

LOWE; West Alton Parcel
Orange County, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 790.00 | Space | 1.00 | 316,000.00 | 0 |
| Other Asphalt Surfaces | 460.00 | 1000sqft | 10.56 | 460,000.00 | 0 |
| City Park | 3.72 | Acre | 2.32 | 162,043.20 | 0 |
| Apartments Low Rise | 230.00 | Dwelling Unit | 4.92 | 239,572.00 | 458 |
| Apartments Mid Rise | 573.00 | Dwelling Unit | 13.50 | 537,157.00 | 1077 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2022 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 473.3 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

- Project Characteristics - Updated CO2 IF for 2022
- Land Use - data needs and PD. Pop based on pop/housing section
- Construction Phase - Per updated excel sheet (comments 3/2/16) and 9/21/16
- Off-road Equipment - 2 air compressors
- Off-road Equipment - 2 cranes, 4 forklifts, 4 generator sets, 4 tractors, 2 welders, 1 grader, 1 dozer
- Off-road Equipment - 1 excavator, 2 TLBs, 1 crushing equipment
- Off-road Equipment - 1 excavator, 2 graders, 2 dozers, 2 scapers, 2 tractors

Off-road Equipment - 2 dozers, 3 tractors

Off-road Equipment - 1 excavator, 3 tractors, 1 paver, 1 roller

Off-road Equipment - 1 paver, 1 roller, 1 excavator, 3 tractors

Trips and VMT - Defaults- Building trips reduced. SP/Grading numbers are calc'ed,

On-road Fugitive Dust - Defaults

Demolition - Per data to demo roads

Grading - 4,000 cy exported for site prep; 20,000 cy exported from grading (9/21/16)

Architectural Coating - only 25 percent of exteriors will be painted (131,073 sf). No Non-res interior sf to be painted, and painting for lines is estimated at 50,000

Vehicle Trips - defaults for city park. Apartment trip gen from traffic report. 6.18-weekday, 6.715- saturday. 5.692 sunday

Woodstoves - 9 gas fireplaces total

Area Coating - 25% of exteriors (131,073 sf for res ext), res interior= defaults. non-res ext: estimated at 50,000 for painting lines, etc. no non-res interior

Energy Use - Defaults

Water And Wastewater - total indoor water use: 34,310,000

total outdoor water use: 22,408,445

Sequestration -

Construction Off-road Equipment Mitigation - All Tier 3 for Construction equip

Mobile Land Use Mitigation - BMR housing VMT reduction to be calculated manually per SCAQMD

Area Mitigation -

Energy Mitigation - Meeting Title 24 2016 reqs; energy star appliances; onsite renewable, 1,592,550 kwh generated

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 469,022.00 | 50,000.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,407,065.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 524,292.00 | 131,073.00 |
| tblAreaCoating | Area_Nonresidential_Interior | 1407065 | 0 |
| tblAreaCoating | Area_Residential_Exterior | 524292 | 131073 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |

| | | | |
|-------------------------|----------------------------|-----------|--------|
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 35.00 | 458.00 |
| tblConstructionPhase | NumDays | 500.00 | 698.00 |
| tblConstructionPhase | NumDays | 30.00 | 10.00 |
| tblConstructionPhase | NumDays | 45.00 | 107.00 |
| tblConstructionPhase | NumDays | 35.00 | 86.00 |

