073 | 0.7451 | 0.0000 | 31.2340 |
| Unmitigated | 16.8097 | 0.9934 | 0.0000 | 41.6453 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 0.46 | 0.0934 | 5.5200e-003 | 0.0000 | 0.2313 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 82.35 | 16.7163 | 0.9879 | 0.0000 | 41.4139 |
| **Total** | | **16.8097** | **0.9934** | **0.0000** | **41.6453** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 0.345 | 0.0700 | 4.1400e-003 | 0.0000 | 0.1735 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 61.7625 | 12.5372 | 0.7409 | 0.0000 | 31.0605 |
| **Total** | | **12.6073** | **0.7451** | **0.0000** | **31.2340** |

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phase 1

**San Diego County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 87.61 | 1000sqft | 2.01 | 87,613.00 | 0 |
| Parking Lot | 57.00 | Space | 0.96 | 41,817.60 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2022 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
87,613 sf storage
57 RV parking spaces
1 care taker unit

Construction Phase - Phase 1 - 18 months construction (January 2021 - June 2022)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.48 miles
Storage - 2 trips/ksf
RV - 0.022 trips/RV
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 16,207,850 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 10.00 | 179.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 220.00 | 358.00 |
| tblConstructionPhase | NumDays | 6.00 | 10.00 |
| tblConstructionPhase | NumDays | 10.00 | 16.00 |
| tblConstructionPhase | NumDays | 3.00 | 5.00 |
| tblConstructionPhase | PhaseEndDate | 12/16/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 11/18/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 1/14/2021 | 1/22/2021 |
| tblConstructionPhase | PhaseEndDate | 12/2/2021 | 6/30/2022 |
| tblConstructionPhase | PhaseEndDate | 1/6/2021 | 1/8/2021 |
| tblConstructionPhase | PhaseStartDate | 12/3/2021 | 10/1/2021 |
| tblConstructionPhase | PhaseStartDate | 1/15/2021 | 1/25/2021 |
| tblConstructionPhase | PhaseStartDate | 1/7/2021 | 1/11/2021 |
| tblConstructionPhase | PhaseStartDate | 11/19/2021 | 6/9/2022 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 22,800.00 | 41,817.60 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |
| tblLandUse | LotAcreage | 0.51 | 0.96 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | HO_TL | 7.50 | 7.48 |
| tblVehicleTrips | HS_TL | 7.30 | 7.48 |
| tblVehicleTrips | HW_TL | 10.80 | 7.48 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 0.00 | 0.02 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 0.00 | 0.02 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 0.00 | 0.02 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 20,259,812.50 | 16,207,850.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 7.7329 | 40.5376 | 21.6317 | 0.0410 | 18.2141 | 2.0455 | 20.2596 | 9.9699 | 1.8819 | 11.8517 | 0.0000 | 3,984.1820 | 3,984.1820 | 1.1962 | 0.0000 | 4,001.5417 |
| 2022 | 7.5069 | 19.1803 | 20.3209 | 0.0407 | 0.6843 | 0.8983 | 1.5826 | 0.1847 | 0.8499 | 1.0347 | 0.0000 | 3,959.6800 | 3,959.6800 | 0.6867 | 0.0000 | 3,976.8478 |
| **Maximum** | **7.7329** | **40.5376** | **21.6317** | **0.0410** | **18.2141** | **2.0455** | **20.2596** | **9.9699** | **1.8819** | **11.8517** | **0.0000** | **3,984.1820** | **3,984.1820** | **1.1962** | **0.0000** | **4,001.5417** |

### 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 | 7.7329 | 40.5375 | 21.6317 | 0.0410 | 18.2141 | 2.0455 | 20.2596 | 9.9699 | 1.8819 | 11.8517 | 0.0000 | 3,984.1820 | 3,984.1820 | 1.1962 | 0.0000 | 4,001.5417 |
| 2022 | 7.5069 | 19.1803 | 20.3209 | 0.0407 | 0.6843 | 0.8983 | 1.5826 | 0.1847 | 0.8499 | 1.0347 | 0.0000 | 3,959.6800 | 3,959.6800 | 0.6867 | 0.0000 | 3,976.8478 |
| **Maximum** | **7.7329** | **40.5375** | **21.6317** | **0.0410** | **18.2141** | **2.0455** | **20.2596** | **9.9699** | **1.8819** | **11.8517** | **0.0000** | **3,984.1820** | **3,984.1820** | **1.1962** | **0.0000** | **4,001.5417** |

| | **ROG** | **NOx** | **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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Energy | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| Mobile | 0.2859 | 1.1540 | 3.2151 | 0.0113 | 0.9745 | 9.0800e-003 | 0.9836 | 0.2604 | 8.4800e-003 | 0.2689 | | 1,149.1323 | 1,149.1323 | 0.0584 | | 1,150.5918 |
| **Total** | **2.4864** | **1.1972** | **3.3467** | **0.0116** | **0.9745** | **0.0128** | **0.9873** | **0.2604** | **0.0122** | **0.2727** | **0.0000** | **1,200.0906** | **1,200.0906** | **0.0596** | **9.3000e-004** | **1,201.8576** |

### 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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Energy | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| Mobile | 0.2859 | 1.1540 | 3.2151 | 0.0113 | 0.9745 | 9.0800e-003 | 0.9836 | 0.2604 | 8.4800e-003 | 0.2689 | | 1,149.1323 | 1,149.1323 | 0.0584 | | 1,150.5918 |
| **Total** | **2.4864** | **1.1972** | **3.3467** | **0.0116** | **0.9745** | **0.0128** | **0.9873** | **0.2604** | **0.0122** | **0.2727** | **0.0000** | **1,200.0906** | **1,200.0906** | **0.0596** | **9.3000e-004** | **1,201.8576** |

| | ROG | NOx | 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 | 1/8/2021 | 5 | 5 | |
| 2 | Grading | Grading | 1/11/2021 | 1/22/2021 | 5 | 10 | |
| 3 | Building Construction | Building Construction | 1/25/2021 | 6/8/2022 | 5 | 358 | |
| 4 | Paving | Paving | 6/9/2022 | 6/30/2022 | 5 | 16 | |
| 5 | Architectural Coating | Architectural Coating | 10/1/2021 | 6/8/2022 | 5 | 179 | |

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

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0.96**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 131,420; Non-Residential Outdoor: 43,807; Striped Parking Area: 2,509 (Architectural Coating – sqft)**

**OffRoad Equipment**

9603 All Right Storage - Cottonwood Avenue - Phase 1 - San Diego County APCD Air District, Summer

| 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 | Tractors/Loaders/Backhoes | 3 | 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## 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 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 55.00 | 21.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 11.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 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 | 0.0623 | 0.0405 | 0.4774 | 1.4700e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 146.5994 | 146.5994 | 4.1800e-003 | | 146.7040 |
| **Total** | **0.0623** | **0.0405** | **0.4774** | **1.4700e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **146.5994** | **146.5994** | **4.1800e-003** | | **146.7040** |

### 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 | | | | | 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 | 0.0000 | 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** | **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 | 0.0623 | 0.0405 | 0.4774 | 1.4700e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 146.5994 | 146.5994 | 4.1800e-003 | | 146.7040 |
| **Total** | **0.0623** | **0.0405** | **0.4774** | **1.4700e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **146.5994** | **146.5994** | **4.1800e-003** | | **146.7040** |

## 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| **Total** | **2.2903** | **24.7367** | **15.8575** | **0.0296** | **6.5523** | **1.1599** | **7.7123** | **3.3675** | **1.0671** | **4.4346** | | **2,871.9285** | **2,871.9285** | **0.9288** | | **2,895.1495** |

## 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 | 0.0519 | 0.0337 | 0.3979 | 1.2300e-003 | 0.1232 | 8.5000e-004 | 0.1241 | 0.0327 | 7.8000e-004 | 0.0335 | | 122.1661 | 122.1661 | 3.4900e-003 | | 122.2533 |
| **Total** | **0.0519** | **0.0337** | **0.3979** | **1.2300e-003** | **0.1232** | **8.5000e-004** | **0.1241** | **0.0327** | **7.8000e-004** | **0.0335** | | **122.1661** | **122.1661** | **3.4900e-003** | | **122.2533** |

### 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| **Total** | **2.2903** | **24.7367** | **15.8575** | **0.0296** | **6.5523** | **1.1599** | **7.7123** | **3.3675** | **1.0671** | **4.4346** | **0.0000** | **2,871.9285** | **2,871.9285** | **0.9288** | | **2,895.1495** |

## 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 | 0.0519 | 0.0337 | 0.3979 | 1.2300e-003 | 0.1232 | 8.5000e-004 | 0.1241 | 0.0327 | 7.8000e-004 | 0.0335 | | 122.1661 | 122.1661 | 3.4900e-003 | | 122.2533 |
| **Total** | **0.0519** | **0.0337** | **0.3979** | **1.2300e-003** | **0.1232** | **8.5000e-004** | **0.1241** | **0.0327** | **7.8000e-004** | **0.0335** | | **122.1661** | **122.1661** | **3.4900e-003** | | **122.2533** |

## 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 | 0.0635 | 2.1384 | 0.5450 | 5.6900e-003 | 0.1422 | 4.4900e-003 | 0.1467 | 0.0409 | 4.3000e-003 | 0.0452 | | 611.8391 | 611.8391 | 0.0437 | | 612.9320 |
| Worker | 0.1902 | 0.1236 | 1.4588 | 4.4900e-003 | 0.4518 | 3.1200e-003 | 0.4549 | 0.1198 | 2.8700e-003 | 0.1227 | | 447.9425 | 447.9425 | 0.0128 | | 448.2621 |
| **Total** | **0.2537** | **2.2620** | **2.0038** | **0.0102** | **0.5940** | **7.6100e-003** | **0.6016** | **0.1608** | **7.1700e-003** | **0.1679** | | **1,059.7816** | **1,059.7816** | **0.0565** | | **1,061.1941** |

### 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 | 0.0635 | 2.1384 | 0.5450 | 5.6900e-003 | 0.1422 | 4.4900e-003 | 0.1467 | 0.0409 | 4.3000e-003 | 0.0452 | | 611.8391 | 611.8391 | 0.0437 | | 612.9320 |
| Worker | 0.1902 | 0.1236 | 1.4588 | 4.4900e-003 | 0.4518 | 3.1200e-003 | 0.4549 | 0.1198 | 2.8700e-003 | 0.1227 | | 447.9425 | 447.9425 | 0.0128 | | 448.2621 |
| **Total** | **0.2537** | **2.2620** | **2.0038** | **0.0102** | **0.5940** | **7.6100e-003** | **0.6016** | **0.1608** | **7.1700e-003** | **0.1679** | | **1,059.7816** | **1,059.7816** | **0.0565** | | **1,061.1941** |

## 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 | 0.0591 | 2.0209 | 0.5161 | 5.6200e-003 | 0.1422 | 3.8600e-003 | 0.1460 | 0.0409 | 3.6900e-003 | 0.0446 | | 606.0889 | 606.0889 | 0.0424 | | 607.1484 |
| Worker | 0.1799 | 0.1127 | 1.3565 | 4.3300e-003 | 0.4518 | 3.0500e-003 | 0.4549 | 0.1198 | 2.8100e-003 | 0.1227 | | 431.5079 | 431.5079 | 0.0117 | | 431.8008 |
| **Total** | **0.2389** | **2.1336** | **1.8726** | **9.9500e-003** | **0.5940** | **6.9100e-003** | **0.6009** | **0.1608** | **6.5000e-003** | **0.1673** | | **1,037.5968** | **1,037.5968** | **0.0541** | | **1,038.9492** |

### 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 | 0.0591 | 2.0209 | 0.5161 | 5.6200e-003 | 0.1422 | 3.8600e-003 | 0.1460 | 0.0409 | 3.6900e-003 | 0.0446 | | 606.0889 | 606.0889 | 0.0424 | | 607.1484 |
| Worker | 0.1799 | 0.1127 | 1.3565 | 4.3300e-003 | 0.4518 | 3.0500e-003 | 0.4549 | 0.1198 | 2.8100e-003 | 0.1227 | | 431.5079 | 431.5079 | 0.0117 | | 431.8008 |
| **Total** | **0.2389** | **2.1336** | **1.8726** | **9.9500e-003** | **0.5940** | **6.9100e-003** | **0.6009** | **0.1608** | **6.5000e-003** | **0.1673** | | **1,037.5968** | **1,037.5968** | **0.0541** | | **1,038.9492** |

## 3.5 Paving - 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 | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.1572 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.1337** | **9.5221** | **12.1940** | **0.0189** | | **0.4877** | **0.4877** | | **0.4504** | **0.4504** | | **1,805.1297** | **1,805.1297** | **0.5672** | | **1,819.3091** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 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 | 0.0654 | 0.0410 | 0.4933 | 1.5700e-003 | 0.1643 | 1.1100e-003 | 0.1654 | 0.0436 | 1.0200e-003 | 0.0446 | | 156.9120 | 156.9120 | 4.2600e-003 | | 157.0185 |
| **Total** | **0.0654** | **0.0410** | **0.4933** | **1.5700e-003** | **0.1643** | **1.1100e-003** | **0.1654** | **0.0436** | **1.0200e-003** | **0.0446** | | **156.9120** | **156.9120** | **4.2600e-003** | | **157.0185** |

### 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 | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.1572 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.1337** | **9.5221** | **12.1940** | **0.0189** | | **0.4877** | **0.4877** | | **0.4504** | **0.4504** | **0.0000** | **1,805.1297** | **1,805.1297** | **0.5672** | | **1,819.3091** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 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 | 0.0654 | 0.0410 | 0.4933 | 1.5700e-003 | 0.1643 | 1.1100e-003 | 0.1654 | 0.0436 | 1.0200e-003 | 0.0446 | | 156.9120 | 156.9120 | 4.2600e-003 | | 157.0185 |
| **Total** | **0.0654** | **0.0410** | **0.4933** | **1.5700e-003** | **0.1643** | **1.1100e-003** | **0.1654** | **0.0436** | **1.0200e-003** | **0.0446** | | **156.9120** | **156.9120** | **4.2600e-003** | | **157.0185** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **5.5401** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0381 | 0.0247 | 0.2918 | 9.0000e-004 | 0.0904 | 6.2000e-004 | 0.0910 | 0.0240 | 5.7000e-004 | 0.0245 | | 89.5885 | 89.5885 | 2.5600e-003 | | 89.6524 |
| **Total** | **0.0381** | **0.0247** | **0.2918** | **9.0000e-004** | **0.0904** | **6.2000e-004** | **0.0910** | **0.0240** | **5.7000e-004** | **0.0245** | | **89.5885** | **89.5885** | **2.5600e-003** | | **89.6524** |

**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 | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **5.5401** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0381 | 0.0247 | 0.2918 | 9.0000e-004 | 0.0904 | 6.2000e-004 | 0.0910 | 0.0240 | 5.7000e-004 | 0.0245 | | 89.5885 | 89.5885 | 2.5600e-003 | | 89.6524 |
| **Total** | **0.0381** | **0.0247** | **0.2918** | **9.0000e-004** | **0.0904** | **6.2000e-004** | **0.0910** | **0.0240** | **5.7000e-004** | **0.0245** | | **89.5885** | **89.5885** | **2.5600e-003** | | **89.6524** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **5.5258** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 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 | 0.0360 | 0.0225 | 0.2713 | 8.7000e-004 | 0.0904 | 6.1000e-004 | 0.0910 | 0.0240 | 5.6000e-004 | 0.0245 | | 86.3016 | 86.3016 | 2.3400e-003 | | 86.3602 |
| **Total** | **0.0360** | **0.0225** | **0.2713** | **8.7000e-004** | **0.0904** | **6.1000e-004** | **0.0910** | **0.0240** | **5.6000e-004** | **0.0245** | | **86.3016** | **86.3016** | **2.3400e-003** | | **86.3602** |

**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 | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **5.5258** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 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 | 0.0360 | 0.0225 | 0.2713 | 8.7000e-004 | 0.0904 | 6.1000e-004 | 0.0910 | 0.0240 | 5.6000e-004 | 0.0245 | | 86.3016 | 86.3016 | 2.3400e-003 | | 86.3602 |
| **Total** | **0.0360** | **0.0225** | **0.2713** | **8.7000e-004** | **0.0904** | **6.1000e-004** | **0.0910** | **0.0240** | **5.6000e-004** | **0.0245** | | **86.3016** | **86.3016** | **2.3400e-003** | | **86.3602** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.2859 | 1.1540 | 3.2151 | 0.0113 | 0.9745 | 9.0800e-003 | 0.9836 | 0.2604 | 8.4800e-003 | 0.2689 | | 1,149.1323 | 1,149.1323 | 0.0584 | | 1,150.5918 |
| Unmitigated | 0.2859 | 1.1540 | 3.2151 | 0.0113 | 0.9745 | 9.0800e-003 | 0.9836 | 0.2604 | 8.4800e-003 | 0.2689 | | 1,149.1323 | 1,149.1323 | 0.0584 | | 1,150.5918 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,505 | 14,505 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 175.23 | 175.23 | 175.23 | 445,079 | 445,079 |
| Total | 181.23 | 181.23 | 181.23 | 459,584 | 459,584 |

## 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 |
| Apartments Low Rise | 7.48 | 7.48 | 7.48 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 7.48 | 7.48 | 7.48 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.48 | 7.48 | 7.48 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Parking Lot | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Unrefrigerated Warehouse-No Rail | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |

## 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 | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| NaturalGas Unmitigated | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 30.7548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 400.859 | 4.3200e-003 | 0.0393 | 0.0330 | 2.4000e-004 | | 2.9900e-003 | 2.9900e-003 | | 2.9900e-003 | 2.9900e-003 | | 47.1599 | 47.1599 | 9.0000e-004 | 8.6000e-004 | 47.4402 |
| **Total** | | **4.6500e-003** | **0.0421** | **0.0342** | **2.6000e-004** | | **3.2200e-003** | **3.2200e-003** | | **3.2200e-003** | **3.2200e-003** | | **50.7782** | **50.7782** | **9.7000e-004** | **9.3000e-004** | **51.0799** |

**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 | | | | | |
| Apartments Low Rise | 0.0307548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.400859 | 4.3200e-003 | 0.0393 | 0.0330 | 2.4000e-004 | | 2.9900e-003 | 2.9900e-003 | | 2.9900e-003 | 2.9900e-003 | | 47.1599 | 47.1599 | 9.0000e-004 | 8.6000e-004 | 47.4402 |
| **Total** | | **4.6500e-003** | **0.0421** | **0.0342** | **2.6000e-004** | | **3.2200e-003** | **3.2200e-003** | | **3.2200e-003** | **3.2200e-003** | | **50.7782** | **50.7782** | **9.7000e-004** | **9.3000e-004** | **51.0799** |

# 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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Unmitigated | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |

## 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 | 0.2610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9310 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8700e-003 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1802 | 0.1802 | 2.3000e-004 | | 0.1859 |
| **Total** | **2.1959** | **1.0900e-003** | **0.0974** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1802** | **0.1802** | **2.3000e-004** | **0.0000** | **0.1859** |

## 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 | 0.2610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9310 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8700e-003 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1802 | 0.1802 | 2.3000e-004 | | 0.1859 |
| **Total** | **2.1959** | **1.0900e-003** | **0.0974** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1802** | **0.1802** | **2.3000e-004** | **0.0000** | **0.1859** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

# 8.0 Waste Detail

## 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

# 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

# 9603 All Right Storage - Cottonwood Avenue - Phase 1

**San Diego County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 87.61 | 1000sqft | 2.01 | 87,613.00 | 0 |
| Parking Lot | 57.00 | Space | 0.96 | 41,817.60 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2022 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
87,613 sf storage
57 RV parking spaces
1 care taker unit

Construction Phase - Phase 1 - 18 months construction (January 2021 - June 2022)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.48 miles
Storage - 2 trips/ksf
RV - 0.022 trips/RV
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 16,207,850 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 10.00 | 179.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 220.00 | 358.00 |
| tblConstructionPhase | NumDays | 6.00 | 10.00 |
| tblConstructionPhase | NumDays | 10.00 | 16.00 |
| tblConstructionPhase | NumDays | 3.00 | 5.00 |
| tblConstructionPhase | PhaseEndDate | 12/16/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 11/18/2021 | 6/8/2022 |
| tblConstructionPhase | PhaseEndDate | 1/14/2021 | 1/22/2021 |
| tblConstructionPhase | PhaseEndDate | 12/2/2021 | 6/30/2022 |
| tblConstructionPhase | PhaseEndDate | 1/6/2021 | 1/8/2021 |
| tblConstructionPhase | PhaseStartDate | 12/3/2021 | 10/1/2021 |
| tblConstructionPhase | PhaseStartDate | 1/15/2021 | 1/25/2021 |
| tblConstructionPhase | PhaseStartDate | 1/7/2021 | 1/11/2021 |
| tblConstructionPhase | PhaseStartDate | 11/19/2021 | 6/9/2022 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 22,800.00 | 41,817.60 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |
| tblLandUse | LotAcreage | 0.51 | 0.96 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |

| | | | |
|---|---|---|---|
| tblVehicleTrips | CC_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | CW_TL | 9.50 | 7.48 |
| tblVehicleTrips | HO_TL | 7.50 | 7.48 |
| tblVehicleTrips | HS_TL | 7.30 | 7.48 |
| tblVehicleTrips | HW_TL | 10.80 | 7.48 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 0.00 | 0.02 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 0.00 | 0.02 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 0.00 | 0.02 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 20,259,812.50 | 16,207,850.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2021 | 7.7669 | 40.5425 | 21.6031 | 0.0405 | 18.2141 | 2.0455 | 20.2596 | 9.9699 | 1.8819 | 11.8517 | 0.0000 | 3,935.4339 | 3,935.4339 | 1.1960 | 0.0000 | 3,952.8403 |
| 2022 | 7.5396 | 19.1900 | 20.2784 | 0.0403 | 0.6843 | 0.8984 | 1.5828 | 0.1847 | 0.8501 | 1.0348 | 0.0000 | 3,912.2040 | 3,912.2040 | 0.6885 | 0.0000 | 3,929.4163 |
| **Maximum** | **7.7669** | **40.5425** | **21.6031** | **0.0405** | **18.2141** | **2.0455** | **20.2596** | **9.9699** | **1.8819** | **11.8517** | **0.0000** | **3,935.4339** | **3,935.4339** | **1.1960** | **0.0000** | **3,952.8403** |

**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 | 7.7669 | 40.5425 | 21.6031 | 0.0405 | 18.2141 | 2.0455 | 20.2596 | 9.9699 | 1.8819 | 11.8517 | 0.0000 | 3,935.4339 | 3,935.4339 | 1.1960 | 0.0000 | 3,952.8403 |
| 2022 | 7.5396 | 19.1900 | 20.2784 | 0.0403 | 0.6843 | 0.8984 | 1.5828 | 0.1847 | 0.8501 | 1.0348 | 0.0000 | 3,912.2040 | 3,912.2040 | 0.6885 | 0.0000 | 3,929.4163 |
| **Maximum** | **7.7669** | **40.5425** | **21.6031** | **0.0405** | **18.2141** | **2.0455** | **20.2596** | **9.9699** | **1.8819** | **11.8517** | **0.0000** | **3,935.4339** | **3,935.4339** | **1.1960** | **0.0000** | **3,952.8403** |

| | **ROG** | **NOx** | **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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Energy | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| Mobile | 0.2771 | 1.1833 | 3.1711 | 0.0107 | 0.9745 | 9.1500e-003 | 0.9836 | 0.2604 | 8.5400e-003 | 0.2690 | | 1,089.8549 | 1,089.8549 | 0.0588 | | 1,091.3241 |
| **Total** | **2.4776** | **1.2265** | **3.3027** | **0.0110** | **0.9745** | **0.0129** | **0.9874** | **0.2604** | **0.0123** | **0.2727** | **0.0000** | **1,140.8132** | **1,140.8132** | **0.0600** | **9.3000e-004** | **1,142.5899** |

### 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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Energy | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| Mobile | 0.2771 | 1.1833 | 3.1711 | 0.0107 | 0.9745 | 9.1500e-003 | 0.9836 | 0.2604 | 8.5400e-003 | 0.2690 | | 1,089.8549 | 1,089.8549 | 0.0588 | | 1,091.3241 |
| **Total** | **2.4776** | **1.2265** | **3.3027** | **0.0110** | **0.9745** | **0.0129** | **0.9874** | **0.2604** | **0.0123** | **0.2727** | **0.0000** | **1,140.8132** | **1,140.8132** | **0.0600** | **9.3000e-004** | **1,142.5899** |

| | ROG | NOx | 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 | 1/8/2021 | 5 | 5 | |
| 2 | Grading | Grading | 1/11/2021 | 1/22/2021 | 5 | 10 | |
| 3 | Building Construction | Building Construction | 1/25/2021 | 6/8/2022 | 5 | 358 | |
| 4 | Paving | Paving | 6/9/2022 | 6/30/2022 | 5 | 16 | |
| 5 | Architectural Coating | Architectural Coating | 10/1/2021 | 6/8/2022 | 5 | 179 | |

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

**Acres of Grading (Grading Phase): 5**

**Acres of Paving: 0.96**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 131,420; Non-Residential Outdoor: 43,807; Striped Parking Area: 2,509 (Architectural Coating – sqft)**

**OffRoad Equipment**

9603 All Right Storage - Cottonwood Avenue - Phase 1 - San Diego County APCD 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 | Tractors/Loaders/Backhoes | 3 | 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 | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

## 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 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 55.00 | 21.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 11.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 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 | 0.0706 | 0.0454 | 0.4488 | 1.3800e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 137.6186 | 137.6186 | 3.9500e-003 | | 137.7174 |
| **Total** | **0.0706** | **0.0454** | **0.4488** | **1.3800e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **137.6186** | **137.6186** | **3.9500e-003** | | **137.7174** |

### 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 | | | | | 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 | 0.0000 | 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** | **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 | 0.0706 | 0.0454 | 0.4488 | 1.3800e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 137.6186 | 137.6186 | 3.9500e-003 | | 137.7174 |
| **Total** | **0.0706** | **0.0454** | **0.4488** | **1.3800e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **137.6186** | **137.6186** | **3.9500e-003** | | **137.7174** |

## 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| **Total** | **2.2903** | **24.7367** | **15.8575** | **0.0296** | **6.5523** | **1.1599** | **7.7123** | **3.3675** | **1.0671** | **4.4346** | | **2,871.9285** | **2,871.9285** | **0.9288** | | **2,895.1495** |

## 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 | 0.0588 | 0.0378 | 0.3740 | 1.1500e-003 | 0.1232 | 8.5000e-004 | 0.1241 | 0.0327 | 7.8000e-004 | 0.0335 | | 114.6821 | 114.6821 | 3.2900e-003 | | 114.7645 |
| **Total** | **0.0588** | **0.0378** | **0.3740** | **1.1500e-003** | **0.1232** | **8.5000e-004** | **0.1241** | **0.0327** | **7.8000e-004** | **0.0335** | | **114.6821** | **114.6821** | **3.2900e-003** | | **114.7645** |

### 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.2903 | 24.7367 | 15.8575 | 0.0296 | | 1.1599 | 1.1599 | | 1.0671 | 1.0671 | 0.0000 | 2,871.9285 | 2,871.9285 | 0.9288 | | 2,895.1495 |
| **Total** | **2.2903** | **24.7367** | **15.8575** | **0.0296** | **6.5523** | **1.1599** | **7.7123** | **3.3675** | **1.0671** | **4.4346** | **0.0000** | **2,871.9285** | **2,871.9285** | **0.9288** | | **2,895.1495** |

## 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 | 0.0588 | 0.0378 | 0.3740 | 1.1500e-003 | 0.1232 | 8.5000e-004 | 0.1241 | 0.0327 | 7.8000e-004 | 0.0335 | | 114.6821 | 114.6821 | 3.2900e-003 | | 114.7645 |
| **Total** | **0.0588** | **0.0378** | **0.3740** | **1.1500e-003** | **0.1232** | **8.5000e-004** | **0.1241** | **0.0327** | **7.8000e-004** | **0.0335** | | **114.6821** | **114.6821** | **3.2900e-003** | | **114.7645** |

## 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 | 0.0669 | 2.1327 | 0.6068 | 5.5400e-003 | 0.1422 | 4.6700e-003 | 0.1468 | 0.0409 | 4.4700e-003 | 0.0454 | | 596.0205 | 596.0205 | 0.0464 | | 597.1813 |
| Worker | 0.2157 | 0.1387 | 1.3713 | 4.2200e-003 | 0.4518 | 3.1200e-003 | 0.4549 | 0.1198 | 2.8700e-003 | 0.1227 | | 420.5012 | 420.5012 | 0.0121 | | 420.8032 |
| **Total** | **0.2827** | **2.2715** | **1.9781** | **9.7600e-003** | **0.5940** | **7.7900e-003** | **0.6018** | **0.1608** | **7.3400e-003** | **0.1681** | | **1,016.5217** | **1,016.5217** | **0.0585** | | **1,017.9845** |

### 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 | 0.0669 | 2.1327 | 0.6068 | 5.5400e-003 | 0.1422 | 4.6700e-003 | 0.1468 | 0.0409 | 4.4700e-003 | 0.0454 | | 596.0205 | 596.0205 | 0.0464 | | 597.1813 |
| Worker | 0.2157 | 0.1387 | 1.3713 | 4.2200e-003 | 0.4518 | 3.1200e-003 | 0.4549 | 0.1198 | 2.8700e-003 | 0.1227 | | 420.5012 | 420.5012 | 0.0121 | | 420.8032 |
| **Total** | **0.2827** | **2.2715** | **1.9781** | **9.7600e-003** | **0.5940** | **7.7900e-003** | **0.6018** | **0.1608** | **7.3400e-003** | **0.1681** | | **1,016.5217** | **1,016.5217** | **0.0585** | | **1,017.9845** |

## 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 | 0.0623 | 2.0141 | 0.5745 | 5.4800e-003 | 0.1422 | 4.0300e-003 | 0.1462 | 0.0409 | 3.8500e-003 | 0.0448 | | 590.3155 | 590.3155 | 0.0450 | | 591.4392 |
| Worker | 0.2044 | 0.1265 | 1.2724 | 4.0600e-003 | 0.4518 | 3.0500e-003 | 0.4549 | 0.1198 | 2.8100e-003 | 0.1227 | | 405.0891 | 405.0891 | 0.0111 | | 405.3656 |
| **Total** | **0.2667** | **2.1405** | **1.8469** | **9.5400e-003** | **0.5940** | **7.0800e-003** | **0.6011** | **0.1608** | **6.6600e-003** | **0.1674** | | **995.4046** | **995.4046** | **0.0560** | | **996.8048** |

### 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 | 0.0623 | 2.0141 | 0.5745 | 5.4800e-003 | 0.1422 | 4.0300e-003 | 0.1462 | 0.0409 | 3.8500e-003 | 0.0448 | | 590.3155 | 590.3155 | 0.0450 | | 591.4392 |
| Worker | 0.2044 | 0.1265 | 1.2724 | 4.0600e-003 | 0.4518 | 3.0500e-003 | 0.4549 | 0.1198 | 2.8100e-003 | 0.1227 | | 405.0891 | 405.0891 | 0.0111 | | 405.3656 |
| **Total** | **0.2667** | **2.1405** | **1.8469** | **9.5400e-003** | **0.5940** | **7.0800e-003** | **0.6011** | **0.1608** | **6.6600e-003** | **0.1674** | | **995.4046** | **995.4046** | **0.0560** | | **996.8048** |

## 3.5 Paving - 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 | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.1572 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.1337** | **9.5221** | **12.1940** | **0.0189** | | **0.4877** | **0.4877** | | **0.4504** | **0.4504** | | **1,805.1297** | **1,805.1297** | **0.5672** | | **1,819.3091** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 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 | 0.0743 | 0.0460 | 0.4627 | 1.4800e-003 | 0.1643 | 1.1100e-003 | 0.1654 | 0.0436 | 1.0200e-003 | 0.0446 | | 147.3051 | 147.3051 | 4.0200e-003 | | 147.4057 |
| **Total** | **0.0743** | **0.0460** | **0.4627** | **1.4800e-003** | **0.1643** | **1.1100e-003** | **0.1654** | **0.0436** | **1.0200e-003** | **0.0446** | | **147.3051** | **147.3051** | **4.0200e-003** | | **147.4057** |

### 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 | 0.9765 | 9.5221 | 12.1940 | 0.0189 | | 0.4877 | 0.4877 | | 0.4504 | 0.4504 | 0.0000 | 1,805.1297 | 1,805.1297 | 0.5672 | | 1,819.3091 |
| Paving | 0.1572 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.1337** | **9.5221** | **12.1940** | **0.0189** | | **0.4877** | **0.4877** | | **0.4504** | **0.4504** | **0.0000** | **1,805.1297** | **1,805.1297** | **0.5672** | | **1,819.3091** |

## 3.5 Paving - 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 | 0.0000 | 0.0000 | 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 | 0.0743 | 0.0460 | 0.4627 | 1.4800e-003 | 0.1643 | 1.1100e-003 | 0.1654 | 0.0436 | 1.0200e-003 | 0.0446 | | 147.3051 | 147.3051 | 4.0200e-003 | | 147.4057 |
| **Total** | **0.0743** | **0.0460** | **0.4627** | **1.4800e-003** | **0.1643** | **1.1100e-003** | **0.1654** | **0.0436** | **1.0200e-003** | **0.0446** | | **147.3051** | **147.3051** | **4.0200e-003** | | **147.4057** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **5.5401** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0432 | 0.0278 | 0.2743 | 8.4000e-004 | 0.0904 | 6.2000e-004 | 0.0910 | 0.0240 | 5.7000e-004 | 0.0245 | | 84.1002 | 84.1002 | 2.4200e-003 | | 84.1606 |
| **Total** | **0.0432** | **0.0278** | **0.2743** | **8.4000e-004** | **0.0904** | **6.2000e-004** | **0.0910** | **0.0240** | **5.7000e-004** | **0.0245** | | **84.1002** | **84.1002** | **2.4200e-003** | | **84.1606** |

**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 | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **5.5401** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0432 | 0.0278 | 0.2743 | 8.4000e-004 | 0.0904 | 6.2000e-004 | 0.0910 | 0.0240 | 5.7000e-004 | 0.0245 | | 84.1002 | 84.1002 | 2.4200e-003 | | 84.1606 |
| **Total** | **0.0432** | **0.0278** | **0.2743** | **8.4000e-004** | **0.0904** | **6.2000e-004** | **0.0910** | **0.0240** | **5.7000e-004** | **0.0245** | | **84.1002** | **84.1002** | **2.4200e-003** | | **84.1606** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **5.5258** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 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 | 0.0409 | 0.0253 | 0.2545 | 8.1000e-004 | 0.0904 | 6.1000e-004 | 0.0910 | 0.0240 | 5.6000e-004 | 0.0245 | | 81.0178 | 81.0178 | 2.2100e-003 | | 81.0731 |
| **Total** | **0.0409** | **0.0253** | **0.2545** | **8.1000e-004** | **0.0904** | **6.1000e-004** | **0.0910** | **0.0240** | **5.6000e-004** | **0.0245** | | **81.0178** | **81.0178** | **2.2100e-003** | | **81.0731** |

**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 | 5.3212 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2045 | 1.4085 | 1.8136 | 2.9700e-003 | | 0.0817 | 0.0817 | | 0.0817 | 0.0817 | 0.0000 | 281.4481 | 281.4481 | 0.0183 | | 281.9062 |
| **Total** | **5.5258** | **1.4085** | **1.8136** | **2.9700e-003** | | **0.0817** | **0.0817** | | **0.0817** | **0.0817** | **0.0000** | **281.4481** | **281.4481** | **0.0183** | | **281.9062** |

## 3.6 Architectural Coating - 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 | 0.0000 | 0.0000 | 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 | 0.0409 | 0.0253 | 0.2545 | 8.1000e-004 | 0.0904 | 6.1000e-004 | 0.0910 | 0.0240 | 5.6000e-004 | 0.0245 | | 81.0178 | 81.0178 | 2.2100e-003 | | 81.0731 |
| **Total** | **0.0409** | **0.0253** | **0.2545** | **8.1000e-004** | **0.0904** | **6.1000e-004** | **0.0910** | **0.0240** | **5.6000e-004** | **0.0245** | | **81.0178** | **81.0178** | **2.2100e-003** | | **81.0731** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.2771 | 1.1833 | 3.1711 | 0.0107 | 0.9745 | 9.1500e-003 | 0.9836 | 0.2604 | 8.5400e-003 | 0.2690 | | 1,089.8549 | 1,089.8549 | 0.0588 | | 1,091.3241 |
| Unmitigated | 0.2771 | 1.1833 | 3.1711 | 0.0107 | 0.9745 | 9.1500e-003 | 0.9836 | 0.2604 | 8.5400e-003 | 0.2690 | | 1,089.8549 | 1,089.8549 | 0.0588 | | 1,091.3241 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,505 | 14,505 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 175.23 | 175.23 | 175.23 | 445,079 | 445,079 |
| Total | 181.23 | 181.23 | 181.23 | 459,584 | 459,584 |

## 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 |
| Apartments Low Rise | 7.48 | 7.48 | 7.48 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Parking Lot | 7.48 | 7.48 | 7.48 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.48 | 7.48 | 7.48 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Parking Lot | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |
| Unrefrigerated Warehouse-No Rail | 0.598645 | 0.040929 | 0.181073 | 0.106149 | 0.015683 | 0.005479 | 0.016317 | 0.023976 | 0.001926 | 0.001932 | 0.006016 | 0.000753 | 0.001122 |

## 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 | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |
| NaturalGas Unmitigated | 4.6500e-003 | 0.0421 | 0.0342 | 2.5000e-004 | | 3.2200e-003 | 3.2200e-003 | | 3.2200e-003 | 3.2200e-003 | | 50.7782 | 50.7782 | 9.7000e-004 | 9.3000e-004 | 51.0799 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 30.7548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 400.859 | 4.3200e-003 | 0.0393 | 0.0330 | 2.4000e-004 | | 2.9900e-003 | 2.9900e-003 | | 2.9900e-003 | 2.9900e-003 | | 47.1599 | 47.1599 | 9.0000e-004 | 8.6000e-004 | 47.4402 |
| **Total** | | **4.6500e-003** | **0.0421** | **0.0342** | **2.6000e-004** | | **3.2200e-003** | **3.2200e-003** | | **3.2200e-003** | **3.2200e-003** | | **50.7782** | **50.7782** | **9.7000e-004** | **9.3000e-004** | **51.0799** |

**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 | | | | | |
| Apartments Low Rise | 0.0307548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Parking Lot | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.400859 | 4.3200e-003 | 0.0393 | 0.0330 | 2.4000e-004 | | 2.9900e-003 | 2.9900e-003 | | 2.9900e-003 | 2.9900e-003 | | 47.1599 | 47.1599 | 9.0000e-004 | 8.6000e-004 | 47.4402 |
| **Total** | | **4.6500e-003** | **0.0421** | **0.0342** | **2.6000e-004** | | **3.2200e-003** | **3.2200e-003** | | **3.2200e-003** | **3.2200e-003** | | **50.7782** | **50.7782** | **9.7000e-004** | **9.3000e-004** | **51.0799** |

# 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 | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |
| Unmitigated | 2.1959 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1802 | 0.1802 | 2.3000e-004 | 0.0000 | 0.1859 |

## 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 | 0.2610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9310 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8700e-003 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1802 | 0.1802 | 2.3000e-004 | | 0.1859 |
| **Total** | **2.1959** | **1.0900e-003** | **0.0974** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1802** | **0.1802** | **2.3000e-004** | **0.0000** | **0.1859** |

### 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 | 0.2610 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.9310 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8700e-003 | 1.0900e-003 | 0.0974 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1802 | 0.1802 | 2.3000e-004 | | 0.1859 |
| **Total** | **2.1959** | **1.0900e-003** | **0.0974** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1802** | **0.1802** | **2.3000e-004** | **0.0000** | **0.1859** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phase 2

**San Diego County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 58.92 | 1000sqft | 0.73 | 58,915.00 | 0 |
| Other Asphalt Surfaces | 0.27 | Acre | 0.27 | 11,761.20 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 1.0 acres of 3.0 acre site
58,915 sf storage

Construction Phase - Phase 2 - 18 months construction (July 2025 - December 2026)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (10,898,350 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 5.00 | 182.00 |
| tblConstructionPhase | NumDays | 100.00 | 364.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 5.00 | 18.00 |
| tblConstructionPhase | NumDays | 1.00 | 11.00 |
| tblConstructionPhase | PhaseEndDate | 12/4/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/20/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/27/2025 | 12/31/2026 |
| tblConstructionPhase | PhaseEndDate | 7/1/2025 | 7/15/2025 |
| tblConstructionPhase | PhaseStartDate | 11/28/2025 | 3/27/2026 |
| tblConstructionPhase | PhaseStartDate | 7/4/2025 | 7/16/2025 |
| tblConstructionPhase | PhaseStartDate | 11/21/2025 | 12/8/2026 |
| tblLandUse | LotAcreage | 1.35 | 0.73 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 13,622,937.50 | 10,898,350.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2025 | 0.0925 | 0.7453 | 0.8392 | 1.7400e-003 | 0.0516 | 0.0262 | 0.0778 | 0.0216 | 0.0252 | 0.0468 | 0.0000 | 147.4222 | 147.4222 | 0.0221 | 0.0000 | 147.9750 |
| 2026 | 0.5055 | 1.5308 | 1.8633 | 3.7100e-003 | 0.0442 | 0.0549 | 0.0992 | 0.0120 | 0.0531 | 0.0650 | 0.0000 | 315.4870 | 315.4870 | 0.0437 | 0.0000 | 316.5783 |
| **Maximum** | **0.5055** | **1.5308** | **1.8633** | **3.7100e-003** | **0.0516** | **0.0549** | **0.0992** | **0.0216** | **0.0531** | **0.0650** | **0.0000** | **315.4870** | **315.4870** | **0.0437** | **0.0000** | **316.5783** |

### 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 | | | | | |
| 2025 | 0.0925 | 0.7453 | 0.8392 | 1.7400e-003 | 0.0516 | 0.0262 | 0.0778 | 0.0216 | 0.0252 | 0.0468 | 0.0000 | 147.4221 | 147.4221 | 0.0221 | 0.0000 | 147.9749 |
| 2026 | 0.5055 | 1.5308 | 1.8633 | 3.7100e-003 | 0.0442 | 0.0549 | 0.0992 | 0.0120 | 0.0531 | 0.0650 | 0.0000 | 315.4867 | 315.4867 | 0.0437 | 0.0000 | 316.5780 |
| **Maximum** | **0.5055** | **1.5308** | **1.8633** | **3.7100e-003** | **0.0516** | **0.0549** | **0.0992** | **0.0216** | **0.0531** | **0.0650** | **0.0000** | **315.4867** | **315.4867** | **0.0437** | **0.0000** | **316.5780** |

| | **ROG** | **NOx** | **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) |
|---|---|---|---|---|
| **1** | **7-1-2025** | **9-30-2025** | 0.4137 | 0.4137 |
| **2** | **10-1-2025** | **12-31-2025** | 0.4203 | 0.4203 |
| **3** | **1-1-2026** | **3-31-2026** | 0.4190 | 0.4190 |
| **4** | **4-1-2026** | **6-30-2026** | 0.5685 | 0.5685 |
| **5** | **7-1-2026** | **9-30-2026** | 0.5747 | 0.5747 |
| | | **Highest** | 0.5747 | 0.5747 |