| | | | |
|----------------------|----------------------------|------------|------------|
| tblConstructionPhase | NumDays | 20.00 | 66.00 |
| tblConstructionPhase | PhaseEndDate | 10/4/2023 | 12/31/2021 |
| tblConstructionPhase | PhaseEndDate | 3/2/2022 | 12/31/2021 |
| tblConstructionPhase | PhaseEndDate | 5/29/2019 | 4/30/2019 |
| tblConstructionPhase | PhaseEndDate | 8/28/2019 | 6/28/2019 |
| tblConstructionPhase | PhaseEndDate | 1/14/2019 | 12/31/2018 |
| tblConstructionPhase | PhaseStartDate | 1/1/2022 | 4/1/2020 |
| tblConstructionPhase | PhaseStartDate | 6/29/2019 | 5/1/2019 |
| tblConstructionPhase | PhaseStartDate | 1/1/2019 | 12/1/2018 |
| tblConstructionPhase | PhaseStartDate | 5/1/2019 | 3/1/2019 |
| tblConstructionPhase | PhaseStartDate | 10/13/2018 | 10/1/2018 |
| tblFireplaces | NumberGas | 195.50 | 9.00 |
| tblFireplaces | NumberGas | 487.05 | 0.00 |
| tblFireplaces | NumberNoFireplace | 23.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 57.30 | 0.00 |
| tblFireplaces | NumberWood | 11.50 | 0.00 |
| tblFireplaces | NumberWood | 28.65 | 0.00 |
| tblGrading | AcresOfGrading | 321.00 | 112.50 |
| tblGrading | MaterialExported | 0.00 | 20,000.00 |
| tblGrading | MaterialExported | 0.00 | 4,000.00 |
| tblLandUse | LandUseSquareFeet | 230,000.00 | 239,572.00 |
| tblLandUse | LandUseSquareFeet | 573,000.00 | 537,157.00 |
| tblLandUse | LotAcreage | 7.11 | 1.00 |
| tblLandUse | LotAcreage | 3.72 | 2.32 |
| tblLandUse | LotAcreage | 14.38 | 4.92 |
| tblLandUse | LotAcreage | 15.08 | 13.50 |
| tblLandUse | Population | 658.00 | 458.00 |
| tblLandUse | Population | 1,639.00 | 1,077.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |

| | | | |
|---------------------------|----------------------------|---------------|---------------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 630.89 | 473.3 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2022 |
| tblTripsAndVMT | HaulingTripNumber | 356.00 | 360.00 |
| tblTripsAndVMT | WorkerTripNumber | 972.00 | 400.00 |
| tblVehicleTrips | ST_TR | 7.16 | 6.71 |
| tblVehicleTrips | ST_TR | 7.16 | 6.71 |
| tblVehicleTrips | ST_TR | 1.59 | 0.00 |
| tblVehicleTrips | SU_TR | 6.07 | 5.96 |
| tblVehicleTrips | SU_TR | 6.07 | 5.69 |
| tblVehicleTrips | SU_TR | 1.59 | 0.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.18 |
| tblVehicleTrips | WD_TR | 6.59 | 6.18 |
| tblVehicleTrips | WD_TR | 1.59 | 0.00 |
| tblWater | IndoorWaterUseRate | 14,985,425.89 | 0.00 |
| tblWater | IndoorWaterUseRate | 37,333,256.68 | 34,310,000.00 |
| tblWater | OutdoorWaterUseRate | 9,447,333.72 | 0.00 |
| tblWater | OutdoorWaterUseRate | 23,536,183.56 | 22,408,445.00 |