## 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 | 0.2618 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| Energy | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 49.0753 | 49.0753 | 1.8600e-003 | 4.9000e-004 | 49.2666 |
| Mobile | 0.0240 | 0.1001 | 0.2744 | 1.0500e-003 | 0.1088 | 8.0000e-004 | 0.1096 | 0.0291 | 7.4000e-004 | 0.0299 | 0.0000 | 97.5965 | 97.5965 | 4.8300e-003 | 0.0000 | 97.7173 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 11.2416 | 0.0000 | 11.2416 | 0.6644 | 0.0000 | 27.8507 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.4575 | 28.9206 | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |
| **Total** | **0.2864** | **0.1049** | **0.2790** | **1.0800e-003** | **0.1088** | **1.1700e-003** | **0.1100** | **0.0291** | **1.1100e-003** | **0.0303** | **14.6992** | **175.5935** | **190.2926** | **1.0273** | **9.1300e-003** | **218.6964** |

## 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 | 0.2618 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| Energy | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 49.0753 | 49.0753 | 1.8600e-003 | 4.9000e-004 | 49.2666 |
| Mobile | 0.0240 | 0.1001 | 0.2744 | 1.0500e-003 | 0.1088 | 8.0000e-004 | 0.1096 | 0.0291 | 7.4000e-004 | 0.0299 | 0.0000 | 97.5965 | 97.5965 | 4.8300e-003 | 0.0000 | 97.7173 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.4312 | 0.0000 | 8.4312 | 0.4983 | 0.0000 | 20.8880 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 3.4575 | 28.9206 | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |
| **Total** | **0.2864** | **0.1049** | **0.2790** | **1.0800e-003** | **0.1088** | **1.1700e-003** | **0.1100** | **0.0291** | **1.1100e-003** | **0.0303** | **11.8888** | **175.5935** | **187.4822** | **0.8612** | **9.1300e-003** | **211.7337** |

| | ROG | NOx | 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** | **19.12** | **0.00** | **1.48** | **16.17** | **0.00** | **3.18** |

## 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 | 7/1/2025 | 7/15/2025 | 5 | 11 | |
| 2 | Building Construction | Building Construction | 7/16/2025 | 12/7/2026 | 5 | 364 | |
| 3 | Paving | Paving | 12/8/2026 | 12/31/2026 | 5 | 18 | |
| 4 | Architectural Coating | Architectural Coating | 3/27/2026 | 12/7/2026 | 5 | 182 | |

**Acres of Grading (Site Preparation Phase): 5.5**

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

**Acres of Paving: 0.27**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 88,373; Non-Residential Outdoor: 29,458; Striped Parking Area: 706 (Architectural Coating – sqft)**

**<u>OffRoad Equipment</u>**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 30.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 6.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0319 | 0.0000 | 0.0319 | 0.0163 | 0.0000 | 0.0163 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.5600e-003 | 0.0583 | 0.0355 | 9.0000e-005 | | 2.3100e-003 | 2.3100e-003 | | 2.1200e-003 | 2.1200e-003 | 0.0000 | 8.3120 | 8.3120 | 2.6900e-003 | 0.0000 | 8.3792 |
| **Total** | **5.5600e-003** | **0.0583** | **0.0355** | **9.0000e-005** | **0.0319** | **2.3100e-003** | **0.0342** | **0.0163** | **2.1200e-003** | **0.0184** | **0.0000** | **8.3120** | **8.3120** | **2.6900e-003** | **0.0000** | **8.3792** |

### 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 | 1.2000e-004 | 8.0000e-005 | 8.2000e-004 | 0.0000 | 3.5000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2633 | 0.2633 | 1.0000e-005 | 0.0000 | 0.2634 |
| **Total** | **1.2000e-004** | **8.0000e-005** | **8.2000e-004** | **0.0000** | **3.5000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2633** | **0.2633** | **1.0000e-005** | **0.0000** | **0.2634** |

## 3.2 Site Preparation - 2025

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0319 | 0.0000 | 0.0319 | 0.0163 | 0.0000 | 0.0163 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 5.5600e-003 | 0.0583 | 0.0355 | 9.0000e-005 | | 2.3100e-003 | 2.3100e-003 | | 2.1200e-003 | 2.1200e-003 | 0.0000 | 8.3120 | 8.3120 | 2.6900e-003 | 0.0000 | 8.3792 |
| **Total** | **5.5600e-003** | **0.0583** | **0.0355** | **9.0000e-005** | **0.0319** | **2.3100e-003** | **0.0342** | **0.0163** | **2.1200e-003** | **0.0184** | **0.0000** | **8.3120** | **8.3120** | **2.6900e-003** | **0.0000** | **8.3792** |

### 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 | 1.2000e-004 | 8.0000e-005 | 8.2000e-004 | 0.0000 | 3.5000e-004 | 0.0000 | 3.6000e-004 | 9.0000e-005 | 0.0000 | 1.0000e-004 | 0.0000 | 0.2633 | 0.2633 | 1.0000e-005 | 0.0000 | 0.2634 |
| **Total** | **1.2000e-004** | **8.0000e-005** | **8.2000e-004** | **0.0000** | **3.5000e-004** | **0.0000** | **3.6000e-004** | **9.0000e-005** | **0.0000** | **1.0000e-004** | **0.0000** | **0.2633** | **0.2633** | **1.0000e-005** | **0.0000** | **0.2634** |

## 3.3 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 | 0.0801 | 0.6300 | 0.7526 | 1.3300e-003 | | 0.0238 | 0.0238 | | 0.0229 | 0.0229 | 0.0000 | 109.8875 | 109.8875 | 0.0179 | 0.0000 | 110.3360 |
| **Total** | **0.0801** | **0.6300** | **0.7526** | **1.3300e-003** | | **0.0238** | **0.0238** | | **0.0229** | **0.0229** | **0.0000** | **109.8875** | **109.8875** | **0.0179** | **0.0000** | **110.3360** |

**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 | 1.5100e-003 | 0.0538 | 0.0163 | 1.8000e-004 | 4.8200e-003 | 6.0000e-005 | 4.8800e-003 | 1.3900e-003 | 6.0000e-005 | 1.4500e-003 | 0.0000 | 18.1002 | 18.1002 | 1.2200e-003 | 0.0000 | 18.1307 |
| Worker | 5.1400e-003 | 3.1700e-003 | 0.0340 | 1.2000e-004 | 0.0146 | 1.0000e-004 | 0.0147 | 3.8700e-003 | 9.0000e-005 | 3.9600e-003 | 0.0000 | 10.8593 | 10.8593 | 2.6000e-004 | 0.0000 | 10.8657 |
| **Total** | **6.6500e-003** | **0.0570** | **0.0503** | **3.0000e-004** | **0.0194** | **1.6000e-004** | **0.0195** | **5.2600e-003** | **1.5000e-004** | **5.4100e-003** | **0.0000** | **28.9595** | **28.9595** | **1.4800e-003** | **0.0000** | **28.9964** |

## 3.3 Building Construction - 2025

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0801 | 0.6300 | 0.7526 | 1.3300e-003 | | 0.0238 | 0.0238 | | 0.0229 | 0.0229 | 0.0000 | 109.8874 | 109.8874 | 0.0179 | 0.0000 | 110.3359 |
| **Total** | **0.0801** | **0.6300** | **0.7526** | **1.3300e-003** | | **0.0238** | **0.0238** | | **0.0229** | **0.0229** | **0.0000** | **109.8874** | **109.8874** | **0.0179** | **0.0000** | **110.3359** |

### 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 | 1.5100e-003 | 0.0538 | 0.0163 | 1.8000e-004 | 4.8200e-003 | 6.0000e-005 | 4.8800e-003 | 1.3900e-003 | 6.0000e-005 | 1.4500e-003 | 0.0000 | 18.1002 | 18.1002 | 1.2200e-003 | 0.0000 | 18.1307 |
| Worker | 5.1400e-003 | 3.1700e-003 | 0.0340 | 1.2000e-004 | 0.0146 | 1.0000e-004 | 0.0147 | 3.8700e-003 | 9.0000e-005 | 3.9600e-003 | 0.0000 | 10.8593 | 10.8593 | 2.6000e-004 | 0.0000 | 10.8657 |
| **Total** | **6.6500e-003** | **0.0570** | **0.0503** | **3.0000e-004** | **0.0194** | **1.6000e-004** | **0.0195** | **5.2600e-003** | **1.5000e-004** | **5.4100e-003** | **0.0000** | **28.9595** | **28.9595** | **1.4800e-003** | **0.0000** | **28.9964** |

## 3.3 Building Construction - 2026

**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 | 0.1609 | 1.2652 | 1.5114 | 2.6800e-003 | | 0.0477 | 0.0477 | | 0.0460 | 0.0460 | 0.0000 | 220.6831 | 220.6831 | 0.0360 | 0.0000 | 221.5839 |
| **Total** | **0.1609** | **1.2652** | **1.5114** | **2.6800e-003** | | **0.0477** | **0.0477** | | **0.0460** | **0.0460** | **0.0000** | **220.6831** | **220.6831** | **0.0360** | **0.0000** | **221.5839** |

**Unmitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.9500e-003 | 0.1065 | 0.0322 | 3.7000e-004 | 9.6800e-003 | 1.2000e-004 | 9.8000e-003 | 2.7900e-003 | 1.2000e-004 | 2.9100e-003 | 0.0000 | 36.1420 | 36.1420 | 2.4200e-003 | 0.0000 | 36.2025 |
| Worker | 9.9000e-003 | 5.9200e-003 | 0.0642 | 2.3000e-004 | 0.0292 | 1.9000e-004 | 0.0294 | 7.7700e-003 | 1.7000e-004 | 7.9400e-003 | 0.0000 | 21.0096 | 21.0096 | 4.8000e-004 | 0.0000 | 21.0217 |
| **Total** | **0.0129** | **0.1124** | **0.0964** | **6.0000e-004** | **0.0389** | **3.1000e-004** | **0.0392** | **0.0106** | **2.9000e-004** | **0.0109** | **0.0000** | **57.1516** | **57.1516** | **2.9000e-003** | **0.0000** | **57.2242** |

## 3.3 Building Construction - 2026

**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 | 0.1609 | 1.2652 | 1.5114 | 2.6800e-003 | | 0.0477 | 0.0477 | | 0.0460 | 0.0460 | 0.0000 | 220.6829 | 220.6829 | 0.0360 | 0.0000 | 221.5837 |
| **Total** | **0.1609** | **1.2652** | **1.5114** | **2.6800e-003** | | **0.0477** | **0.0477** | | **0.0460** | **0.0460** | **0.0000** | **220.6829** | **220.6829** | **0.0360** | **0.0000** | **221.5837** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.9500e-003 | 0.1065 | 0.0322 | 3.7000e-004 | 9.6800e-003 | 1.2000e-004 | 9.8000e-003 | 2.7900e-003 | 1.2000e-004 | 2.9100e-003 | 0.0000 | 36.1420 | 36.1420 | 2.4200e-003 | 0.0000 | 36.2025 |
| Worker | 9.9000e-003 | 5.9200e-003 | 0.0642 | 2.3000e-004 | 0.0292 | 1.9000e-004 | 0.0294 | 7.7700e-003 | 1.7000e-004 | 7.9400e-003 | 0.0000 | 21.0096 | 21.0096 | 4.8000e-004 | 0.0000 | 21.0217 |
| **Total** | **0.0129** | **0.1124** | **0.0964** | **6.0000e-004** | **0.0389** | **3.1000e-004** | **0.0392** | **0.0106** | **2.9000e-004** | **0.0109** | **0.0000** | **57.1516** | **57.1516** | **2.9000e-003** | **0.0000** | **57.2242** |

## 3.4 Paving - 2026

### 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 | 5.1600e-003 | 0.0479 | 0.0792 | 1.2000e-004 | | 2.2200e-003 | 2.2200e-003 | | 2.0500e-003 | 2.0500e-003 | 0.0000 | 10.5962 | 10.5962 | 3.3600e-003 | 0.0000 | 10.6802 |
| Paving | 3.5000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **5.5100e-003** | **0.0479** | **0.0792** | **1.2000e-004** | | **2.2200e-003** | **2.2200e-003** | | **2.0500e-003** | **2.0500e-003** | **0.0000** | **10.5962** | **10.5962** | **3.3600e-003** | **0.0000** | **10.6802** |

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.2000e-004 | 1.9000e-004 | 2.0600e-003 | 1.0000e-005 | 9.4000e-004 | 1.0000e-005 | 9.4000e-004 | 2.5000e-004 | 1.0000e-005 | 2.5000e-004 | 0.0000 | 0.6744 | 0.6744 | 2.0000e-005 | 0.0000 | 0.6748 |
| **Total** | **3.2000e-004** | **1.9000e-004** | **2.0600e-003** | **1.0000e-005** | **9.4000e-004** | **1.0000e-005** | **9.4000e-004** | **2.5000e-004** | **1.0000e-005** | **2.5000e-004** | **0.0000** | **0.6744** | **0.6744** | **2.0000e-005** | **0.0000** | **0.6748** |

## 3.4 Paving - 2026

**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 | 5.1600e-003 | 0.0479 | 0.0792 | 1.2000e-004 | | 2.2200e-003 | 2.2200e-003 | | 2.0500e-003 | 2.0500e-003 | 0.0000 | 10.5962 | 10.5962 | 3.3600e-003 | 0.0000 | 10.6801 |
| Paving | 3.5000e-004 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **5.5100e-003** | **0.0479** | **0.0792** | **1.2000e-004** | | **2.2200e-003** | **2.2200e-003** | | **2.0500e-003** | **2.0500e-003** | **0.0000** | **10.5962** | **10.5962** | **3.3600e-003** | **0.0000** | **10.6801** |

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 3.2000e-004 | 1.9000e-004 | 2.0600e-003 | 1.0000e-005 | 9.4000e-004 | 1.0000e-005 | 9.4000e-004 | 2.5000e-004 | 1.0000e-005 | 2.5000e-004 | 0.0000 | 0.6744 | 0.6744 | 2.0000e-005 | 0.0000 | 0.6748 |
| **Total** | **3.2000e-004** | **1.9000e-004** | **2.0600e-003** | **1.0000e-005** | **9.4000e-004** | **1.0000e-005** | **9.4000e-004** | **2.5000e-004** | **1.0000e-005** | **2.5000e-004** | **0.0000** | **0.6744** | **0.6744** | **2.0000e-005** | **0.0000** | **0.6748** |

## 3.5 Architectural Coating - 2026

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.3088 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0156 | 0.1042 | 0.1646 | 2.7000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 23.2346 | 23.2346 | 1.2700e-003 | 0.0000 | 23.2663 |
| **Total** | **0.3244** | **0.1042** | **0.1646** | **2.7000e-004** | | **4.6900e-003** | **4.6900e-003** | | **4.6900e-003** | **4.6900e-003** | **0.0000** | **23.2346** | **23.2346** | **1.2700e-003** | **0.0000** | **23.2663** |

**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 | 1.4800e-003 | 8.9000e-004 | 9.6200e-003 | 3.0000e-005 | 4.3800e-003 | 3.0000e-005 | 4.4100e-003 | 1.1600e-003 | 3.0000e-005 | 1.1900e-003 | 0.0000 | 3.1471 | 3.1471 | 7.0000e-005 | 0.0000 | 3.1489 |
| **Total** | **1.4800e-003** | **8.9000e-004** | **9.6200e-003** | **3.0000e-005** | **4.3800e-003** | **3.0000e-005** | **4.4100e-003** | **1.1600e-003** | **3.0000e-005** | **1.1900e-003** | **0.0000** | **3.1471** | **3.1471** | **7.0000e-005** | **0.0000** | **3.1489** |

## 3.5 Architectural Coating - 2026

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.3088 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0156 | 0.1042 | 0.1646 | 2.7000e-004 | | 4.6900e-003 | 4.6900e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 23.2346 | 23.2346 | 1.2700e-003 | 0.0000 | 23.2663 |
| **Total** | **0.3244** | **0.1042** | **0.1646** | **2.7000e-004** | | **4.6900e-003** | **4.6900e-003** | | **4.6900e-003** | **4.6900e-003** | **0.0000** | **23.2346** | **23.2346** | **1.2700e-003** | **0.0000** | **23.2663** |

**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 | 1.4800e-003 | 8.9000e-004 | 9.6200e-003 | 3.0000e-005 | 4.3800e-003 | 3.0000e-005 | 4.4100e-003 | 1.1600e-003 | 3.0000e-005 | 1.1900e-003 | 0.0000 | 3.1471 | 3.1471 | 7.0000e-005 | 0.0000 | 3.1489 |
| **Total** | **1.4800e-003** | **8.9000e-004** | **9.6200e-003** | **3.0000e-005** | **4.3800e-003** | **3.0000e-005** | **4.4100e-003** | **1.1600e-003** | **3.0000e-005** | **1.1900e-003** | **0.0000** | **3.1471** | **3.1471** | **7.0000e-005** | **0.0000** | **3.1489** |

## 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 | 0.0240 | 0.1001 | 0.2744 | 1.0500e-003 | 0.1088 | 8.0000e-004 | 0.1096 | 0.0291 | 7.4000e-004 | 0.0299 | 0.0000 | 97.5965 | 97.5965 | 4.8300e-003 | 0.0000 | 97.7173 |
| Unmitigated | 0.0240 | 0.1001 | 0.2744 | 1.0500e-003 | 0.1088 | 8.0000e-004 | 0.1096 | 0.0291 | 7.4000e-004 | 0.0299 | 0.0000 | 97.5965 | 97.5965 | 4.8300e-003 | 0.0000 | 97.7173 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |
| Total | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |

## 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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 43.8249 | 43.8249 | 1.7600e-003 | 3.9000e-004 | 43.9851 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 43.8249 | 43.8249 | 1.7600e-003 | 3.9000e-004 | 43.9851 |
| NaturalGas Mitigated | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.2504 | 5.2504 | 1.0000e-004 | 1.0000e-004 | 5.2816 |
| NaturalGas Unmitigated | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.2504 | 5.2504 | 1.0000e-004 | 1.0000e-004 | 5.2816 |

## 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 | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 98388.1 | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.2504 | 5.2504 | 1.0000e-004 | 1.0000e-004 | 5.2816 |
| **Total** | | **5.3000e-004** | **4.8200e-003** | **4.0500e-003** | **3.0000e-005** | | **3.7000e-004** | **3.7000e-004** | | **3.7000e-004** | **3.7000e-004** | **0.0000** | **5.2504** | **5.2504** | **1.0000e-004** | **1.0000e-004** | **5.2816** |

**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 | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 98388.1 | 5.3000e-004 | 4.8200e-003 | 4.0500e-003 | 3.0000e-005 | | 3.7000e-004 | 3.7000e-004 | | 3.7000e-004 | 3.7000e-004 | 0.0000 | 5.2504 | 5.2504 | 1.0000e-004 | 1.0000e-004 | 5.2816 |
| **Total** | | **5.3000e-004** | **4.8200e-003** | **4.0500e-003** | **3.0000e-005** | | **3.7000e-004** | **3.7000e-004** | | **3.7000e-004** | **3.7000e-004** | **0.0000** | **5.2504** | **5.2504** | **1.0000e-004** | **1.0000e-004** | **5.2816** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 215040 | 43.8249 | 1.7600e-003 | 3.9000e-004 | 43.9851 |
| **Total** | | **43.8249** | **1.7600e-003** | **3.9000e-004** | **43.9851** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 215040 | 43.8249 | 1.7600e-003 | 3.9000e-004 | 43.9851 |
| **Total** | | **43.8249** | **1.7600e-003** | **3.9000e-004** | **43.9851** |

# 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 | 0.2618 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| Unmitigated | 0.2618 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-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 | 0.0309 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2309 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.0000e-005 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| **Total** | **0.2618** | **0.0000** | **5.4000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0600e-003** | **1.0600e-003** | **0.0000** | **0.0000** | **1.1300e-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 | 0.0309 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.2309 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 5.0000e-005 | 0.0000 | 5.4000e-004 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1.0600e-003 | 1.0600e-003 | 0.0000 | 0.0000 | 1.1300e-003 |
| **Total** | **0.2618** | **0.0000** | **5.4000e-004** | **0.0000** | | **0.0000** | **0.0000** | | **0.0000** | **0.0000** | **0.0000** | **1.0600e-003** | **1.0600e-003** | **0.0000** | **0.0000** | **1.1300e-003** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |
| Unmitigated | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 10.8984 / 0 | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |
| **Total** | | **32.3781** | **0.3563** | **8.6400e-003** | **43.8607** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 10.8984 / 0 | 32.3781 | 0.3563 | 8.6400e-003 | 43.8607 |
| **Total** | | **32.3781** | **0.3563** | **8.6400e-003** | **43.8607** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 8.4312 | 0.4983 | 0.0000 | 20.8880 |
| Unmitigated | 11.2416 | 0.6644 | 0.0000 | 27.8507 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 55.38 | 11.2416 | 0.6644 | 0.0000 | 27.8507 |
| **Total** | | **11.2416** | **0.6644** | **0.0000** | **27.8507** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 41.535 | 8.4312 | 0.4983 | 0.0000 | 20.8880 |
| **Total** | | **8.4312** | **0.4983** | **0.0000** | **20.8880** |