| | | | |
|---------------|---------------------|--------------|------|
| tblWater | OutdoorWaterUseRate | 4,432,310.62 | 0.00 |
| tblWoodstoves | NumberCatalytic | 11.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 28.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 11.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 28.65 | 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 | | | | | |
| 2018 | 10.5083 | 115.3014 | 85.7114 | 0.1259 | 27.4379 | 5.4006 | 32.8385 | 13.9304 | 4.9685 | 18.8989 | | | 12,503.6432 | 3.1253 | 0.0000 | 12,569.2746 |
| 2019 | 11.2278 | 91.4068 | 103.3839 | 0.1979 | 14.0877 | 4.5197 | 18.3774 | 6.9867 | 4.2466 | 10.9333 | | | 17,915.8273 | 2.9525 | 0.0000 | 17,977.8298 |
| 2020 | 20.1384 | 73.2215 | 95.5563 | 0.2051 | 8.1398 | 3.4349 | 11.5747 | 2.1881 | 3.2549 | 5.4430 | | | 17,621.5867 | 1.7765 | 0.0000 | 17,658.8927 |
| 2021 | 19.3687 | 65.4778 | 92.5959 | 0.2052 | 8.1399 | 2.9852 | 11.1251 | 2.1882 | 2.8273 | 5.0155 | | | 17,526.9564 | 1.7412 | 0.0000 | 17,563.5205 |
| Total | 61.2432 | 345.4075 | 377.2475 | 0.7341 | 57.8053 | 16.3404 | 73.9158 | 25.2934 | 15.2973 | 40.2907 | | | 65,568.0136 | 9.5954 | 0.0000 | 65,769.5175 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.8326 | 44.1913 | 60.9771 | 0.1259 | 13.5607 | 1.7402 | 15.3009 | 6.5794 | 1.7886 | 8.3679 | | | 12,503.6432 | 3.1253 | 0.0000 | 12,569.2746 |
| 2019 | 5.5097 | 63.5193 | 102.9083 | 0.1979 | 6.8385 | 3.0641 | 9.2030 | 3.2775 | 3.0409 | 5.3230 | | | 17,915.8273 | 2.9525 | 0.0000 | 17,977.8297 |
| 2020 | 15.5284 | 53.2046 | 94.8476 | 0.2051 | 8.1398 | 2.5378 | 10.6777 | 2.1881 | 2.5211 | 4.7092 | | | 17,621.5867 | 1.7765 | 0.0000 | 17,658.8927 |
| 2021 | 15.4029 | 51.1010 | 93.2066 | 0.2052 | 8.1399 | 2.5198 | 10.6597 | 2.1882 | 2.5045 | 4.6927 | | | 17,526.9564 | 1.7412 | 0.0000 | 17,563.5205 |
| Total | 38.2737 | 212.0162 | 351.9396 | 0.7341 | 36.6789 | 9.8619 | 45.8413 | 14.2331 | 9.8551 | 23.0928 | | | 65,568.0136 | 9.5954 | 0.0000 | 65,769.5175 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------|--------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 37.51 | 38.62 | 6.71 | 0.00 | 36.55 | 39.65 | 37.98 | 43.73 | 35.58 | 42.68 | 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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Energy | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |
| Mobile | 13.7429 | 29.2820 | 144.6952 | 0.5233 | 38.9176 | 0.5302 | 39.4477 | 10.3856 | 0.4896 | 10.8752 | | | 38,960.9685 | 1.3528 | | 38,989.3773 |
| Total | 52.6027 | 31.9340 | 211.9467 | 0.5388 | 38.9176 | 1.0616 | 39.9792 | 10.3856 | 1.0209 | 11.4065 | | | 41,678.6836 | 1.5184 | 0.0476 | 41,725.3363 |

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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Energy | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |
| Mobile | 13.7429 | 29.2820 | 144.6952 | 0.5233 | 38.9176 | 0.5302 | 39.4477 | 10.3856 | 0.4896 | 10.8752 | | | 38,960.9685 | 1.3528 | | 38,989.3773 |
| Total | 52.5220 | 31.2438 | 211.6530 | 0.5344 | 38.9176 | 1.0058 | 39.9234 | 10.3856 | 0.9651 | 11.3507 | | | 40,797.5883 | 1.5015 | 0.0315 | 40,838.8789 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|------|
| Percent Reduction | 0.15 | 2.16 | 0.14 | 0.82 | 0.00 | 5.26 | 0.14 | 0.00 | 5.47 | 0.49 | 0.00 | 0.00 | 2.11 | 1.11 | 33.91 | 2.12 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|--------------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 10/1/2018 | 10/12/2018 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 10/1/2018 | 12/31/2018 | 5 | 66 | |
| 3 | Grading | Grading | 12/1/2018 | 4/30/2019 | 5 | 107 | |
| 4 | Underground Infra/Paving | Paving | 3/1/2019 | 6/28/2019 | 5 | 86 | |
| 5 | Building | Building Construction | 5/1/2019 | 12/31/2021 | 5 | 698 | |
| 6 | Architectural Coating | Architectural Coating | 4/1/2020 | 12/31/2021 | 5 | 458 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 1,572,876; Residential Outdoor: 131,073; Non-Residential Indoor: 0; Non-Residential Outdoor: 50,000 (Architectural