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phase 2

**San Diego County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 58.92 | 1000sqft | 0.73 | 58,915.00 | 0 |
| Other Asphalt Surfaces | 0.27 | Acre | 0.27 | 11,761.20 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 1.0 acres of 3.0 acre site
58,915 sf storage

Construction Phase - Phase 2 - 18 months construction (July 2025 - December 2026)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (10,898,350 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 5.00 | 182.00 |
| tblConstructionPhase | NumDays | 100.00 | 364.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 5.00 | 18.00 |
| tblConstructionPhase | NumDays | 1.00 | 11.00 |
| tblConstructionPhase | PhaseEndDate | 12/4/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/20/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/27/2025 | 12/31/2026 |
| tblConstructionPhase | PhaseEndDate | 7/1/2025 | 7/15/2025 |
| tblConstructionPhase | PhaseStartDate | 11/28/2025 | 3/27/2026 |
| tblConstructionPhase | PhaseStartDate | 7/4/2025 | 7/16/2025 |
| tblConstructionPhase | PhaseStartDate | 11/21/2025 | 12/8/2026 |
| tblLandUse | LotAcreage | 1.35 | 0.73 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 13,622,937.50 | 10,898,350.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2025 | 1.4332 | 11.3438 | 13.2962 | 0.0272 | 5.8653 | 0.4196 | 6.2849 | 2.9711 | 0.3861 | 3.3572 | 0.0000 | 2,544.1515 | 2,544.1515 | 0.5401 | 0.0000 | 2,552.9905 |
| 2026 | 5.0099 | 12.4823 | 15.1790 | 0.0305 | 0.3770 | 0.4468 | 0.8238 | 0.1018 | 0.4327 | 0.5345 | 0.0000 | 2,856.2272 | 2,856.2272 | 0.4134 | 0.0000 | 2,865.4595 |
| **Maximum** | **5.0099** | **12.4823** | **15.1790** | **0.0305** | **5.8653** | **0.4468** | **6.2849** | **2.9711** | **0.4327** | **3.3572** | **0.0000** | **2,856.2272** | **2,856.2272** | **0.5401** | **0.0000** | **2,865.4595** |

### 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 | | | | | |
| 2025 | 1.4332 | 11.3438 | 13.2962 | 0.0272 | 5.8653 | 0.4196 | 6.2849 | 2.9711 | 0.3861 | 3.3572 | 0.0000 | 2,544.1515 | 2,544.1515 | 0.5401 | 0.0000 | 2,552.9905 |
| 2026 | 5.0099 | 12.4823 | 15.1790 | 0.0305 | 0.3770 | 0.4468 | 0.8238 | 0.1018 | 0.4327 | 0.5345 | 0.0000 | 2,856.2272 | 2,856.2272 | 0.4134 | 0.0000 | 2,865.4595 |
| **Maximum** | **5.0099** | **12.4823** | **15.1790** | **0.0305** | **5.8653** | **0.4468** | **6.2849** | **2.9711** | **0.4327** | **3.3572** | **0.0000** | **2,856.2272** | **2,856.2272** | **0.5401** | **0.0000** | **2,865.4595** |

| | **ROG** | **NOx** | **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 | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Energy | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| Mobile | 0.1404 | 0.5366 | 1.5485 | 6.0300e-003 | 0.6123 | 4.4000e-003 | 0.6167 | 0.1636 | 4.0900e-003 | 0.1677 | | 616.3609 | 616.3609 | 0.0294 | | 617.0951 |
| **Total** | **1.5780** | **0.5631** | **1.5767** | **6.1900e-003** | **0.6123** | **6.4300e-003** | **0.6188** | **0.1636** | **6.1200e-003** | **0.1697** | | **648.0864** | **648.0864** | **0.0300** | **5.8000e-004** | **649.0098** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Energy | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| Mobile | 0.1404 | 0.5366 | 1.5485 | 6.0300e-003 | 0.6123 | 4.4000e-003 | 0.6167 | 0.1636 | 4.0900e-003 | 0.1677 | | 616.3609 | 616.3609 | 0.0294 | | 617.0951 |
| **Total** | **1.5780** | **0.5631** | **1.5767** | **6.1900e-003** | **0.6123** | **6.4300e-003** | **0.6188** | **0.1636** | **6.1200e-003** | **0.1697** | | **648.0864** | **648.0864** | **0.0300** | **5.8000e-004** | **649.0098** |

| | ROG | NOx | 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 | 7/1/2025 | 7/15/2025 | 5 | 11 | |
| 2 | Building Construction | Building Construction | 7/16/2025 | 12/7/2026 | 5 | 364 | |
| 3 | Paving | Paving | 12/8/2026 | 12/31/2026 | 5 | 18 | |
| 4 | Architectural Coating | Architectural Coating | 3/27/2026 | 12/7/2026 | 5 | 182 | |

**Acres of Grading (Site Preparation Phase): 5.5**

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

**Acres of Paving: 0.27**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 88,373; Non-Residential Outdoor: 29,458; Striped Parking Area: 706 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 30.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 6.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 5.7996 | 0.0000 | 5.7996 | 2.9537 | 0.0000 | 2.9537 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0103 | 10.5940 | 6.4468 | 0.0172 | | 0.4192 | 0.4192 | | 0.3857 | 0.3857 | | 1,665.8856 | 1,665.8856 | 0.5388 | | 1,679.3551 |
| **Total** | **1.0103** | **10.5940** | **6.4468** | **0.0172** | **5.7996** | **0.4192** | **6.2188** | **2.9537** | **0.3857** | **3.3394** | | **1,665.8856** | **1,665.8856** | **0.5388** | | **1,679.3551** |

### 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 | 0.0225 | 0.0127 | 0.1601 | 5.6000e-004 | 0.0657 | 4.2000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | | 55.6409 | 55.6409 | 1.3200e-003 | | 55.6741 |
| **Total** | **0.0225** | **0.0127** | **0.1601** | **5.6000e-004** | **0.0657** | **4.2000e-004** | **0.0661** | **0.0174** | **3.9000e-004** | **0.0178** | | **55.6409** | **55.6409** | **1.3200e-003** | | **55.6741** |

## 3.2 Site Preparation - 2025

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 5.7996 | 0.0000 | 5.7996 | 2.9537 | 0.0000 | 2.9537 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0103 | 10.5940 | 6.4468 | 0.0172 | | 0.4192 | 0.4192 | | 0.3857 | 0.3857 | 0.0000 | 1,665.8856 | 1,665.8856 | 0.5388 | | 1,679.3551 |
| **Total** | **1.0103** | **10.5940** | **6.4468** | **0.0172** | **5.7996** | **0.4192** | **6.2188** | **2.9537** | **0.3857** | **3.3394** | **0.0000** | **1,665.8856** | **1,665.8856** | **0.5388** | | **1,679.3551** |

### 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 | 0.0225 | 0.0127 | 0.1601 | 5.6000e-004 | 0.0657 | 4.2000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | | 55.6409 | 55.6409 | 1.3200e-003 | | 55.6741 |
| **Total** | **0.0225** | **0.0127** | **0.1601** | **5.6000e-004** | **0.0657** | **4.2000e-004** | **0.0661** | **0.0174** | **3.9000e-004** | **0.0178** | | **55.6409** | **55.6409** | **1.3200e-003** | | **55.6741** |

## 3.3 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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0244 | 0.8835 | 0.2566 | 3.0800e-003 | 0.0812 | 1.0200e-003 | 0.0823 | 0.0234 | 9.7000e-004 | 0.0244 | | 333.3456 | 333.3456 | 0.0217 | | 333.8880 |
| Worker | 0.0842 | 0.0475 | 0.6003 | 2.0900e-003 | 0.2464 | 1.5800e-003 | 0.2480 | 0.0654 | 1.4500e-003 | 0.0668 | | 208.6535 | 208.6535 | 4.9700e-003 | | 208.7777 |
| **Total** | **0.1085** | **0.9310** | **0.8569** | **5.1700e-003** | **0.3277** | **2.6000e-003** | **0.3303** | **0.0888** | **2.4200e-003** | **0.0912** | | **541.9991** | **541.9991** | **0.0267** | | **542.6657** |

## 3.3 Building Construction - 2025

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | 0.0000 | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | **0.0000** | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0244 | 0.8835 | 0.2566 | 3.0800e-003 | 0.0812 | 1.0200e-003 | 0.0823 | 0.0234 | 9.7000e-004 | 0.0244 | | 333.3456 | 333.3456 | 0.0217 | | 333.8880 |
| Worker | 0.0842 | 0.0475 | 0.6003 | 2.0900e-003 | 0.2464 | 1.5800e-003 | 0.2480 | 0.0654 | 1.4500e-003 | 0.0668 | | 208.6535 | 208.6535 | 4.9700e-003 | | 208.7777 |
| **Total** | **0.1085** | **0.9310** | **0.8569** | **5.1700e-003** | **0.3277** | **2.6000e-003** | **0.3303** | **0.0888** | **2.4200e-003** | **0.0912** | | **541.9991** | **541.9991** | **0.0267** | | **542.6657** |

## 3.3 Building Construction - 2026

**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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0238 | 0.8709 | 0.2531 | 3.0600e-003 | 0.0812 | 9.9000e-004 | 0.0822 | 0.0234 | 9.4000e-004 | 0.0243 | | 331.4144 | 331.4144 | 0.0215 | | 331.9516 |
| Worker | 0.0806 | 0.0442 | 0.5646 | 2.0200e-003 | 0.2464 | 1.5300e-003 | 0.2480 | 0.0654 | 1.4100e-003 | 0.0668 | | 201.0103 | 201.0103 | 4.6300e-003 | | 201.1261 |
| **Total** | **0.1044** | **0.9151** | **0.8177** | **5.0800e-003** | **0.3277** | **2.5200e-003** | **0.3302** | **0.0888** | **2.3500e-003** | **0.0911** | | **532.4246** | **532.4246** | **0.0261** | | **533.0777** |

## 3.3 Building Construction - 2026

**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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | 0.0000 | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | **0.0000** | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0238 | 0.8709 | 0.2531 | 3.0600e-003 | 0.0812 | 9.9000e-004 | 0.0822 | 0.0234 | 9.4000e-004 | 0.0243 | | 331.4144 | 331.4144 | 0.0215 | | 331.9516 |
| Worker | 0.0806 | 0.0442 | 0.5646 | 2.0200e-003 | 0.2464 | 1.5300e-003 | 0.2480 | 0.0654 | 1.4100e-003 | 0.0668 | | 201.0103 | 201.0103 | 4.6300e-003 | | 201.1261 |
| **Total** | **0.1044** | **0.9151** | **0.8177** | **5.0800e-003** | **0.3277** | **2.5200e-003** | **0.3302** | **0.0888** | **2.3500e-003** | **0.0911** | | **532.4246** | **532.4246** | **0.0261** | | **533.0777** |

## 3.4 Paving - 2026

### 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 | 0.5732 | 5.3259 | 8.7951 | 0.0136 | | 0.2465 | 0.2465 | | 0.2276 | 0.2276 | | 1,297.8096 | 1,297.8096 | 0.4114 | | 1,308.0951 |
| Paving | 0.0393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6125** | **5.3259** | **8.7951** | **0.0136** | | **0.2465** | **0.2465** | | **0.2276** | **0.2276** | | **1,297.8096** | **1,297.8096** | **0.4114** | | **1,308.0951** |

### 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 | 0.0349 | 0.0191 | 0.2446 | 8.7000e-004 | 0.1068 | 6.6000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 87.1045 | 87.1045 | 2.0100e-003 | | 87.1546 |
| **Total** | **0.0349** | **0.0191** | **0.2446** | **8.7000e-004** | **0.1068** | **6.6000e-004** | **0.1075** | **0.0283** | **6.1000e-004** | **0.0289** | | **87.1045** | **87.1045** | **2.0100e-003** | | **87.1546** |

## 3.4 Paving - 2026

### 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 | 0.5732 | 5.3259 | 8.7951 | 0.0136 | | 0.2465 | 0.2465 | | 0.2276 | 0.2276 | 0.0000 | 1,297.8096 | 1,297.8096 | 0.4114 | | 1,308.0951 |
| Paving | 0.0393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6125** | **5.3259** | **8.7951** | **0.0136** | | **0.2465** | **0.2465** | | **0.2276** | **0.2276** | **0.0000** | **1,297.8096** | **1,297.8096** | **0.4114** | | **1,308.0951** |

### 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 | 0.0349 | 0.0191 | 0.2446 | 8.7000e-004 | 0.1068 | 6.6000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 87.1045 | 87.1045 | 2.0100e-003 | | 87.1546 |
| **Total** | **0.0349** | **0.0191** | **0.2446** | **8.7000e-004** | **0.1068** | **6.6000e-004** | **0.1075** | **0.0283** | **6.1000e-004** | **0.0289** | | **87.1045** | **87.1045** | **2.0100e-003** | | **87.1546** |

## 3.5 Architectural Coating - 2026

### 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 | 3.3939 | | | | | 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** | **3.5648** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

### 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 | 0.0161 | 8.8400e-003 | 0.1129 | 4.0000e-004 | 0.0493 | 3.1000e-004 | 0.0496 | 0.0131 | 2.8000e-004 | 0.0134 | | 40.2021 | 40.2021 | 9.3000e-004 | | 40.2252 |
| **Total** | **0.0161** | **8.8400e-003** | **0.1129** | **4.0000e-004** | **0.0493** | **3.1000e-004** | **0.0496** | **0.0131** | **2.8000e-004** | **0.0134** | | **40.2021** | **40.2021** | **9.3000e-004** | | **40.2252** |

## 3.5 Architectural Coating - 2026

**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 | 3.3939 | | | | | 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** | **3.5648** | **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** |

**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 | 0.0161 | 8.8400e-003 | 0.1129 | 4.0000e-004 | 0.0493 | 3.1000e-004 | 0.0496 | 0.0131 | 2.8000e-004 | 0.0134 | | 40.2021 | 40.2021 | 9.3000e-004 | | 40.2252 |
| **Total** | **0.0161** | **8.8400e-003** | **0.1129** | **4.0000e-004** | **0.0493** | **3.1000e-004** | **0.0496** | **0.0131** | **2.8000e-004** | **0.0134** | | **40.2021** | **40.2021** | **9.3000e-004** | | **40.2252** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.1404 | 0.5366 | 1.5485 | 6.0300e-003 | 0.6123 | 4.4000e-003 | 0.6167 | 0.1636 | 4.0900e-003 | 0.1677 | | 616.3609 | 616.3609 | 0.0294 | | 617.0951 |
| Unmitigated | 0.1404 | 0.5366 | 1.5485 | 6.0300e-003 | 0.6123 | 4.4000e-003 | 0.6167 | 0.1636 | 4.0900e-003 | 0.1677 | | 616.3609 | 616.3609 | 0.0294 | | 617.0951 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |
| Total | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |

## 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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| NaturalGas Unmitigated | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 269.556 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| **Total** | | **2.9100e-003** | **0.0264** | **0.0222** | **1.6000e-004** | | **2.0100e-003** | **2.0100e-003** | | **2.0100e-003** | **2.0100e-003** | | **31.7125** | **31.7125** | **6.1000e-004** | **5.8000e-004** | **31.9010** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.269556 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| **Total** | | **2.9100e-003** | **0.0264** | **0.0222** | **1.6000e-004** | | **2.0100e-003** | **2.0100e-003** | | **2.0100e-003** | **2.0100e-003** | | **31.7125** | **31.7125** | **6.1000e-004** | **5.8000e-004** | **31.9010** |

# 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 | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Unmitigated | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1692 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.2650 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| **Total** | **1.4347** | **5.0000e-005** | **6.0300e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **0.0130** | **0.0130** | **3.0000e-005** | | **0.0138** |

### 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 | 0.1692 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.2650 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| **Total** | **1.4347** | **5.0000e-005** | **6.0300e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **0.0130** | **0.0130** | **3.0000e-005** | | **0.0138** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phase 2

**San Diego County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 58.92 | 1000sqft | 0.73 | 58,915.00 | 0 |
| Other Asphalt Surfaces | 0.27 | Acre | 0.27 | 11,761.20 | 0 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 1.0 acres of 3.0 acre site
58,915 sf storage

Construction Phase - Phase 2 - 18 months construction (July 2025 - December 2026)

Grading -

Architectural Coating - SDAPCD Rule 67.0.1

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (10,898,350 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblArchitecturalCoating | EF_Nonresidential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Nonresidential_Interior | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Parking | 250.00 | 100.00 |
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 150.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 100.00 |
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblConstructionPhase | NumDays | 5.00 | 182.00 |
| tblConstructionPhase | NumDays | 100.00 | 364.00 |

| | | | |
|---|---|---|---|
| tblConstructionPhase | NumDays | 5.00 | 18.00 |
| tblConstructionPhase | NumDays | 1.00 | 11.00 |
| tblConstructionPhase | PhaseEndDate | 12/4/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/20/2025 | 12/7/2026 |
| tblConstructionPhase | PhaseEndDate | 11/27/2025 | 12/31/2026 |
| tblConstructionPhase | PhaseEndDate | 7/1/2025 | 7/15/2025 |
| tblConstructionPhase | PhaseStartDate | 11/28/2025 | 3/27/2026 |
| tblConstructionPhase | PhaseStartDate | 7/4/2025 | 7/16/2025 |
| tblConstructionPhase | PhaseStartDate | 11/21/2025 | 12/8/2026 |
| tblLandUse | LotAcreage | 1.35 | 0.73 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 13,622,937.50 | 10,898,350.00 |

## 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2025 | 1.4468 | 11.3456 | 13.2810 | 0.0270 | 5.8653 | 0.4196 | 6.2849 | 2.9711 | 0.3861 | 3.3572 | 0.0000 | 2,522.9261 | 2,522.9261 | 0.5400 | 0.0000 | 2,531.7854 |
| 2026 | 5.0256 | 12.4848 | 15.1573 | 0.0303 | 0.3770 | 0.4469 | 0.8238 | 0.1018 | 0.4327 | 0.5345 | 0.0000 | 2,833.1177 | 2,833.1177 | 0.4133 | 0.0000 | 2,842.3681 |
| **Maximum** | **5.0256** | **12.4848** | **15.1573** | **0.0303** | **5.8653** | **0.4469** | **6.2849** | **2.9711** | **0.4327** | **3.3572** | **0.0000** | **2,833.1177** | **2,833.1177** | **0.5400** | **0.0000** | **2,842.3681** |

**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 | | | | | |
| 2025 | 1.4468 | 11.3456 | 13.2810 | 0.0270 | 5.8653 | 0.4196 | 6.2849 | 2.9711 | 0.3861 | 3.3572 | 0.0000 | 2,522.9261 | 2,522.9261 | 0.5400 | 0.0000 | 2,531.7854 |
| 2026 | 5.0256 | 12.4848 | 15.1573 | 0.0303 | 0.3770 | 0.4469 | 0.8238 | 0.1018 | 0.4327 | 0.5345 | 0.0000 | 2,833.1177 | 2,833.1177 | 0.4133 | 0.0000 | 2,842.3681 |
| **Maximum** | **5.0256** | **12.4848** | **15.1573** | **0.0303** | **5.8653** | **0.4469** | **6.2849** | **2.9711** | **0.4327** | **3.3572** | **0.0000** | **2,833.1177** | **2,833.1177** | **0.5400** | **0.0000** | **2,842.3681** |

| | **ROG** | **NOx** | **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 | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Energy | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| Mobile | 0.1354 | 0.5479 | 1.5251 | 5.7200e-003 | 0.6123 | 4.4200e-003 | 0.6167 | 0.1636 | 4.1000e-003 | 0.1677 | | 585.3243 | 585.3243 | 0.0296 | | 586.0639 |
| **Total** | **1.5731** | **0.5744** | **1.5533** | **5.8800e-003** | **0.6123** | **6.4500e-003** | **0.6188** | **0.1636** | **6.1300e-003** | **0.1697** | | **617.0498** | **617.0498** | **0.0302** | **5.8000e-004** | **617.9786** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Energy | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| Mobile | 0.1354 | 0.5479 | 1.5251 | 5.7200e-003 | 0.6123 | 4.4200e-003 | 0.6167 | 0.1636 | 4.1000e-003 | 0.1677 | | 585.3243 | 585.3243 | 0.0296 | | 586.0639 |
| **Total** | **1.5731** | **0.5744** | **1.5533** | **5.8800e-003** | **0.6123** | **6.4500e-003** | **0.6188** | **0.1636** | **6.1300e-003** | **0.1697** | | **617.0498** | **617.0498** | **0.0302** | **5.8000e-004** | **617.9786** |

| | ROG | NOx | 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 | 7/1/2025 | 7/15/2025 | 5 | 11 | |
| 2 | Building Construction | Building Construction | 7/16/2025 | 12/7/2026 | 5 | 364 | |
| 3 | Paving | Paving | 12/8/2026 | 12/31/2026 | 5 | 18 | |
| 4 | Architectural Coating | Architectural Coating | 3/27/2026 | 12/7/2026 | 5 | 182 | |

**Acres of Grading (Site Preparation Phase): 5.5**

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

**Acres of Paving: 0.27**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 88,373; Non-Residential Outdoor: 29,458; Striped Parking Area: 706 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|---|---|---|---|---|---|
| Site Preparation | Rubber Tired Dozers | 1 | 7.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Site Preparation | Graders | 1 | 8.00 | 187 | 0.41 |
| Building Construction | Cranes | 1 | 6.00 | 231 | 0.29 |
| Building Construction | Forklifts | 1 | 6.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 1 | 6.00 | 97 | 0.37 |
| Building Construction | Welders | 3 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Paving | Cement and Mortar Mixers | 1 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 6.00 | 130 | 0.42 |
| Paving | Paving Equipment | 1 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 1 | 7.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 3 | 8.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 7 | 30.00 | 12.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 6.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 5 | 13.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 5.7996 | 0.0000 | 5.7996 | 2.9537 | 0.0000 | 2.9537 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0103 | 10.5940 | 6.4468 | 0.0172 | | 0.4192 | 0.4192 | | 0.3857 | 0.3857 | | 1,665.8856 | 1,665.8856 | 0.5388 | | 1,679.3551 |
| **Total** | **1.0103** | **10.5940** | **6.4468** | **0.0172** | **5.7996** | **0.4192** | **6.2188** | **2.9537** | **0.3857** | **3.3394** | | **1,665.8856** | **1,665.8856** | **0.5388** | | **1,679.3551** |

### 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 | 0.0257 | 0.0142 | 0.1494 | 5.2000e-004 | 0.0657 | 4.2000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | | 52.2404 | 52.2404 | 1.2500e-003 | | 52.2716 |
| **Total** | **0.0257** | **0.0142** | **0.1494** | **5.2000e-004** | **0.0657** | **4.2000e-004** | **0.0661** | **0.0174** | **3.9000e-004** | **0.0178** | | **52.2404** | **52.2404** | **1.2500e-003** | | **52.2716** |

## 3.2 Site Preparation - 2025

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 5.7996 | 0.0000 | 5.7996 | 2.9537 | 0.0000 | 2.9537 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.0103 | 10.5940 | 6.4468 | 0.0172 | | 0.4192 | 0.4192 | | 0.3857 | 0.3857 | 0.0000 | 1,665.8856 | 1,665.8856 | 0.5388 | | 1,679.3551 |
| **Total** | **1.0103** | **10.5940** | **6.4468** | **0.0172** | **5.7996** | **0.4192** | **6.2188** | **2.9537** | **0.3857** | **3.3394** | **0.0000** | **1,665.8856** | **1,665.8856** | **0.5388** | | **1,679.3551** |

### 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 | 0.0257 | 0.0142 | 0.1494 | 5.2000e-004 | 0.0657 | 4.2000e-004 | 0.0661 | 0.0174 | 3.9000e-004 | 0.0178 | | 52.2404 | 52.2404 | 1.2500e-003 | | 52.2716 |
| **Total** | **0.0257** | **0.0142** | **0.1494** | **5.2000e-004** | **0.0657** | **4.2000e-004** | **0.0661** | **0.0174** | **3.9000e-004** | **0.0178** | | **52.2404** | **52.2404** | **1.2500e-003** | | **52.2716** |

## 3.3 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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0257 | 0.8795 | 0.2812 | 3.0000e-003 | 0.0812 | 1.0600e-003 | 0.0823 | 0.0234 | 1.0200e-003 | 0.0244 | | 324.8720 | 324.8720 | 0.0228 | | 325.4422 |
| Worker | 0.0965 | 0.0533 | 0.5604 | 1.9600e-003 | 0.2464 | 1.5800e-003 | 0.2480 | 0.0654 | 1.4500e-003 | 0.0668 | | 195.9016 | 195.9016 | 4.6700e-003 | | 196.0184 |
| **Total** | **0.1222** | **0.9328** | **0.8416** | **4.9600e-003** | **0.3277** | **2.6400e-003** | **0.3303** | **0.0888** | **2.4700e-003** | **0.0912** | | **520.7737** | **520.7737** | **0.0275** | | **521.4606** |

## 3.3 Building Construction - 2025

**Mitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | 0.0000 | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | **0.0000** | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0257 | 0.8795 | 0.2812 | 3.0000e-003 | 0.0812 | 1.0600e-003 | 0.0823 | 0.0234 | 1.0200e-003 | 0.0244 | | 324.8720 | 324.8720 | 0.0228 | | 325.4422 |
| Worker | 0.0965 | 0.0533 | 0.5604 | 1.9600e-003 | 0.2464 | 1.5800e-003 | 0.2480 | 0.0654 | 1.4500e-003 | 0.0668 | | 195.9016 | 195.9016 | 4.6700e-003 | | 196.0184 |
| **Total** | **0.1222** | **0.9328** | **0.8416** | **4.9600e-003** | **0.3277** | **2.6400e-003** | **0.3303** | **0.0888** | **2.4700e-003** | **0.0912** | | **520.7737** | **520.7737** | **0.0275** | | **521.4606** |

## 3.3 Building Construction - 2026

**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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0250 | 0.8670 | 0.2771 | 2.9800e-003 | 0.0812 | 1.0300e-003 | 0.0823 | 0.0234 | 9.8000e-004 | 0.0244 | | 323.0442 | 323.0442 | 0.0226 | | 323.6079 |
| Worker | 0.0927 | 0.0495 | 0.5265 | 1.8900e-003 | 0.2464 | 1.5300e-003 | 0.2480 | 0.0654 | 1.4100e-003 | 0.0668 | | 188.7275 | 188.7275 | 4.3500e-003 | | 188.8363 |
| **Total** | **0.1177** | **0.9166** | **0.8036** | **4.8700e-003** | **0.3277** | **2.5600e-003** | **0.3302** | **0.0888** | **2.3900e-003** | **0.0911** | | **511.7717** | **511.7717** | **0.0269** | | **512.4442** |

## 3.3 Building Construction - 2026

**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 | 1.3246 | 10.4128 | 12.4393 | 0.0221 | | 0.3925 | 0.3925 | | 0.3785 | 0.3785 | 0.0000 | 2,002.1524 | 2,002.1524 | 0.3269 | | 2,010.3248 |
| **Total** | **1.3246** | **10.4128** | **12.4393** | **0.0221** | | **0.3925** | **0.3925** | | **0.3785** | **0.3785** | **0.0000** | **2,002.1524** | **2,002.1524** | **0.3269** | | **2,010.3248** |

**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 | 0.0250 | 0.8670 | 0.2771 | 2.9800e-003 | 0.0812 | 1.0300e-003 | 0.0823 | 0.0234 | 9.8000e-004 | 0.0244 | | 323.0442 | 323.0442 | 0.0226 | | 323.6079 |
| Worker | 0.0927 | 0.0495 | 0.5265 | 1.8900e-003 | 0.2464 | 1.5300e-003 | 0.2480 | 0.0654 | 1.4100e-003 | 0.0668 | | 188.7275 | 188.7275 | 4.3500e-003 | | 188.8363 |
| **Total** | **0.1177** | **0.9166** | **0.8036** | **4.8700e-003** | **0.3277** | **2.5600e-003** | **0.3302** | **0.0888** | **2.3900e-003** | **0.0911** | | **511.7717** | **511.7717** | **0.0269** | | **512.4442** |

## 3.4 Paving - 2026

### 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 | 0.5732 | 5.3259 | 8.7951 | 0.0136 | | 0.2465 | 0.2465 | | 0.2276 | 0.2276 | | 1,297.8096 | 1,297.8096 | 0.4114 | | 1,308.0951 |
| Paving | 0.0393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6125** | **5.3259** | **8.7951** | **0.0136** | | **0.2465** | **0.2465** | | **0.2276** | **0.2276** | | **1,297.8096** | **1,297.8096** | **0.4114** | | **1,308.0951** |

### 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 | 0.0402 | 0.0215 | 0.2281 | 8.2000e-004 | 0.1068 | 6.6000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 81.7819 | 81.7819 | 1.8900e-003 | | 81.8291 |
| **Total** | **0.0402** | **0.0215** | **0.2281** | **8.2000e-004** | **0.1068** | **6.6000e-004** | **0.1075** | **0.0283** | **6.1000e-004** | **0.0289** | | **81.7819** | **81.7819** | **1.8900e-003** | | **81.8291** |

## 3.4 Paving - 2026

### 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 | 0.5732 | 5.3259 | 8.7951 | 0.0136 | | 0.2465 | 0.2465 | | 0.2276 | 0.2276 | 0.0000 | 1,297.8096 | 1,297.8096 | 0.4114 | | 1,308.0951 |
| Paving | 0.0393 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **0.6125** | **5.3259** | **8.7951** | **0.0136** | | **0.2465** | **0.2465** | | **0.2276** | **0.2276** | **0.0000** | **1,297.8096** | **1,297.8096** | **0.4114** | | **1,308.0951** |

### 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 | 0.0402 | 0.0215 | 0.2281 | 8.2000e-004 | 0.1068 | 6.6000e-004 | 0.1075 | 0.0283 | 6.1000e-004 | 0.0289 | | 81.7819 | 81.7819 | 1.8900e-003 | | 81.8291 |
| **Total** | **0.0402** | **0.0215** | **0.2281** | **8.2000e-004** | **0.1068** | **6.6000e-004** | **0.1075** | **0.0283** | **6.1000e-004** | **0.0289** | | **81.7819** | **81.7819** | **1.8900e-003** | | **81.8291** |

## 3.5 Architectural Coating - 2026

### 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 | 3.3939 | | | | | 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** | **3.5648** | **1.1455** | **1.8091** | **2.9700e-003** | | **0.0515** | **0.0515** | | **0.0515** | **0.0515** | | **281.4481** | **281.4481** | **0.0154** | | **281.8319** |

### 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 | 0.0185 | 9.9100e-003 | 0.1053 | 3.8000e-004 | 0.0493 | 3.1000e-004 | 0.0496 | 0.0131 | 2.8000e-004 | 0.0134 | | 37.7455 | 37.7455 | 8.7000e-004 | | 37.7673 |
| **Total** | **0.0185** | **9.9100e-003** | **0.1053** | **3.8000e-004** | **0.0493** | **3.1000e-004** | **0.0496** | **0.0131** | **2.8000e-004** | **0.0134** | | **37.7455** | **37.7455** | **8.7000e-004** | | **37.7673** |

## 3.5 Architectural Coating - 2026

**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 | 3.3939 | | | | | 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** | **3.5648** | **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** |

**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 | 0.0185 | 9.9100e-003 | 0.1053 | 3.8000e-004 | 0.0493 | 3.1000e-004 | 0.0496 | 0.0131 | 2.8000e-004 | 0.0134 | | 37.7455 | 37.7455 | 8.7000e-004 | | 37.7673 |
| **Total** | **0.0185** | **9.9100e-003** | **0.1053** | **3.8000e-004** | **0.0493** | **3.1000e-004** | **0.0496** | **0.0131** | **2.8000e-004** | **0.0134** | | **37.7455** | **37.7455** | **8.7000e-004** | | **37.7673** |

## 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.1354 | 0.5479 | 1.5251 | 5.7200e-003 | 0.6123 | 4.4200e-003 | 0.6167 | 0.1636 | 4.1000e-003 | 0.1677 | | 585.3243 | 585.3243 | 0.0296 | | 586.0639 |
| Unmitigated | 0.1354 | 0.5479 | 1.5251 | 5.7200e-003 | 0.6123 | 4.4200e-003 | 0.6167 | 0.1636 | 4.1000e-003 | 0.1677 | | 585.3243 | 585.3243 | 0.0296 | | 586.0639 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |
| Total | 117.83 | 117.83 | 117.83 | 288,893 | 288,893 |

## 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 |
| Other Asphalt Surfaces | 9.50 | 7.30 | 7.30 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| NaturalGas Unmitigated | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 269.556 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| **Total** | | **2.9100e-003** | **0.0264** | **0.0222** | **1.6000e-004** | | **2.0100e-003** | **2.0100e-003** | | **2.0100e-003** | **2.0100e-003** | | **31.7125** | **31.7125** | **6.1000e-004** | **5.8000e-004** | **31.9010** |

**Mitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.269556 | 2.9100e-003 | 0.0264 | 0.0222 | 1.6000e-004 | | 2.0100e-003 | 2.0100e-003 | | 2.0100e-003 | 2.0100e-003 | | 31.7125 | 31.7125 | 6.1000e-004 | 5.8000e-004 | 31.9010 |
| **Total** | | **2.9100e-003** | **0.0264** | **0.0222** | **1.6000e-004** | | **2.0100e-003** | **2.0100e-003** | | **2.0100e-003** | **2.0100e-003** | | **31.7125** | **31.7125** | **6.1000e-004** | **5.8000e-004** | **31.9010** |

# 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 | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| Unmitigated | 1.4347 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |

## 6.2 Area by SubCategory

**Unmitigated**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.1692 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.2650 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| **Total** | **1.4347** | **5.0000e-005** | **6.0300e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **0.0130** | **0.0130** | **3.0000e-005** | | **0.0138** |

### 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 | 0.1692 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 1.2650 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 5.5000e-004 | 5.0000e-005 | 6.0300e-003 | 0.0000 | | 2.0000e-005 | 2.0000e-005 | | 2.0000e-005 | 2.0000e-005 | | 0.0130 | 0.0130 | 3.0000e-005 | | 0.0138 |
| **Total** | **1.4347** | **5.0000e-005** | **6.0300e-003** | **0.0000** | | **2.0000e-005** | **2.0000e-005** | | **2.0000e-005** | **2.0000e-005** | | **0.0130** | **0.0130** | **3.0000e-005** | | **0.0138** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2

**San Diego County APCD Air District, Annual**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 146.53 | 1000sqft | 1.37 | 146,528.00 | 0 |
| Other Asphalt Surfaces | 1.60 | Acre | 1.60 | 69,696.00 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
146,528 sf storage
1 care taker unit

Construction Phase - Construction calculated separately

Grading -

Architectural Coating -

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 27,108,050 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |

| | | | |
|---|---|---|---|
| tblLandUse | LotAcreage | 3.36 | 1.37 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | HO_TL | 7.50 | 7.22 |
| tblVehicleTrips | HS_TL | 7.30 | 7.22 |
| tblVehicleTrips | HW_TL | 10.80 | 7.22 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 33,885,062.50 | 27,108,050.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction

### Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.1266 | 1.1670 | 0.9698 | 2.0700e-003 | 0.0898 | 0.0568 | 0.1466 | 0.0367 | 0.0533 | 0.0900 | 0.0000 | 184.4347 | 184.4347 | 0.0328 | 0.0000 | 185.2543 |
| 2021 | 1.9167 | 1.4827 | 1.3958 | 3.0300e-003 | 0.0665 | 0.0680 | 0.1345 | 0.0180 | 0.0639 | 0.0819 | 0.0000 | 270.2784 | 270.2784 | 0.0457 | 0.0000 | 271.4218 |
| **Maximum** | **1.9167** | **1.4827** | **1.3958** | **3.0300e-003** | **0.0898** | **0.0680** | **0.1466** | **0.0367** | **0.0639** | **0.0900** | **0.0000** | **270.2784** | **270.2784** | **0.0457** | **0.0000** | **271.4218** |

### 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 | | | | | |
| 2020 | 0.1266 | 1.1670 | 0.9698 | 2.0700e-003 | 0.0898 | 0.0568 | 0.1466 | 0.0367 | 0.0533 | 0.0900 | 0.0000 | 184.4346 | 184.4346 | 0.0328 | 0.0000 | 185.2542 |
| 2021 | 1.9167 | 1.4827 | 1.3958 | 3.0300e-003 | 0.0665 | 0.0680 | 0.1345 | 0.0180 | 0.0639 | 0.0819 | 0.0000 | 270.2782 | 270.2782 | 0.0457 | 0.0000 | 271.4216 |
| **Maximum** | **1.9167** | **1.4827** | **1.3958** | **3.0300e-003** | **0.0898** | **0.0680** | **0.1466** | **0.0367** | **0.0639** | **0.0900** | **0.0000** | **270.2782** | **270.2782** | **0.0457** | **0.0000** | **271.4216** |

| | ROG | NOx | 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) |
|---|---|---|---|---|
| **1** | **8-20-2020** | **11-19-2020** | 0.9026 | 0.9026 |
| **2** | **11-20-2020** | **2-19-2021** | 0.8153 | 0.8153 |
| **3** | **2-20-2021** | **5-19-2021** | 0.7521 | 0.7521 |
| **4** | **5-20-2021** | **8-19-2021** | 2.2290 | 2.2290 |
| | | **Highest** | 2.2290 | 2.2290 |

## 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 | 0.6634 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |
| Energy | 1.3800e-003 | 0.0125 | 0.0103 | 8.0000e-005 | | 9.5000e-004 | 9.5000e-004 | | 9.5000e-004 | 9.5000e-004 | 0.0000 | 123.5195 | 123.5195 | 4.6600e-003 | 1.2300e-003 | 124.0021 |
| Mobile | 0.0610 | 0.2538 | 0.6960 | 2.6700e-003 | 0.2759 | 2.0300e-003 | 0.2780 | 0.0739 | 1.8900e-003 | 0.0758 | 0.0000 | 247.4804 | 247.4804 | 0.0123 | 0.0000 | 247.7867 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 28.0534 | 0.0000 | 28.0534 | 1.6579 | 0.0000 | 69.5010 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.6167 | 72.1671 | 80.7837 | 0.8879 | 0.0215 | 109.4002 |
| **Total** | **0.7258** | **0.2665** | **0.7151** | **2.7500e-003** | **0.2759** | **3.0300e-003** | **0.2790** | **0.0739** | **2.8900e-003** | **0.0768** | **36.6700** | **443.1817** | **479.8518** | **2.5628** | **0.0228** | **550.7052** |

## 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 | 0.6634 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |
| Energy | 1.3800e-003 | 0.0125 | 0.0103 | 8.0000e-005 | | 9.5000e-004 | 9.5000e-004 | | 9.5000e-004 | 9.5000e-004 | 0.0000 | 123.5195 | 123.5195 | 4.6600e-003 | 1.2300e-003 | 124.0021 |
| Mobile | 0.0610 | 0.2538 | 0.6960 | 2.6700e-003 | 0.2759 | 2.0300e-003 | 0.2780 | 0.0739 | 1.8900e-003 | 0.0758 | 0.0000 | 247.4804 | 247.4804 | 0.0123 | 0.0000 | 247.7867 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 21.0400 | 0.0000 | 21.0400 | 1.2434 | 0.0000 | 52.1257 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.6167 | 72.1671 | 80.7837 | 0.8879 | 0.0215 | 109.4002 |
| **Total** | **0.7258** | **0.2665** | **0.7151** | **2.7500e-003** | **0.2759** | **3.0300e-003** | **0.2790** | **0.0739** | **2.8900e-003** | **0.0768** | **29.6567** | **443.1817** | **472.8384** | **2.1483** | **0.0228** | **533.3300** |

| | ROG | NOx | 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** | **19.13** | **0.00** | **1.46** | **16.17** | **0.00** | **3.16** |

## 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 | 8/20/2020 | 8/24/2020 | 5 | 3 | |
| 2 | Grading | Grading | 8/25/2020 | 9/1/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 9/2/2020 | 7/6/2021 | 5 | 220 | |
| 4 | Paving | Paving | 7/7/2021 | 7/20/2021 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 7/21/2021 | 8/3/2021 | 5 | 10 | |

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

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.6**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 219,792; Non-Residential Outdoor: 73,264; Striped Parking Area: 4,182 (Architectural Coating – sqft)**

**<u>OffRoad Equipment</u>**

| 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 | Tractors/Loaders/Backhoes | 3 | 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 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

**Trips and VMT**

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 92.00 | 36.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0271 | 0.0000 | 0.0271 | 0.0149 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.1100e-003 | 0.0636 | 0.0323 | 6.0000e-005 | | 3.3000e-003 | 3.3000e-003 | | 3.0300e-003 | 3.0300e-003 | 0.0000 | 5.0146 | 5.0146 | 1.6200e-003 | 0.0000 | 5.0552 |
| **Total** | **6.1100e-003** | **0.0636** | **0.0323** | **6.0000e-005** | **0.0271** | **3.3000e-003** | **0.0304** | **0.0149** | **3.0300e-003** | **0.0179** | **0.0000** | **5.0146** | **5.0146** | **1.6200e-003** | **0.0000** | **5.0552** |

## 3.2 Site Preparation - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 7.0000e-005 | 7.2000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1957 | 0.1957 | 1.0000e-005 | 0.0000 | 0.1959 |
| **Total** | **1.0000e-004** | **7.0000e-005** | **7.2000e-004** | **0.0000** | **2.2000e-004** | **0.0000** | **2.2000e-004** | **6.0000e-005** | **0.0000** | **6.0000e-005** | **0.0000** | **0.1957** | **0.1957** | **1.0000e-005** | **0.0000** | **0.1959** |

### 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 | | | | | 0.0271 | 0.0000 | 0.0271 | 0.0149 | 0.0000 | 0.0149 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 6.1100e-003 | 0.0636 | 0.0323 | 6.0000e-005 | | 3.3000e-003 | 3.3000e-003 | | 3.0300e-003 | 3.0300e-003 | 0.0000 | 5.0146 | 5.0146 | 1.6200e-003 | 0.0000 | 5.0551 |
| **Total** | **6.1100e-003** | **0.0636** | **0.0323** | **6.0000e-005** | **0.0271** | **3.3000e-003** | **0.0304** | **0.0149** | **3.0300e-003** | **0.0179** | **0.0000** | **5.0146** | **5.0146** | **1.6200e-003** | **0.0000** | **5.0551** |