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|--------------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Crushing/Proc. Equipment | 1 | 8.00 | 85 | 0.78 |
| Demolition | Excavators | 1 | 8.00 | 162 | 0.38 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 162 | 0.38 |
| Grading | Graders | 2 | 8.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 361 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Underground Infra/Paving | Excavators | 1 | 8.00 | 162 | 0.38 |
| Underground Infra/Paving | Pavers | 1 | 8.00 | 125 | 0.42 |

| | | | | | |
|--------------------------|---------------------------|---|------|-----|------|
| Underground Infra/Paving | Paving Equipment | 0 | 8.00 | 130 | 0.36 |
| Underground Infra/Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Underground Infra/Paving | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building | Cranes | 2 | 7.00 | 226 | 0.29 |
| Building | Forklifts | 4 | 8.00 | 89 | 0.20 |
| Building | Generator Sets | 4 | 8.00 | 84 | 0.74 |
| Building | Graders | 1 | 8.00 | 174 | 0.41 |
| Building | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 2 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|--------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 4 | 10.00 | 0.00 | 360.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 5 | 13.00 | 0.00 | 500.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 9 | 23.00 | 0.00 | 2,500.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Underground Infra/Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building | 18 | 400.00 | 240.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 2 | 194.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.7036 | 0.0000 | 7.7036 | 1.1664 | 0.0000 | 1.1664 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5069 | 12.9719 | 12.4322 | 0.0185 | | 0.8586 | 0.8586 | | 0.8165 | 0.8165 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |
| Total | 1.5069 | 12.9719 | 12.4322 | 0.0185 | 7.7036 | 0.8586 | 8.5623 | 1.1664 | 0.8165 | 1.9829 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |

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 | 0.6377 | 8.7331 | 7.7401 | 0.0264 | 0.6273 | 0.1368 | 0.7640 | 0.1718 | 0.1258 | 0.2976 | | | 2,574.7237 | 0.0191 | | 2,575.1252 |
| 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 |
| Worker | 0.0303 | 0.0408 | 0.4294 | 1.2800e-003 | 0.1118 | 7.5000e-004 | 0.1125 | 0.0296 | 7.0000e-004 | 0.0303 | | | 99.4226 | 4.6200e-003 | | 99.5196 |
| Total | 0.6680 | 8.7739 | 8.1694 | 0.0277 | 0.7391 | 0.1375 | 0.8766 | 0.2014 | 0.1265 | 0.3279 | | | 2,674.1462 | 0.0237 | | 2,674.6448 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.4666 | 0.0000 | 3.4666 | 0.5249 | 0.0000 | 0.5249 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4796 | 9.4603 | 13.0263 | 0.0185 | | 0.6086 | 0.6086 | | 0.6041 | 0.6041 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |
| Total | 0.4796 | 9.4603 | 13.0263 | 0.0185 | 3.4666 | 0.6086 | 4.0753 | 0.5249 | 0.6041 | 1.1290 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |

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 | 0.6377 | 8.7331 | 7.7401 | 0.0264 | 0.6273 | 0.1368 | 0.7640 | 0.1718 | 0.1258 | 0.2976 | | | 2,574.7237 | 0.0191 | | 2,575.1252 |
| 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 |
| Worker | 0.0303 | 0.0408 | 0.4294 | 1.2800e-003 | 0.1118 | 7.5000e-004 | 0.1125 | 0.0296 | 7.0000e-004 | 0.0303 | | | 99.4226 | 4.6200e-003 | | 99.5196 |
| Total | 0.6680 | 8.7739 | 8.1694 | 0.0277 | 0.7391 | 0.1375 | 0.8766 | 0.2014 | 0.1265 | 0.3279 | | | 2,674.1462 | 0.0237 | | 2,674.6448 |