## 3.2 Site Preparation - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-004 | 7.0000e-005 | 7.2000e-004 | 0.0000 | 2.2000e-004 | 0.0000 | 2.2000e-004 | 6.0000e-005 | 0.0000 | 6.0000e-005 | 0.0000 | 0.1957 | 0.1957 | 1.0000e-005 | 0.0000 | 0.1959 |
| **Total** | **1.0000e-004** | **7.0000e-005** | **7.2000e-004** | **0.0000** | **2.2000e-004** | **0.0000** | **2.2000e-004** | **6.0000e-005** | **0.0000** | **6.0000e-005** | **0.0000** | **0.1957** | **0.1957** | **1.0000e-005** | **0.0000** | **0.1959** |

## 3.3 Grading - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0197 | 0.0000 | 0.0197 | 0.0101 | 0.0000 | 0.0101 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.2900e-003 | 0.0792 | 0.0482 | 9.0000e-005 | | 3.8200e-003 | 3.8200e-003 | | 3.5100e-003 | 3.5100e-003 | 0.0000 | 7.8176 | 7.8176 | 2.5300e-003 | 0.0000 | 7.8808 |
| **Total** | **7.2900e-003** | **0.0792** | **0.0482** | **9.0000e-005** | **0.0197** | **3.8200e-003** | **0.0235** | **0.0101** | **3.5100e-003** | **0.0136** | **0.0000** | **7.8176** | **7.8176** | **2.5300e-003** | **0.0000** | **7.8808** |

## 3.3 Grading - 2020

### 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 | 1.7000e-004 | 1.2000e-004 | 1.2000e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3262 | 0.3262 | 1.0000e-005 | 0.0000 | 0.3264 |
| **Total** | **1.7000e-004** | **1.2000e-004** | **1.2000e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **1.0000e-004** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3262** | **0.3262** | **1.0000e-005** | **0.0000** | **0.3264** |

### 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 | | | | | 0.0197 | 0.0000 | 0.0197 | 0.0101 | 0.0000 | 0.0101 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.2900e-003 | 0.0792 | 0.0482 | 9.0000e-005 | | 3.8200e-003 | 3.8200e-003 | | 3.5100e-003 | 3.5100e-003 | 0.0000 | 7.8176 | 7.8176 | 2.5300e-003 | 0.0000 | 7.8808 |
| **Total** | **7.2900e-003** | **0.0792** | **0.0482** | **9.0000e-005** | **0.0197** | **3.8200e-003** | **0.0235** | **0.0101** | **3.5100e-003** | **0.0136** | **0.0000** | **7.8176** | **7.8176** | **2.5300e-003** | **0.0000** | **7.8808** |

## 3.3 Grading - 2020

**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 | 1.7000e-004 | 1.2000e-004 | 1.2000e-003 | 0.0000 | 3.6000e-004 | 0.0000 | 3.6000e-004 | 1.0000e-004 | 0.0000 | 1.0000e-004 | 0.0000 | 0.3262 | 0.3262 | 1.0000e-005 | 0.0000 | 0.3264 |
| **Total** | **1.7000e-004** | **1.2000e-004** | **1.2000e-003** | **0.0000** | **3.6000e-004** | **0.0000** | **3.6000e-004** | **1.0000e-004** | **0.0000** | **1.0000e-004** | **0.0000** | **0.3262** | **0.3262** | **1.0000e-005** | **0.0000** | **0.3264** |

## 3.4 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0922 | 0.8346 | 0.7329 | 1.1700e-003 | | 0.0486 | 0.0486 | | 0.0457 | 0.0457 | 0.0000 | 100.7503 | 100.7503 | 0.0246 | 0.0000 | 101.3648 |
| **Total** | **0.0922** | **0.8346** | **0.7329** | **1.1700e-003** | | **0.0486** | **0.0486** | | **0.0457** | **0.0457** | **0.0000** | **100.7503** | **100.7503** | **0.0246** | **0.0000** | **101.3648** |

## 3.4 Building Construction - 2020

### 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 | 5.9700e-003 | 0.1785 | 0.0474 | 4.2000e-004 | 0.0104 | 8.7000e-004 | 0.0113 | 3.0000e-003 | 8.3000e-004 | 3.8300e-003 | 0.0000 | 41.3207 | 41.3207 | 3.1700e-003 | 0.0000 | 41.3999 |
| Worker | 0.0148 | 0.0109 | 0.1071 | 3.2000e-004 | 0.0321 | 2.3000e-004 | 0.0323 | 8.5300e-003 | 2.1000e-004 | 8.7400e-003 | 0.0000 | 29.0095 | 29.0095 | 8.7000e-004 | 0.0000 | 29.0313 |
| **Total** | **0.0207** | **0.1894** | **0.1545** | **7.4000e-004** | **0.0425** | **1.1000e-003** | **0.0436** | **0.0115** | **1.0400e-003** | **0.0126** | **0.0000** | **70.3302** | **70.3302** | **4.0400e-003** | **0.0000** | **70.4312** |

### 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 | 0.0922 | 0.8346 | 0.7329 | 1.1700e-003 | | 0.0486 | 0.0486 | | 0.0457 | 0.0457 | 0.0000 | 100.7502 | 100.7502 | 0.0246 | 0.0000 | 101.3647 |
| **Total** | **0.0922** | **0.8346** | **0.7329** | **1.1700e-003** | | **0.0486** | **0.0486** | | **0.0457** | **0.0457** | **0.0000** | **100.7502** | **100.7502** | **0.0246** | **0.0000** | **101.3647** |

## 3.4 Building Construction - 2020

**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 | 5.9700e-003 | 0.1785 | 0.0474 | 4.2000e-004 | 0.0104 | 8.7000e-004 | 0.0113 | 3.0000e-003 | 8.3000e-004 | 3.8300e-003 | 0.0000 | 41.3207 | 41.3207 | 3.1700e-003 | 0.0000 | 41.3999 |
| Worker | 0.0148 | 0.0109 | 0.1071 | 3.2000e-004 | 0.0321 | 2.3000e-004 | 0.0323 | 8.5300e-003 | 2.1000e-004 | 8.7400e-003 | 0.0000 | 29.0095 | 29.0095 | 8.7000e-004 | 0.0000 | 29.0313 |
| **Total** | **0.0207** | **0.1894** | **0.1545** | **7.4000e-004** | **0.0425** | **1.1000e-003** | **0.0436** | **0.0115** | **1.0400e-003** | **0.0126** | **0.0000** | **70.3302** | **70.3302** | **4.0400e-003** | **0.0000** | **70.4312** |

## 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 | 0.1264 | 1.1592 | 1.1023 | 1.7900e-003 | | 0.0638 | 0.0638 | | 0.0599 | 0.0599 | 0.0000 | 154.0388 | 154.0388 | 0.0372 | 0.0000 | 154.9679 |
| **Total** | **0.1264** | **1.1592** | **1.1023** | **1.7900e-003** | | **0.0638** | **0.0638** | | **0.0599** | **0.0599** | **0.0000** | **154.0388** | **154.0388** | **0.0372** | **0.0000** | **154.9679** |

## 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 | 7.4000e-003 | 0.2460 | 0.0656 | 6.4000e-004 | 0.0159 | 5.2000e-004 | 0.0164 | 4.5900e-003 | 5.0000e-004 | 5.0900e-003 | 0.0000 | 62.5887 | 62.5887 | 4.6500e-003 | 0.0000 | 62.7049 |
| Worker | 0.0213 | 0.0152 | 0.1528 | 4.7000e-004 | 0.0491 | 3.5000e-004 | 0.0494 | 0.0130 | 3.2000e-004 | 0.0134 | 0.0000 | 42.8580 | 42.8580 | 1.2300e-003 | 0.0000 | 42.8887 |
| **Total** | **0.0287** | **0.2612** | **0.2185** | **1.1100e-003** | **0.0650** | **8.7000e-004** | **0.0658** | **0.0176** | **8.2000e-004** | **0.0185** | **0.0000** | **105.4467** | **105.4467** | **5.8800e-003** | **0.0000** | **105.5936** |

### 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 | 0.1264 | 1.1592 | 1.1023 | 1.7900e-003 | | 0.0638 | 0.0638 | | 0.0599 | 0.0599 | 0.0000 | 154.0386 | 154.0386 | 0.0372 | 0.0000 | 154.9677 |
| **Total** | **0.1264** | **1.1592** | **1.1023** | **1.7900e-003** | | **0.0638** | **0.0638** | | **0.0599** | **0.0599** | **0.0000** | **154.0386** | **154.0386** | **0.0372** | **0.0000** | **154.9677** |

## 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 | 7.4000e-003 | 0.2460 | 0.0656 | 6.4000e-004 | 0.0159 | 5.2000e-004 | 0.0164 | 4.5900e-003 | 5.0000e-004 | 5.0900e-003 | 0.0000 | 62.5887 | 62.5887 | 4.6500e-003 | 0.0000 | 62.7049 |
| Worker | 0.0213 | 0.0152 | 0.1528 | 4.7000e-004 | 0.0491 | 3.5000e-004 | 0.0494 | 0.0130 | 3.2000e-004 | 0.0134 | 0.0000 | 42.8580 | 42.8580 | 1.2300e-003 | 0.0000 | 42.8887 |
| **Total** | **0.0287** | **0.2612** | **0.2185** | **1.1100e-003** | **0.0650** | **8.7000e-004** | **0.0658** | **0.0176** | **8.2000e-004** | **0.0185** | **0.0000** | **105.4467** | **105.4467** | **5.8800e-003** | **0.0000** | **105.5936** |

## 3.5 Paving - 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 | 5.4700e-003 | 0.0542 | 0.0613 | 9.0000e-005 | | 2.8900e-003 | 2.8900e-003 | | 2.6700e-003 | 2.6700e-003 | 0.0000 | 8.1853 | 8.1853 | 2.5700e-003 | 0.0000 | 8.2496 |
| Paving | 2.1000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **7.5700e-003** | **0.0542** | **0.0613** | **9.0000e-005** | | **2.8900e-003** | **2.8900e-003** | | **2.6700e-003** | **2.6700e-003** | **0.0000** | **8.1853** | **8.1853** | **2.5700e-003** | **0.0000** | **8.2496** |

## 3.5 Paving - 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 | 3.5000e-004 | 2.5000e-004 | 2.5000e-003 | 1.0000e-005 | 8.0000e-004 | 1.0000e-005 | 8.1000e-004 | 2.1000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7005 | 0.7005 | 2.0000e-005 | 0.0000 | 0.7010 |
| **Total** | **3.5000e-004** | **2.5000e-004** | **2.5000e-003** | **1.0000e-005** | **8.0000e-004** | **1.0000e-005** | **8.1000e-004** | **2.1000e-004** | **1.0000e-005** | **2.2000e-004** | **0.0000** | **0.7005** | **0.7005** | **2.0000e-005** | **0.0000** | **0.7010** |

### 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 | 0.0542 | 0.0613 | 9.0000e-005 | | 2.8900e-003 | 2.8900e-003 | | 2.6700e-003 | 2.6700e-003 | 0.0000 | 8.1853 | 8.1853 | 2.5700e-003 | 0.0000 | 8.2496 |
| Paving | 2.1000e-003 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| **Total** | **7.5700e-003** | **0.0542** | **0.0613** | **9.0000e-005** | | **2.8900e-003** | **2.8900e-003** | | **2.6700e-003** | **2.6700e-003** | **0.0000** | **8.1853** | **8.1853** | **2.5700e-003** | **0.0000** | **8.2496** |

## 3.5 Paving - 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 | 3.5000e-004 | 2.5000e-004 | 2.5000e-003 | 1.0000e-005 | 8.0000e-004 | 1.0000e-005 | 8.1000e-004 | 2.1000e-004 | 1.0000e-005 | 2.2000e-004 | 0.0000 | 0.7005 | 0.7005 | 2.0000e-005 | 0.0000 | 0.7010 |
| **Total** | **3.5000e-004** | **2.5000e-004** | **2.5000e-003** | **1.0000e-005** | **8.0000e-004** | **1.0000e-005** | **8.1000e-004** | **2.1000e-004** | **1.0000e-005** | **2.2000e-004** | **0.0000** | **0.7005** | **0.7005** | **2.0000e-005** | **0.0000** | **0.7010** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 1.7523 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0900e-003 | 7.6300e-003 | 9.0900e-003 | 1.0000e-005 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 1.2766 | 1.2766 | 9.0000e-005 | 0.0000 | 1.2788 |
| **Total** | **1.7534** | **7.6300e-003** | **9.0900e-003** | **1.0000e-005** | | **4.7000e-004** | **4.7000e-004** | | **4.7000e-004** | **4.7000e-004** | **0.0000** | **1.2766** | **1.2766** | **9.0000e-005** | **0.0000** | **1.2788** |

## 3.6 Architectural Coating - 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 | 3.1000e-004 | 2.2000e-004 | 2.2500e-003 | 1.0000e-005 | 7.2000e-004 | 1.0000e-005 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.6305 | 0.6305 | 2.0000e-005 | 0.0000 | 0.6309 |
| **Total** | **3.1000e-004** | **2.2000e-004** | **2.2500e-003** | **1.0000e-005** | **7.2000e-004** | **1.0000e-005** | **7.3000e-004** | **1.9000e-004** | **0.0000** | **2.0000e-004** | **0.0000** | **0.6305** | **0.6305** | **2.0000e-005** | **0.0000** | **0.6309** |

**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 | 1.7523 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 1.0900e-003 | 7.6300e-003 | 9.0900e-003 | 1.0000e-005 | | 4.7000e-004 | 4.7000e-004 | | 4.7000e-004 | 4.7000e-004 | 0.0000 | 1.2766 | 1.2766 | 9.0000e-005 | 0.0000 | 1.2788 |
| **Total** | **1.7534** | **7.6300e-003** | **9.0900e-003** | **1.0000e-005** | | **4.7000e-004** | **4.7000e-004** | | **4.7000e-004** | **4.7000e-004** | **0.0000** | **1.2766** | **1.2766** | **9.0000e-005** | **0.0000** | **1.2788** |

### 3.6 Architectural Coating - 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 | 3.1000e-004 | 2.2000e-004 | 2.2500e-003 | 1.0000e-005 | 7.2000e-004 | 1.0000e-005 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.6305 | 0.6305 | 2.0000e-005 | 0.0000 | 0.6309 |
| **Total** | **3.1000e-004** | **2.2000e-004** | **2.2500e-003** | **1.0000e-005** | **7.2000e-004** | **1.0000e-005** | **7.3000e-004** | **1.9000e-004** | **0.0000** | **2.0000e-004** | **0.0000** | **0.6305** | **0.6305** | **2.0000e-005** | **0.0000** | **0.6309** |

## 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 | 0.0610 | 0.2538 | 0.6960 | 2.6700e-003 | 0.2759 | 2.0300e-003 | 0.2780 | 0.0739 | 1.8900e-003 | 0.0758 | 0.0000 | 247.4804 | 247.4804 | 0.0123 | 0.0000 | 247.7867 |
| Unmitigated | 0.0610 | 0.2538 | 0.6960 | 2.6700e-003 | 0.2759 | 2.0300e-003 | 0.2780 | 0.0739 | 1.8900e-003 | 0.0758 | 0.0000 | 247.4804 | 247.4804 | 0.0123 | 0.0000 | 247.7867 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,001 | 14,001 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 293.06 | 293.06 | 293.06 | 718,508 | 718,508 |
| Total | 299.06 | 299.06 | 299.06 | 732,509 | 732,509 |

## 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 |
| Apartments Low Rise | 7.22 | 7.22 | 7.22 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 7.22 | 7.22 | 7.22 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 109.8622 | 109.8622 | 4.4000e-003 | 9.8000e-004 | 110.2637 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 109.8622 | 109.8622 | 4.4000e-003 | 9.8000e-004 | 110.2637 |
| NaturalGas Mitigated | 1.3800e-003 | 0.0125 | 0.0103 | 8.0000e-005 | | 9.5000e-004 | 9.5000e-004 | | 9.5000e-004 | 9.5000e-004 | 0.0000 | 13.6573 | 13.6573 | 2.6000e-004 | 2.5000e-004 | 13.7384 |
| NaturalGas Unmitigated | 1.3800e-003 | 0.0125 | 0.0103 | 8.0000e-005 | | 9.5000e-004 | 9.5000e-004 | | 9.5000e-004 | 9.5000e-004 | 0.0000 | 13.6573 | 13.6573 | 2.6000e-004 | 2.5000e-004 | 13.7384 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Low Rise | 11225.5 | 6.0000e-005 | 5.2000e-004 | 2.2000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.5990 | 0.5990 | 1.0000e-005 | 1.0000e-005 | 0.6026 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 244702 | 1.3200e-003 | 0.0120 | 0.0101 | 7.0000e-005 | | 9.1000e-004 | 9.1000e-004 | | 9.1000e-004 | 9.1000e-004 | 0.0000 | 13.0582 | 13.0582 | 2.5000e-004 | 2.4000e-004 | 13.1358 |
| **Total** | | **1.3800e-003** | **0.0125** | **0.0103** | **7.0000e-005** | | **9.5000e-004** | **9.5000e-004** | | **9.5000e-004** | **9.5000e-004** | **0.0000** | **13.6573** | **13.6573** | **2.6000e-004** | **2.5000e-004** | **13.7384** |

**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 | | | | | |
| Apartments Low Rise | 11225.5 | 6.0000e-005 | 5.2000e-004 | 2.2000e-004 | 0.0000 | | 4.0000e-005 | 4.0000e-005 | | 4.0000e-005 | 4.0000e-005 | 0.0000 | 0.5990 | 0.5990 | 1.0000e-005 | 1.0000e-005 | 0.6026 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 244702 | 1.3200e-003 | 0.0120 | 0.0101 | 7.0000e-005 | | 9.1000e-004 | 9.1000e-004 | | 9.1000e-004 | 9.1000e-004 | 0.0000 | 13.0582 | 13.0582 | 2.5000e-004 | 2.4000e-004 | 13.1358 |
| **Total** | | **1.3800e-003** | **0.0125** | **0.0103** | **7.0000e-005** | | **9.5000e-004** | **9.5000e-004** | | **9.5000e-004** | **9.5000e-004** | **0.0000** | **13.6573** | **13.6573** | **2.6000e-004** | **2.5000e-004** | **13.7384** |

## 5.3 Energy by Land Use - Electricity

**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4243.98 | 0.8649 | 3.0000e-005 | 1.0000e-005 | 0.8681 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 534827 | 108.9973 | 4.3700e-003 | 9.7000e-004 | 109.3956 |
| **Total** | | **109.8622** | **4.4000e-003** | **9.8000e-004** | **110.2637** |

**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Low Rise | 4243.98 | 0.8649 | 3.0000e-005 | 1.0000e-005 | 0.8681 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 534827 | 108.9973 | 4.3700e-003 | 9.7000e-004 | 109.3956 |
| **Total** | | **109.8622** | **4.4000e-003** | **9.8000e-004** | **110.2637** |

# 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 | 0.6634 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |
| Unmitigated | 0.6634 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |

## 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 | 0.0787 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5843 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |
| **Total** | **0.6634** | **1.0000e-004** | **8.7800e-003** | **0.0000** | | **5.0000e-005** | **5.0000e-005** | | **5.0000e-005** | **5.0000e-005** | **0.0000** | **0.0148** | **0.0148** | **2.0000e-005** | **0.0000** | **0.0152** |

## 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 | 0.0787 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.5843 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.5000e-004 | 1.0000e-004 | 8.7800e-003 | 0.0000 | | 5.0000e-005 | 5.0000e-005 | | 5.0000e-005 | 5.0000e-005 | 0.0000 | 0.0148 | 0.0148 | 2.0000e-005 | 0.0000 | 0.0152 |
| **Total** | **0.6634** | **1.0000e-004** | **8.7800e-003** | **0.0000** | | **5.0000e-005** | **5.0000e-005** | | **5.0000e-005** | **5.0000e-005** | **0.0000** | **0.0148** | **0.0148** | **2.0000e-005** | **0.0000** | **0.0152** |

# 7.0 Water Detail

## 7.1 Mitigation Measures Water

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| Category | MT/yr | | | |
| Mitigated | 80.7837 | 0.8879 | 0.0215 | 109.4002 |
| Unmitigated | 80.7837 | 0.8879 | 0.0215 | 109.4002 |

## 7.2 Water by Land Use

**Unmitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0.0521232 / 0.0410754 | 0.2479 | 1.7100e-003 | 4.0000e-005 | 0.3031 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 27.108 / 0 | 80.5359 | 0.8862 | 0.0215 | 109.0971 |
| **Total** | | **80.7837** | **0.8879** | **0.0215** | **109.4002** |

### 7.2 Water by Land Use

**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | Mgal | MT/yr | | | |
| Apartments Low Rise | 0.0521232 / 0.0410754 | 0.2479 | 1.7100e-003 | 4.0000e-005 | 0.3031 |
| Other Asphalt Surfaces | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 27.108 / 0 | 80.5359 | 0.8862 | 0.0215 | 109.0971 |
| **Total** | | **80.7837** | **0.8879** | **0.0215** | **109.4002** |

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

**Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|
| | MT/yr | | | |
| Mitigated | 21.0400 | 1.2434 | 0.0000 | 52.1257 |
| Unmitigated | 28.0534 | 1.6579 | 0.0000 | 69.5010 |

## 8.2 Waste by Land Use

**Unmitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 0.46 | 0.0934 | 5.5200e-003 | 0.0000 | 0.2313 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 137.74 | 27.9600 | 1.6524 | 0.0000 | 69.2697 |
| **Total** | | **28.0534** | **1.6579** | **0.0000** | **69.5010** |