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 12.0510 | 0.0000 | 12.0510 | 6.6215 | 0.0000 | 6.6215 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.9501 | 31.2824 | 24.9353 | 0.0271 | | 1.6390 | 1.6390 | | 1.5079 | 1.5079 | | | 2,730.7741 | 0.8501 | | 2,748.6268 |
| Total | 2.9501 | 31.2824 | 24.9353 | 0.0271 | 12.0510 | 1.6390 | 13.6901 | 6.6215 | 1.5079 | 8.1294 | | | 2,730.7741 | 0.8501 | | 2,748.6268 |

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 | 0.1342 | 1.8378 | 1.6288 | 5.5500e-003 | 0.1320 | 0.0288 | 0.1608 | 0.0362 | 0.0265 | 0.0626 | | | 541.8190 | 4.0200e-003 | | 541.9035 |
| 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 |
| Worker | 0.0393 | 0.0531 | 0.5582 | 1.6700e-003 | 0.1453 | 9.8000e-004 | 0.1463 | 0.0385 | 9.1000e-004 | 0.0395 | | | 129.2493 | 6.0100e-003 | | 129.3755 |
| Total | 0.1735 | 1.8909 | 2.1870 | 7.2200e-003 | 0.2773 | 0.0298 | 0.3071 | 0.0747 | 0.0274 | 0.1021 | | | 671.0683 | 0.0100 | | 671.2789 |

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 | | | | | 5.4230 | 0.0000 | 5.4230 | 2.9797 | 0.0000 | 2.9797 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0572 | 7.9349 | 12.9503 | 0.0271 | | 0.4050 | 0.4050 | | 0.4328 | 0.4328 | | | 2,730.7741 | 0.8501 | | 2,748.6267 |
| Total | 0.0572 | 7.9349 | 12.9503 | 0.0271 | 5.4230 | 0.4050 | 5.8279 | 2.9797 | 0.4328 | 3.4125 | | | 2,730.7741 | 0.8501 | | 2,748.6267 |

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 | 0.1342 | 1.8378 | 1.6288 | 5.5500e-003 | 0.1320 | 0.0288 | 0.1608 | 0.0362 | 0.0265 | 0.0626 | | | 541.8190 | 4.0200e-003 | | 541.9035 |
| 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 |
| Worker | 0.0393 | 0.0531 | 0.5582 | 1.6700e-003 | 0.1453 | 9.8000e-004 | 0.1463 | 0.0385 | 9.1000e-004 | 0.0395 | | | 129.2493 | 6.0100e-003 | | 129.3755 |
| Total | 0.1735 | 1.8909 | 2.1870 | 7.2200e-003 | 0.2773 | 0.0298 | 0.3071 | 0.0747 | 0.0274 | 0.1021 | | | 671.0683 | 0.0100 | | 671.2789 |

3.4 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.1803 | 0.0000 | 13.1803 | 6.7441 | 0.0000 | 6.7441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.9011 | 76.3663 | 52.5783 | 0.0715 | | 3.6413 | 3.6413 | | 3.3500 | 3.3500 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |
| Total | 6.9011 | 76.3663 | 52.5783 | 0.0715 | 13.1803 | 3.6413 | 16.8216 | 6.7441 | 3.3500 | 10.0941 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |

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 | 0.4139 | 5.6679 | 5.0234 | 0.0171 | 1.6722 | 0.0888 | 1.7609 | 0.4220 | 0.0816 | 0.5036 | | | 1,671.0304 | 0.0124 | | 1,671.2910 |
| 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 |
| Worker | 0.0696 | 0.0939 | 0.9875 | 2.9500e-003 | 0.2571 | 1.7400e-003 | 0.2588 | 0.0682 | 1.6100e-003 | 0.0698 | | | 228.6719 | 0.0106 | | 228.8951 |
| Total | 0.4835 | 5.7618 | 6.0109 | 0.0201 | 1.9293 | 0.0905 | 2.0197 | 0.4902 | 0.0833 | 0.5734 | | | 1,899.7023 | 0.0230 | | 1,900.1861 |