## 8.2 Waste by Land Use

**Mitigated**

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|
| Land Use | tons | MT/yr | | | |
| Apartments Low Rise | 0.345 | 0.0700 | 4.1400e-003 | 0.0000 | 0.1735 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 103.305 | 20.9700 | 1.2393 | 0.0000 | 51.9522 |
| **Total** | | **21.0400** | **1.2434** | **0.0000** | **52.1257** |

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2

**San Diego County APCD Air District, Summer**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 146.53 | 1000sqft | 1.37 | 146,528.00 | 0 |
| Other Asphalt Surfaces | 1.60 | Acre | 1.60 | 69,696.00 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
146,528 sf storage
1 care taker unit

Construction Phase - Construction calculated separately

Grading -

Architectural Coating -

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 27,108,050 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |

| | | | |
|---|---|---|---|
| tblLandUse | LotAcreage | 3.36 | 1.37 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | HO_TL | 7.50 | 7.22 |
| tblVehicleTrips | HS_TL | 7.30 | 7.22 |
| tblVehicleTrips | HW_TL | 10.80 | 7.22 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 33,885,062.50 | 27,108,050.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 4.1425 | 42.4618 | 22.0239 | 0.0446 | 18.2141 | 2.1985 | 20.4126 | 9.9699 | 2.0226 | 11.9925 | 0.0000 | 4,386.9346 | 4,386.9346 | 1.1964 | 0.0000 | 4,405.0371 |
| 2021 | 350.7439 | 21.3047 | 19.9496 | 0.0442 | 0.9995 | 0.9715 | 1.9710 | 0.2706 | 0.9135 | 1.1841 | 0.0000 | 4,351.5165 | 4,351.5165 | 0.7123 | 0.0000 | 4,369.3251 |
| **Maximum** | **350.7439** | **42.4618** | **22.0239** | **0.0446** | **18.2141** | **2.1985** | **20.4126** | **9.9699** | **2.0226** | **11.9925** | **0.0000** | **4,386.9346** | **4,386.9346** | **1.1964** | **0.0000** | **4,405.0371** |

**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 | | | | | |
| 2020 | 4.1425 | 42.4618 | 22.0239 | 0.0446 | 18.2141 | 2.1985 | 20.4126 | 9.9699 | 2.0226 | 11.9925 | 0.0000 | 4,386.9346 | 4,386.9346 | 1.1964 | 0.0000 | 4,405.0371 |
| 2021 | 350.7439 | 21.3047 | 19.9496 | 0.0442 | 0.9995 | 0.9715 | 1.9710 | 0.2706 | 0.9135 | 1.1841 | 0.0000 | 4,351.5165 | 4,351.5165 | 0.7123 | 0.0000 | 4,369.3251 |
| **Maximum** | **350.7439** | **42.4618** | **22.0239** | **0.0446** | **18.2141** | **2.1985** | **20.4126** | **9.9699** | **2.0226** | **11.9925** | **0.0000** | **4,386.9346** | **4,386.9346** | **1.1964** | **0.0000** | **4,405.0371** |

9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2 - San Diego County APCD Air District, Summer

| | ROG | NOx | 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 | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Energy | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| Mobile | 0.3562 | 1.3612 | 3.9271 | 0.0153 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,562.9373 | 1,562.9373 | 0.0745 | | 1,564.7991 |
| **Total** | **4.0007** | **1.4309** | **4.0810** | **0.0157** | **1.5526** | **0.0169** | **1.5695** | **0.4148** | **0.0161** | **0.4309** | **0.0000** | **1,645.6089** | **1,645.6089** | **0.0763** | **1.5100e-003** | **1,647.9666** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Energy | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| Mobile | 0.3562 | 1.3612 | 3.9271 | 0.0153 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,562.9373 | 1,562.9373 | 0.0745 | | 1,564.7991 |
| **Total** | **4.0007** | **1.4309** | **4.0810** | **0.0157** | **1.5526** | **0.0169** | **1.5695** | **0.4148** | **0.0161** | **0.4309** | **0.0000** | **1,645.6089** | **1,645.6089** | **0.0763** | **1.5100e-003** | **1,647.9666** |

| | ROG | NOx | 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 | 8/20/2020 | 8/24/2020 | 5 | 3 | |
| 2 | Grading | Grading | 8/25/2020 | 9/1/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 9/2/2020 | 7/6/2021 | 5 | 220 | |
| 4 | Paving | Paving | 7/7/2021 | 7/20/2021 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 7/21/2021 | 8/3/2021 | 5 | 10 | |

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

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.6**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 219,792; Non-Residential Outdoor: 73,264; Striped Parking Area: 4,182 (Architectural Coating – sqft)**

**OffRoad Equipment**

9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2 - San Diego County APCD Air District, Summer

| 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 | Tractors/Loaders/Backhoes | 3 | 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 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 92.00 | 36.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.0765 | 42.4173 | 21.5136 | 0.0380 | | 2.1974 | 2.1974 | | 2.0216 | 2.0216 | | 3,685.1016 | 3,685.1016 | 1.1918 | | 3,714.8975 |
| **Total** | **4.0765** | **42.4173** | **21.5136** | **0.0380** | **18.0663** | **2.1974** | **20.2637** | **9.9307** | **2.0216** | **11.9523** | | **3,685.1016** | **3,685.1016** | **1.1918** | | **3,714.8975** |

## 3.2 Site Preparation - 2020

### 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 | 0.0661 | 0.0445 | 0.5102 | 1.5200e-003 | 0.1479 | 1.0400e-003 | 0.1489 | 0.0392 | 9.6000e-004 | 0.0402 | | 151.6945 | 151.6945 | 4.5300e-003 | | 151.8077 |
| **Total** | **0.0661** | **0.0445** | **0.5102** | **1.5200e-003** | **0.1479** | **1.0400e-003** | **0.1489** | **0.0392** | **9.6000e-004** | **0.0402** | | **151.6945** | **151.6945** | **4.5300e-003** | | **151.8077** |

### 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 | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.0765 | 42.4173 | 21.5136 | 0.0380 | | 2.1974 | 2.1974 | | 2.0216 | 2.0216 | 0.0000 | 3,685.1016 | 3,685.1016 | 1.1918 | | 3,714.8975 |
| **Total** | **4.0765** | **42.4173** | **21.5136** | **0.0380** | **18.0663** | **2.1974** | **20.2637** | **9.9307** | **2.0216** | **11.9523** | **0.0000** | **3,685.1016** | **3,685.1016** | **1.1918** | | **3,714.8975** |

## 3.2 Site Preparation - 2020

**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 | 0.0661 | 0.0445 | 0.5102 | 1.5200e-003 | 0.1479 | 1.0400e-003 | 0.1489 | 0.0392 | 9.6000e-004 | 0.0402 | | 151.6945 | 151.6945 | 4.5300e-003 | | 151.8077 |
| **Total** | **0.0661** | **0.0445** | **0.5102** | **1.5200e-003** | **0.1479** | **1.0400e-003** | **0.1489** | **0.0392** | **9.6000e-004** | **0.0402** | | **151.6945** | **151.6945** | **4.5300e-003** | | **151.8077** |

## 3.3 Grading - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.4288 | 26.3859 | 16.0530 | 0.0297 | | 1.2734 | 1.2734 | | 1.1716 | 1.1716 | | 2,872.4851 | 2,872.4851 | 0.9290 | | 2,895.7106 |
| **Total** | **2.4288** | **26.3859** | **16.0530** | **0.0297** | **6.5523** | **1.2734** | **7.8258** | **3.3675** | **1.1716** | **4.5390** | | **2,872.4851** | **2,872.4851** | **0.9290** | | **2,895.7106** |

## 3.3 Grading - 2020

### Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0550 | 0.0371 | 0.4252 | 1.2700e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 126.4121 | 126.4121 | 3.7700e-003 | | 126.5064 |
| **Total** | **0.0550** | **0.0371** | **0.4252** | **1.2700e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **126.4121** | **126.4121** | **3.7700e-003** | | **126.5064** |

### 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.4288 | 26.3859 | 16.0530 | 0.0297 | | 1.2734 | 1.2734 | | 1.1716 | 1.1716 | 0.0000 | 2,872.4851 | 2,872.4851 | 0.9290 | | 2,895.7106 |
| **Total** | **2.4288** | **26.3859** | **16.0530** | **0.0297** | **6.5523** | **1.2734** | **7.8258** | **3.3675** | **1.1716** | **4.5390** | **0.0000** | **2,872.4851** | **2,872.4851** | **0.9290** | | **2,895.7106** |

## 3.3 Grading - 2020

**Mitigated Construction Off-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | | 0.0000 |
| Worker | 0.0550 | 0.0371 | 0.4252 | 1.2700e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 126.4121 | 126.4121 | 3.7700e-003 | | 126.5064 |
| **Total** | **0.0550** | **0.0371** | **0.4252** | **1.2700e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **126.4121** | **126.4121** | **3.7700e-003** | | **126.5064** |

## 3.4 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## 3.4 Building Construction - 2020

### 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 | 0.1345 | 4.0593 | 1.0342 | 9.8600e-003 | 0.2437 | 0.0199 | 0.2636 | 0.0702 | 0.0190 | 0.0892 | | 1,058.5443 | 1,058.5443 | 0.0781 | | 1,060.4965 |
| Worker | 0.3376 | 0.2275 | 2.6078 | 7.7800e-003 | 0.7558 | 5.3000e-003 | 0.7611 | 0.2005 | 4.8900e-003 | 0.2054 | | 775.3273 | 775.3273 | 0.0232 | | 775.9061 |
| **Total** | **0.4721** | **4.2868** | **3.6420** | **0.0176** | **0.9995** | **0.0252** | **1.0246** | **0.2706** | **0.0239** | **0.2945** | | **1,833.8716** | **1,833.8716** | **0.1012** | | **1,836.4026** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | 0.0000 | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | **0.0000** | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## 3.4 Building Construction - 2020

**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 | 0.1345 | 4.0593 | 1.0342 | 9.8600e-003 | 0.2437 | 0.0199 | 0.2636 | 0.0702 | 0.0190 | 0.0892 | | 1,058.5443 | 1,058.5443 | 0.0781 | | 1,060.4965 |
| Worker | 0.3376 | 0.2275 | 2.6078 | 7.7800e-003 | 0.7558 | 5.3000e-003 | 0.7611 | 0.2005 | 4.8900e-003 | 0.2054 | | 775.3273 | 775.3273 | 0.0232 | | 775.9061 |
| **Total** | **0.4721** | **4.2868** | **3.6420** | **0.0176** | **0.9995** | **0.0252** | **1.0246** | **0.2706** | **0.0239** | **0.2945** | | **1,833.8716** | **1,833.8716** | **0.1012** | | **1,836.4026** |

## 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 | 0.1089 | 3.6659 | 0.9342 | 9.7500e-003 | 0.2437 | 7.7000e-003 | 0.2514 | 0.0702 | 7.3600e-003 | 0.0775 | | 1,048.8670 | 1,048.8670 | 0.0750 | | 1,050.7406 |
| Worker | 0.3182 | 0.2067 | 2.4402 | 7.5200e-003 | 0.7558 | 5.2200e-003 | 0.7610 | 0.2005 | 4.8100e-003 | 0.2053 | | 749.2856 | 749.2856 | 0.0214 | | 749.8202 |
| **Total** | **0.4271** | **3.8726** | **3.3744** | **0.0173** | **0.9995** | **0.0129** | **1.0124** | **0.2706** | **0.0122** | **0.2828** | | **1,798.1526** | **1,798.1526** | **0.0963** | | **1,800.5608** |

### 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 | 0.1089 | 3.6659 | 0.9342 | 9.7500e-003 | 0.2437 | 7.7000e-003 | 0.2514 | 0.0702 | 7.3600e-003 | 0.0775 | | 1,048.8670 | 1,048.8670 | 0.0750 | | 1,050.7406 |
| Worker | 0.3182 | 0.2067 | 2.4402 | 7.5200e-003 | 0.7558 | 5.2200e-003 | 0.7610 | 0.2005 | 4.8100e-003 | 0.2053 | | 749.2856 | 749.2856 | 0.0214 | | 749.8202 |
| **Total** | **0.4271** | **3.8726** | **3.3744** | **0.0173** | **0.9995** | **0.0129** | **1.0124** | **0.2706** | **0.0122** | **0.2828** | | **1,798.1526** | **1,798.1526** | **0.0963** | | **1,800.5608** |

## 3.5 Paving - 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 | 1.0940 | 10.8399 | 12.2603 | 0.0189 | | 0.5788 | 0.5788 | | 0.5342 | 0.5342 | | 1,804.5523 | 1,804.5523 | 0.5670 | | 1,818.7270 |
| Paving | 0.4192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5132** | **10.8399** | **12.2603** | **0.0189** | | **0.5788** | **0.5788** | | **0.5342** | **0.5342** | | **1,804.5523** | **1,804.5523** | **0.5670** | | **1,818.7270** |

## 3.5 Paving - 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 | 0.0692 | 0.0449 | 0.5305 | 1.6300e-003 | 0.1643 | 1.1300e-003 | 0.1654 | 0.0436 | 1.0500e-003 | 0.0446 | | 162.8882 | 162.8882 | 4.6500e-003 | | 163.0044 |
| **Total** | **0.0692** | **0.0449** | **0.5305** | **1.6300e-003** | **0.1643** | **1.1300e-003** | **0.1654** | **0.0436** | **1.0500e-003** | **0.0446** | | **162.8882** | **162.8882** | **4.6500e-003** | | **163.0044** |

### 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 | 1.0940 | 10.8399 | 12.2603 | 0.0189 | | 0.5788 | 0.5788 | | 0.5342 | 0.5342 | 0.0000 | 1,804.5523 | 1,804.5523 | 0.5670 | | 1,818.7270 |
| Paving | 0.4192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5132** | **10.8399** | **12.2603** | **0.0189** | | **0.5788** | **0.5788** | | **0.5342** | **0.5342** | **0.0000** | **1,804.5523** | **1,804.5523** | **0.5670** | | **1,818.7270** |

## 3.5 Paving - 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 | 0.0692 | 0.0449 | 0.5305 | 1.6300e-003 | 0.1643 | 1.1300e-003 | 0.1654 | 0.0436 | 1.0500e-003 | 0.0446 | | 162.8882 | 162.8882 | 4.6500e-003 | | 163.0044 |
| **Total** | **0.0692** | **0.0449** | **0.5305** | **1.6300e-003** | **0.1643** | **1.1300e-003** | **0.1654** | **0.0436** | **1.0500e-003** | **0.0446** | | **162.8882** | **162.8882** | **4.6500e-003** | | **163.0044** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 350.4628 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **350.6817** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0623 | 0.0405 | 0.4774 | 1.4700e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 146.5994 | 146.5994 | 4.1800e-003 | | 146.7040 |
| **Total** | **0.0623** | **0.0405** | **0.4774** | **1.4700e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **146.5994** | **146.5994** | **4.1800e-003** | | **146.7040** |

**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 | 350.4628 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **350.6817** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0623 | 0.0405 | 0.4774 | 1.4700e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 146.5994 | 146.5994 | 4.1800e-003 | | 146.7040 |
| **Total** | **0.0623** | **0.0405** | **0.4774** | **1.4700e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **146.5994** | **146.5994** | **4.1800e-003** | | **146.7040** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.3562 | 1.3612 | 3.9271 | 0.0153 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,562.9373 | 1,562.9373 | 0.0745 | | 1,564.7991 |
| Unmitigated | 0.3562 | 1.3612 | 3.9271 | 0.0153 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,562.9373 | 1,562.9373 | 0.0745 | | 1,564.7991 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,001 | 14,001 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 293.06 | 293.06 | 293.06 | 718,508 | 718,508 |
| Total | 299.06 | 299.06 | 299.06 | 732,509 | 732,509 |

## 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 |
| Apartments Low Rise | 7.22 | 7.22 | 7.22 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 7.22 | 7.22 | 7.22 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| NaturalGas Unmitigated | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 30.7548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 670.416 | 7.2300e-003 | 0.0657 | 0.0552 | 3.9000e-004 | | 5.0000e-003 | 5.0000e-003 | | 5.0000e-003 | 5.0000e-003 | | 78.8724 | 78.8724 | 1.5100e-003 | 1.4500e-003 | 79.3411 |
| **Total** | | **7.5600e-003** | **0.0686** | **0.0564** | **4.1000e-004** | | **5.2300e-003** | **5.2300e-003** | | **5.2300e-003** | **5.2300e-003** | | **82.4907** | **82.4907** | **1.5800e-003** | **1.5200e-003** | **82.9809** |

**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 | | | | | |
| Apartments Low Rise | 0.0307548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.670416 | 7.2300e-003 | 0.0657 | 0.0552 | 3.9000e-004 | | 5.0000e-003 | 5.0000e-003 | | 5.0000e-003 | 5.0000e-003 | | 78.8724 | 78.8724 | 1.5100e-003 | 1.4500e-003 | 79.3411 |
| **Total** | | **7.5600e-003** | **0.0686** | **0.0564** | **4.1000e-004** | | **5.2300e-003** | **5.2300e-003** | | **5.2300e-003** | **5.2300e-003** | | **82.4907** | **82.4907** | **1.5800e-003** | **1.5200e-003** | **82.9809** |

# 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 | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Unmitigated | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |

## 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 | 0.4314 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.2017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8600e-003 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1810 | 0.1810 | 2.3000e-004 | | 0.1866 |
| **Total** | **3.6370** | **1.0900e-003** | **0.0975** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1810** | **0.1810** | **2.3000e-004** | **0.0000** | **0.1866** |

### 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 | 0.4314 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.2017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8600e-003 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1810 | 0.1810 | 2.3000e-004 | | 0.1866 |
| **Total** | **3.6370** | **1.0900e-003** | **0.0975** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1810** | **0.1810** | **2.3000e-004** | **0.0000** | **0.1866** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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

# 9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2

**San Diego County APCD Air District, Winter**

## 1.0 Project Characteristics

### 1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|---|---|---|---|---|---|
| Unrefrigerated Warehouse-No Rail | 146.53 | 1000sqft | 1.37 | 146,528.00 | 0 |
| Other Asphalt Surfaces | 1.60 | Acre | 1.60 | 69,696.00 | 0 |
| Apartments Low Rise | 1.00 | Dwelling Unit | 0.03 | 1,930.00 | 3 |

### 1.2 Other Project Characteristics

| | | | | | |
|---|---|---|---|---|---|
| **Urbanization** | Urban | **Wind Speed (m/s)** | 2.6 | **Precipitation Freq (Days)** | 40 |
| **Climate Zone** | 13 | | | **Operational Year** | 2027 |
| **Utility Company** | San Diego Gas & Electric | | | | |
| **CO2 Intensity (lb/MWhr)** | 449.3 | **CH4 Intensity (lb/MWhr)** | 0.018 | **N2O Intensity (lb/MWhr)** | 0.004 |

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

Project Characteristics - Energy intensity factors updated based on SDG&E renewable procurement
(449.3, 0.018, 0.004)

Land Use - 3.0 acre site
146,528 sf storage
1 care taker unit

Construction Phase - Construction calculated separately

Grading -

Architectural Coating -

Vehicle Trips - Trip length - 7.22 miles
Storage - 2 trips/ksf
Care taker - 6 trips/unit

Woodstoves - No woodstoves or fireplaces

Area Coating - SDAPCD Rule 67.0.1

Energy Use -

Water And Wastewater - CalGreen requires a 20% reduction in indoor water use that is not included in CalEEMod (52,123.22 gallons, 27,108,050 gallons)

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|---|---|---|---|
| tblAreaCoating | Area_EF_Nonresidential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Nonresidential_Interior | 250 | 100 |
| tblAreaCoating | Area_EF_Parking | 250 | 100 |
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 150 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 100 |
| tblFireplaces | FireplaceDayYear | 82.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 3,078.40 | 0.00 |
| tblFireplaces | NumberGas | 0.55 | 0.00 |
| tblFireplaces | NumberNoFireplace | 0.10 | 1.00 |
| tblFireplaces | NumberWood | 0.35 | 0.00 |
| tblLandUse | LandUseSquareFeet | 1,000.00 | 1,930.00 |

| | | | |
|---|---|---|---|
| tblLandUse | LotAcreage | 3.36 | 1.37 |
| tblLandUse | LotAcreage | 0.06 | 0.03 |
| tblProjectCharacteristics | CH4IntensityFactor | 0.029 | 0.018 |
| tblProjectCharacteristics | CO2IntensityFactor | 720.49 | 449.3 |
| tblProjectCharacteristics | N2OIntensityFactor | 0.006 | 0.004 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CC_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CNW_TL | 7.30 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | CW_TL | 9.50 | 7.22 |
| tblVehicleTrips | HO_TL | 7.50 | 7.22 |
| tblVehicleTrips | HS_TL | 7.30 | 7.22 |
| tblVehicleTrips | HW_TL | 10.80 | 7.22 |
| tblVehicleTrips | ST_TR | 7.16 | 6.00 |
| tblVehicleTrips | ST_TR | 1.68 | 2.00 |
| tblVehicleTrips | SU_TR | 6.07 | 6.00 |
| tblVehicleTrips | SU_TR | 1.68 | 2.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.00 |
| tblVehicleTrips | WD_TR | 1.68 | 2.00 |
| tblWater | IndoorWaterUseRate | 65,154.03 | 52,123.22 |
| tblWater | IndoorWaterUseRate | 33,885,062.50 | 27,108,050.00 |
| tblWoodstoves | NumberCatalytic | 0.05 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 0.05 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 82.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 3,019.20 | 0.00 |

# 2.0 Emissions Summary

## 2.1 Overall Construction (Maximum Daily Emission)

**Unmitigated Construction**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2020 | 4.1513 | 42.4673 | 21.9947 | 0.0438 | 18.2141 | 2.1985 | 20.4126 | 9.9699 | 2.0226 | 11.9925 | 0.0000 | 4,312.1684 | 4,312.1684 | 1.1961 | 0.0000 | 4,330.3623 |
| 2021 | 350.7523 | 21.3203 | 19.9092 | 0.0435 | 0.9995 | 0.9719 | 1.9713 | 0.2706 | 0.9138 | 1.1844 | 0.0000 | 4,278.4972 | 4,278.4972 | 0.7158 | 0.0000 | 4,296.3927 |
| **Maximum** | **350.7523** | **42.4673** | **21.9947** | **0.0438** | **18.2141** | **2.1985** | **20.4126** | **9.9699** | **2.0226** | **11.9925** | **0.0000** | **4,312.1684** | **4,312.1684** | **1.1961** | **0.0000** | **4,330.3623** |

**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 | | | | | |
| 2020 | 4.1513 | 42.4673 | 21.9947 | 0.0438 | 18.2141 | 2.1985 | 20.4126 | 9.9699 | 2.0226 | 11.9925 | 0.0000 | 4,312.1684 | 4,312.1684 | 1.1961 | 0.0000 | 4,330.3623 |
| 2021 | 350.7523 | 21.3203 | 19.9092 | 0.0435 | 0.9995 | 0.9719 | 1.9713 | 0.2706 | 0.9138 | 1.1844 | 0.0000 | 4,278.4972 | 4,278.4972 | 0.7158 | 0.0000 | 4,296.3926 |
| **Maximum** | **350.7523** | **42.4673** | **21.9947** | **0.0438** | **18.2141** | **2.1985** | **20.4126** | **9.9699** | **2.0226** | **11.9925** | **0.0000** | **4,312.1684** | **4,312.1684** | **1.1961** | **0.0000** | **4,330.3623** |

9603 All Right Storage - Cottonwood Avenue - Phases 1 and 2 - San Diego County APCD Air District, Winter

| | ROG | NOx | 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 | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Energy | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| Mobile | 0.3436 | 1.3900 | 3.8679 | 0.0145 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,484.2317 | 1,484.2317 | 0.0750 | | 1,486.1073 |
| **Total** | **3.9881** | **1.4596** | **4.0218** | **0.0149** | **1.5526** | **0.0169** | **1.5695** | **0.4148** | **0.0161** | **0.4310** | **0.0000** | **1,566.9033** | **1,566.9033** | **0.0768** | **1.5100e-003** | **1,569.2748** |

### Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Energy | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| Mobile | 0.3436 | 1.3900 | 3.8679 | 0.0145 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,484.2317 | 1,484.2317 | 0.0750 | | 1,486.1073 |
| **Total** | **3.9881** | **1.4596** | **4.0218** | **0.0149** | **1.5526** | **0.0169** | **1.5695** | **0.4148** | **0.0161** | **0.4310** | **0.0000** | **1,566.9033** | **1,566.9033** | **0.0768** | **1.5100e-003** | **1,569.2748** |

| | ROG | NOx | 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 | 8/20/2020 | 8/24/2020 | 5 | 3 | |
| 2 | Grading | Grading | 8/25/2020 | 9/1/2020 | 5 | 6 | |
| 3 | Building Construction | Building Construction | 9/2/2020 | 7/6/2021 | 5 | 220 | |
| 4 | Paving | Paving | 7/7/2021 | 7/20/2021 | 5 | 10 | |
| 5 | Architectural Coating | Architectural Coating | 7/21/2021 | 8/3/2021 | 5 | 10 | |

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

**Acres of Grading (Grading Phase): 3**

**Acres of Paving: 1.6**

**Residential Indoor: 3,908; Residential Outdoor: 1,303; Non-Residential Indoor: 219,792; Non-Residential Outdoor: 73,264; Striped Parking Area: 4,182 (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 | Tractors/Loaders/Backhoes | 3 | 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 |
| Paving | Cement and Mortar Mixers | 2 | 6.00 | 9 | 0.56 |
| Paving | Pavers | 1 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 6.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 6.00 | 80 | 0.38 |
| Paving | Tractors/Loaders/Backhoes | 1 | 8.00 | 97 | 0.37 |
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |

## Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|---|---|---|---|---|---|---|---|---|---|---|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 92.00 | 36.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 8 | 20.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

## 3.1 Mitigation Measures Construction

## 3.2 Site Preparation - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.0765 | 42.4173 | 21.5136 | 0.0380 | | 2.1974 | 2.1974 | | 2.0216 | 2.0216 | | 3,685.1016 | 3,685.1016 | 1.1918 | | 3,714.8975 |
| **Total** | **4.0765** | **42.4173** | **21.5136** | **0.0380** | **18.0663** | **2.1974** | **20.2637** | **9.9307** | **2.0216** | **11.9523** | | **3,685.1016** | **3,685.1016** | **1.1918** | | **3,714.8975** |

## 3.2 Site Preparation - 2020

### 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 | 0.0748 | 0.0500 | 0.4810 | 1.4300e-003 | 0.1479 | 1.0400e-003 | 0.1489 | 0.0392 | 9.6000e-004 | 0.0402 | | 142.4038 | 142.4038 | 4.2900e-003 | | 142.5109 |
| **Total** | **0.0748** | **0.0500** | **0.4810** | **1.4300e-003** | **0.1479** | **1.0400e-003** | **0.1489** | **0.0392** | **9.6000e-004** | **0.0402** | | **142.4038** | **142.4038** | **4.2900e-003** | | **142.5109** |

### 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 | | | | | 18.0663 | 0.0000 | 18.0663 | 9.9307 | 0.0000 | 9.9307 | | | 0.0000 | | | 0.0000 |
| Off-Road | 4.0765 | 42.4173 | 21.5136 | 0.0380 | | 2.1974 | 2.1974 | | 2.0216 | 2.0216 | 0.0000 | 3,685.1016 | 3,685.1016 | 1.1918 | | 3,714.8975 |
| **Total** | **4.0765** | **42.4173** | **21.5136** | **0.0380** | **18.0663** | **2.1974** | **20.2637** | **9.9307** | **2.0216** | **11.9523** | **0.0000** | **3,685.1016** | **3,685.1016** | **1.1918** | | **3,714.8975** |

## 3.2 Site Preparation - 2020

**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 | 0.0748 | 0.0500 | 0.4810 | 1.4300e-003 | 0.1479 | 1.0400e-003 | 0.1489 | 0.0392 | 9.6000e-004 | 0.0402 | | 142.4038 | 142.4038 | 4.2900e-003 | | 142.5109 |
| **Total** | **0.0748** | **0.0500** | **0.4810** | **1.4300e-003** | **0.1479** | **1.0400e-003** | **0.1489** | **0.0392** | **9.6000e-004** | **0.0402** | | **142.4038** | **142.4038** | **4.2900e-003** | | **142.5109** |

## 3.3 Grading - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.4288 | 26.3859 | 16.0530 | 0.0297 | | 1.2734 | 1.2734 | | 1.1716 | 1.1716 | | 2,872.4851 | 2,872.4851 | 0.9290 | | 2,895.7106 |
| **Total** | **2.4288** | **26.3859** | **16.0530** | **0.0297** | **6.5523** | **1.2734** | **7.8258** | **3.3675** | **1.1716** | **4.5390** | | **2,872.4851** | **2,872.4851** | **0.9290** | | **2,895.7106** |

## 3.3 Grading - 2020

### 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 | 0.0623 | 0.0416 | 0.4009 | 1.1900e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 118.6698 | 118.6698 | 3.5700e-003 | | 118.7591 |
| **Total** | **0.0623** | **0.0416** | **0.4009** | **1.1900e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **118.6698** | **118.6698** | **3.5700e-003** | | **118.7591** |

### 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 | | | | | 6.5523 | 0.0000 | 6.5523 | 3.3675 | 0.0000 | 3.3675 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.4288 | 26.3859 | 16.0530 | 0.0297 | | 1.2734 | 1.2734 | | 1.1716 | 1.1716 | 0.0000 | 2,872.4851 | 2,872.4851 | 0.9290 | | 2,895.7106 |
| **Total** | **2.4288** | **26.3859** | **16.0530** | **0.0297** | **6.5523** | **1.2734** | **7.8258** | **3.3675** | **1.1716** | **4.5390** | **0.0000** | **2,872.4851** | **2,872.4851** | **0.9290** | | **2,895.7106** |

## 3.3 Grading - 2020

**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 | 0.0623 | 0.0416 | 0.4009 | 1.1900e-003 | 0.1232 | 8.6000e-004 | 0.1241 | 0.0327 | 8.0000e-004 | 0.0335 | | 118.6698 | 118.6698 | 3.5700e-003 | | 118.7591 |
| **Total** | **0.0623** | **0.0416** | **0.4009** | **1.1900e-003** | **0.1232** | **8.6000e-004** | **0.1241** | **0.0327** | **8.0000e-004** | **0.0335** | | **118.6698** | **118.6698** | **3.5700e-003** | | **118.7591** |

## 3.4 Building Construction - 2020

**Unmitigated Construction On-Site**

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## 3.4 Building Construction - 2020

### 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 | 0.1409 | 4.0560 | 1.1477 | 9.6100e-003 | 0.2437 | 0.0202 | 0.2639 | 0.0702 | 0.0194 | 0.0895 | | 1,031.2640 | 1,031.2640 | 0.0830 | | 1,033.3386 |
| Worker | 0.3824 | 0.2554 | 2.4587 | 7.3100e-003 | 0.7558 | 5.3000e-003 | 0.7611 | 0.2005 | 4.8900e-003 | 0.2054 | | 727.8414 | 727.8414 | 0.0219 | | 728.3892 |
| **Total** | **0.5233** | **4.3114** | **3.6064** | **0.0169** | **0.9995** | **0.0255** | **1.0250** | **0.2706** | **0.0243** | **0.2949** | | **1,759.1054** | **1,759.1054** | **0.1049** | | **1,761.7278** |

### Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 2.1198 | 19.1860 | 16.8485 | 0.0269 | | 1.1171 | 1.1171 | | 1.0503 | 1.0503 | 0.0000 | 2,553.0631 | 2,553.0631 | 0.6229 | | 2,568.6345 |
| **Total** | **2.1198** | **19.1860** | **16.8485** | **0.0269** | | **1.1171** | **1.1171** | | **1.0503** | **1.0503** | **0.0000** | **2,553.0631** | **2,553.0631** | **0.6229** | | **2,568.6345** |

## 3.4 Building Construction - 2020

**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 | 0.1409 | 4.0560 | 1.1477 | 9.6100e-003 | 0.2437 | 0.0202 | 0.2639 | 0.0702 | 0.0194 | 0.0895 | | 1,031.2640 | 1,031.2640 | 0.0830 | | 1,033.3386 |
| Worker | 0.3824 | 0.2554 | 2.4587 | 7.3100e-003 | 0.7558 | 5.3000e-003 | 0.7611 | 0.2005 | 4.8900e-003 | 0.2054 | | 727.8414 | 727.8414 | 0.0219 | | 728.3892 |
| **Total** | **0.5233** | **4.3114** | **3.6064** | **0.0169** | **0.9995** | **0.0255** | **1.0250** | **0.2706** | **0.0243** | **0.2949** | | **1,759.1054** | **1,759.1054** | **0.1049** | | **1,761.7278** |

## 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 | 0.1148 | 3.6561 | 1.0402 | 9.5000e-003 | 0.2437 | 8.0100e-003 | 0.2517 | 0.0702 | 7.6600e-003 | 0.0778 | | 1,021.7495 | 1,021.7495 | 0.0796 | | 1,023.7394 |
| Worker | 0.3609 | 0.2321 | 2.2938 | 7.0600e-003 | 0.7558 | 5.2200e-003 | 0.7610 | 0.2005 | 4.8100e-003 | 0.2053 | | 703.3838 | 703.3838 | 0.0202 | | 703.8890 |
| **Total** | **0.4756** | **3.8882** | **3.3340** | **0.0166** | **0.9995** | **0.0132** | **1.0127** | **0.2706** | **0.0125** | **0.2831** | | **1,725.1333** | **1,725.1333** | **0.0998** | | **1,727.6284** |

**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 | 0.1148 | 3.6561 | 1.0402 | 9.5000e-003 | 0.2437 | 8.0100e-003 | 0.2517 | 0.0702 | 7.6600e-003 | 0.0778 | | 1,021.7495 | 1,021.7495 | 0.0796 | | 1,023.7394 |
| Worker | 0.3609 | 0.2321 | 2.2938 | 7.0600e-003 | 0.7558 | 5.2200e-003 | 0.7610 | 0.2005 | 4.8100e-003 | 0.2053 | | 703.3838 | 703.3838 | 0.0202 | | 703.8890 |
| **Total** | **0.4756** | **3.8882** | **3.3340** | **0.0166** | **0.9995** | **0.0132** | **1.0127** | **0.2706** | **0.0125** | **0.2831** | | **1,725.1333** | **1,725.1333** | **0.0998** | | **1,727.6284** |

## 3.5 Paving - 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 | 1.0940 | 10.8399 | 12.2603 | 0.0189 | | 0.5788 | 0.5788 | | 0.5342 | 0.5342 | | 1,804.5523 | 1,804.5523 | 0.5670 | | 1,818.7270 |
| Paving | 0.4192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5132** | **10.8399** | **12.2603** | **0.0189** | | **0.5788** | **0.5788** | | **0.5342** | **0.5342** | | **1,804.5523** | **1,804.5523** | **0.5670** | | **1,818.7270** |

## 3.5 Paving - 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 | 0.0785 | 0.0505 | 0.4987 | 1.5300e-003 | 0.1643 | 1.1300e-003 | 0.1654 | 0.0436 | 1.0500e-003 | 0.0446 | | 152.9095 | 152.9095 | 4.3900e-003 | | 153.0193 |
| **Total** | **0.0785** | **0.0505** | **0.4987** | **1.5300e-003** | **0.1643** | **1.1300e-003** | **0.1654** | **0.0436** | **1.0500e-003** | **0.0446** | | **152.9095** | **152.9095** | **4.3900e-003** | | **153.0193** |

### 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 | 1.0940 | 10.8399 | 12.2603 | 0.0189 | | 0.5788 | 0.5788 | | 0.5342 | 0.5342 | 0.0000 | 1,804.5523 | 1,804.5523 | 0.5670 | | 1,818.7270 |
| Paving | 0.4192 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| **Total** | **1.5132** | **10.8399** | **12.2603** | **0.0189** | | **0.5788** | **0.5788** | | **0.5342** | **0.5342** | **0.0000** | **1,804.5523** | **1,804.5523** | **0.5670** | | **1,818.7270** |

## 3.5 Paving - 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 | 0.0785 | 0.0505 | 0.4987 | 1.5300e-003 | 0.1643 | 1.1300e-003 | 0.1654 | 0.0436 | 1.0500e-003 | 0.0446 | | 152.9095 | 152.9095 | 4.3900e-003 | | 153.0193 |
| **Total** | **0.0785** | **0.0505** | **0.4987** | **1.5300e-003** | **0.1643** | **1.1300e-003** | **0.1654** | **0.0436** | **1.0500e-003** | **0.0446** | | **152.9095** | **152.9095** | **4.3900e-003** | | **153.0193** |

## 3.6 Architectural Coating - 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 | | | | | |
| Archit. Coating | 350.4628 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **350.6817** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0706 | 0.0454 | 0.4488 | 1.3800e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 137.6186 | 137.6186 | 3.9500e-003 | | 137.7174 |
| **Total** | **0.0706** | **0.0454** | **0.4488** | **1.3800e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **137.6186** | **137.6186** | **3.9500e-003** | | **137.7174** |

**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 | 350.4628 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.2189 | 1.5268 | 1.8176 | 2.9700e-003 | | 0.0941 | 0.0941 | | 0.0941 | 0.0941 | 0.0000 | 281.4481 | 281.4481 | 0.0193 | | 281.9309 |
| **Total** | **350.6817** | **1.5268** | **1.8176** | **2.9700e-003** | | **0.0941** | **0.0941** | | **0.0941** | **0.0941** | **0.0000** | **281.4481** | **281.4481** | **0.0193** | | **281.9309** |

## 3.6 Architectural Coating - 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 | 0.0706 | 0.0454 | 0.4488 | 1.3800e-003 | 0.1479 | 1.0200e-003 | 0.1489 | 0.0392 | 9.4000e-004 | 0.0402 | | 137.6186 | 137.6186 | 3.9500e-003 | | 137.7174 |
| **Total** | **0.0706** | **0.0454** | **0.4488** | **1.3800e-003** | **0.1479** | **1.0200e-003** | **0.1489** | **0.0392** | **9.4000e-004** | **0.0402** | | **137.6186** | **137.6186** | **3.9500e-003** | | **137.7174** |

# 4.0 Operational Detail - Mobile

## 4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 0.3436 | 1.3900 | 3.8679 | 0.0145 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,484.2317 | 1,484.2317 | 0.0750 | | 1,486.1073 |
| Unmitigated | 0.3436 | 1.3900 | 3.8679 | 0.0145 | 1.5526 | 0.0112 | 1.5638 | 0.4148 | 0.0104 | 0.4252 | | 1,484.2317 | 1,484.2317 | 0.0750 | | 1,486.1073 |

## 4.2 Trip Summary Information

| | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|---|---|---|---|---|---|
| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 6.00 | 6.00 | 6.00 | 14,001 | 14,001 |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Unrefrigerated Warehouse-No Rail | 293.06 | 293.06 | 293.06 | 718,508 | 718,508 |
| Total | 299.06 | 299.06 | 299.06 | 732,509 | 732,509 |

## 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 |
| Apartments Low Rise | 7.22 | 7.22 | 7.22 | 41.60 | 18.80 | 39.60 | 86 | 11 | 3 |
| Other Asphalt Surfaces | 7.22 | 7.22 | 7.22 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Unrefrigerated Warehouse-No | 7.22 | 7.22 | 7.22 | 59.00 | 0.00 | 41.00 | 92 | 5 | 3 |

## 4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Apartments Low Rise | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Other Asphalt Surfaces | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |
| Unrefrigerated Warehouse-No Rail | 0.613162 | 0.038013 | 0.177872 | 0.099323 | 0.012979 | 0.005313 | 0.017297 | 0.024998 | 0.001928 | 0.001754 | 0.005717 | 0.000774 | 0.000870 |

## 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 | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |
| NaturalGas Unmitigated | 7.5600e-003 | 0.0686 | 0.0564 | 4.1000e-004 | | 5.2200e-003 | 5.2200e-003 | | 5.2200e-003 | 5.2200e-003 | | 82.4907 | 82.4907 | 1.5800e-003 | 1.5100e-003 | 82.9809 |

## 5.2 Energy by Land Use - NaturalGas

**Unmitigated**

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Apartments Low Rise | 30.7548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 670.416 | 7.2300e-003 | 0.0657 | 0.0552 | 3.9000e-004 | | 5.0000e-003 | 5.0000e-003 | | 5.0000e-003 | 5.0000e-003 | | 78.8724 | 78.8724 | 1.5100e-003 | 1.4500e-003 | 79.3411 |
| **Total** | | **7.5600e-003** | **0.0686** | **0.0564** | **4.1000e-004** | | **5.2300e-003** | **5.2300e-003** | | **5.2300e-003** | **5.2300e-003** | | **82.4907** | **82.4907** | **1.5800e-003** | **1.5200e-003** | **82.9809** |

**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 | | | | | |
| Apartments Low Rise | 0.0307548 | 3.3000e-004 | 2.8300e-003 | 1.2100e-003 | 2.0000e-005 | | 2.3000e-004 | 2.3000e-004 | | 2.3000e-004 | 2.3000e-004 | | 3.6182 | 3.6182 | 7.0000e-005 | 7.0000e-005 | 3.6397 |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Unrefrigerated Warehouse-No Rail | 0.670416 | 7.2300e-003 | 0.0657 | 0.0552 | 3.9000e-004 | | 5.0000e-003 | 5.0000e-003 | | 5.0000e-003 | 5.0000e-003 | | 78.8724 | 78.8724 | 1.5100e-003 | 1.4500e-003 | 79.3411 |
| **Total** | | **7.5600e-003** | **0.0686** | **0.0564** | **4.1000e-004** | | **5.2300e-003** | **5.2300e-003** | | **5.2300e-003** | **5.2300e-003** | | **82.4907** | **82.4907** | **1.5800e-003** | **1.5200e-003** | **82.9809** |

# 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 | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |
| Unmitigated | 3.6370 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | 0.0000 | 0.1810 | 0.1810 | 2.3000e-004 | 0.0000 | 0.1866 |

## 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 | 0.4314 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.2017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8600e-003 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1810 | 0.1810 | 2.3000e-004 | | 0.1866 |
| **Total** | **3.6370** | **1.0900e-003** | **0.0975** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1810** | **0.1810** | **2.3000e-004** | **0.0000** | **0.1866** |

### 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 | 0.4314 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.2017 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 3.8600e-003 | 1.0900e-003 | 0.0975 | 1.0000e-005 | | 5.1000e-004 | 5.1000e-004 | | 5.1000e-004 | 5.1000e-004 | | 0.1810 | 0.1810 | 2.3000e-004 | | 0.1866 |
| **Total** | **3.6370** | **1.0900e-003** | **0.0975** | **1.0000e-005** | | **5.1000e-004** | **5.1000e-004** | | **5.1000e-004** | **5.1000e-004** | **0.0000** | **0.1810** | **0.1810** | **2.3000e-004** | **0.0000** | **0.1866** |

## 7.0 Water Detail

### 7.1 Mitigation Measures Water

## 8.0 Waste Detail

### 8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

## 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