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 | | | | | 5.9312 | 0.0000 | 5.9312 | 3.0348 | 0.0000 | 3.0348 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1184 | 28.6037 | 39.8290 | 0.0715 | | 1.2150 | 1.2150 | | 1.2451 | 1.2451 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |
| Total | 1.1184 | 28.6037 | 39.8290 | 0.0715 | 5.9312 | 1.2150 | 7.1462 | 3.0348 | 1.2451 | 4.2800 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |

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 | 0.4139 | 5.6679 | 5.0234 | 0.0171 | 1.6722 | 0.0888 | 1.7609 | 0.4220 | 0.0816 | 0.5036 | | | 1,671.0304 | 0.0124 | | 1,671.2910 |
| 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 |
| Worker | 0.0696 | 0.0939 | 0.9875 | 2.9500e-003 | 0.2571 | 1.7400e-003 | 0.2588 | 0.0682 | 1.6100e-003 | 0.0698 | | | 228.6719 | 0.0106 | | 228.8951 |
| Total | 0.4835 | 5.7618 | 6.0109 | 0.0201 | 1.9293 | 0.0905 | 2.0197 | 0.4902 | 0.0833 | 0.5734 | | | 1,899.7023 | 0.0230 | | 1,900.1861 |

3.4 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.1803 | 0.0000 | 13.1803 | 6.7441 | 0.0000 | 6.7441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.4191 | 70.0661 | 50.0756 | 0.0715 | | 3.3045 | 3.3045 | | 3.0401 | 3.0401 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |
| Total | 6.4191 | 70.0661 | 50.0756 | 0.0715 | 13.1803 | 3.3045 | 16.4848 | 6.7441 | 3.0401 | 9.7842 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |

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 | 0.3998 | 5.3342 | 4.8750 | 0.0172 | 0.4826 | 0.0872 | 0.5698 | 0.1300 | 0.0802 | 0.2102 | | | 1,647.4689 | 0.0127 | | 1,647.7357 |
| 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 |
| Worker | 0.0651 | 0.0870 | 0.9195 | 2.9700e-003 | 0.2571 | 1.7500e-003 | 0.2588 | 0.0682 | 1.6200e-003 | 0.0698 | | | 221.5281 | 0.0102 | | 221.7412 |
| Total | 0.4649 | 5.4212 | 5.7944 | 0.0201 | 0.7397 | 0.0890 | 0.8286 | 0.1982 | 0.0819 | 0.2800 | | | 1,868.9970 | 0.0229 | | 1,869.4769 |

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 | | | | | 5.9312 | 0.0000 | 5.9312 | 3.0348 | 0.0000 | 3.0348 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1458 | 29.0320 | 40.1627 | 0.0715 | | 1.2310 | 1.2310 | | 1.2598 | 1.2598 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |
| Total | 1.1458 | 29.0320 | 40.1627 | 0.0715 | 5.9312 | 1.2310 | 7.1622 | 3.0348 | 1.2598 | 4.2946 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |

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 | 0.3998 | 5.3342 | 4.8750 | 0.0172 | 0.4826 | 0.0872 | 0.5698 | 0.1300 | 0.0802 | 0.2102 | | | 1,647.4689 | 0.0127 | | 1,647.7357 |
| 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 |
| Worker | 0.0651 | 0.0870 | 0.9195 | 2.9700e-003 | 0.2571 | 1.7500e-003 | 0.2588 | 0.0682 | 1.6200e-003 | 0.0698 | | | 221.5281 | 0.0102 | | 221.7412 |
| Total | 0.4649 | 5.4212 | 5.7944 | 0.0201 | 0.7397 | 0.0890 | 0.8286 | 0.1982 | 0.0819 | 0.2800 | | | 1,868.9970 | 0.0229 | | 1,869.4769 |

3.5 Underground Infra/Paving - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4690 | 15.0072 | 14.9512 | 0.0218 | | 0.8952 | 0.8952 | | 0.8236 | 0.8236 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |
| Paving | 0.3217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.7907 | 15.0072 | 14.9512 | 0.0218 | | 0.8952 | 0.8952 | | 0.8236 | 0.8236 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |

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 |
| 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 |
| Worker | 0.0424 | 0.0568 | 0.5997 | 1.9300e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 144.4749 | 6.6200e-003 | | 144.6138 |
| Total | 0.0424 | 0.0568 | 0.5997 | 1.9300e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 144.4749 | 6.6200e-003 | | 144.6138 |

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 | 0.6042 | 11.6107 | 16.4355 | 0.0218 | | 0.7084 | 0.7084 | | 0.7028 | 0.7028 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |
| Paving | 0.3217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9259 | 11.6107 | 16.4355 | 0.0218 | | 0.7084 | 0.7084 | | 0.7028 | 0.7028 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |

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 |
| 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 |
| Worker | 0.0424 | 0.0568 | 0.5997 | 1.9300e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 144.4749 | 6.6200e-003 | | 144.6138 |
| Total | 0.0424 | 0.0568 | 0.5997 | 1.9300e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 144.4749 | 6.6200e-003 | | 144.6138 |

3.6 Building - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 6.4019 | 58.3940 | 46.2682 | 0.0712 | | 3.3324 | 3.3324 | | 3.1540 | 3.1540 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |
| Total | 6.4019 | 58.3940 | 46.2682 | 0.0712 | | 3.3324 | 3.3324 | | 3.1540 | 3.1540 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |

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 |
| Vendor | 1.8615 | 16.4350 | 25.5743 | 0.0515 | 1.5002 | 0.2606 | 1.7608 | 0.4273 | 0.2397 | 0.6670 | | | 4,921.0042 | 0.0370 | | 4,921.7817 |
| Worker | 1.1314 | 1.5138 | 15.9906 | 0.0516 | 4.4711 | 0.0304 | 4.5015 | 1.1858 | 0.0282 | 1.2140 | | | 3,852.6630 | 0.1764 | | 3,856.3681 |
| Total | 2.9928 | 17.9488 | 41.5649 | 0.1031 | 5.9713 | 0.2910 | 6.2623 | 1.6130 | 0.2679 | 1.8809 | | | 8,773.6672 | 0.2135 | | 8,778.1498 |

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 | 1.5485 | 33.9029 | 44.3083 | 0.0712 | | 2.0635 | 2.0635 | | 2.0692 | 2.0692 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |
| Total | 1.5485 | 33.9029 | 44.3083 | 0.0712 | | 2.0635 | 2.0635 | | 2.0692 | 2.0692 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |

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 |
| Vendor | 1.8615 | 16.4350 | 25.5743 | 0.0515 | 1.5002 | 0.2606 | 1.7608 | 0.4273 | 0.2397 | 0.6670 | | | 4,921.0042 | 0.0370 | | 4,921.7817 |
| Worker | 1.1314 | 1.5138 | 15.9906 | 0.0516 | 4.4711 | 0.0304 | 4.5015 | 1.1858 | 0.0282 | 1.2140 | | | 3,852.6630 | 0.1764 | | 3,856.3681 |
| Total | 2.9928 | 17.9488 | 41.5649 | 0.1031 | 5.9713 | 0.2910 | 6.2623 | 1.6130 | 0.2679 | 1.8809 | | | 8,773.6672 | 0.2135 | | 8,778.1498 |

3.6 Building - 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 | 5.8008 | 53.4154 | 45.1859 | 0.0712 | | 2.9297 | 2.9297 | | 2.7720 | 2.7720 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |
| Total | 5.8008 | 53.4154 | 45.1859 | 0.0712 | | 2.9297 | 2.9297 | | 2.7720 | 2.7720 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |

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 |
| Vendor | 1.7137 | 14.3398 | 24.4438 | 0.0514 | 1.5003 | 0.2380 | 1.7383 | 0.4273 | 0.2189 | 0.6462 | | | 4,809.2345 | 0.0363 | | 4,809.9977 |
| Worker | 1.0702 | 1.4132 | 14.9924 | 0.0516 | 4.4711 | 0.0306 | 4.5016 | 1.1858 | 0.0284 | 1.2141 | | | 3,698.3508 | 0.1681 | | 3,701.8807 |
| Total | 2.7839 | 15.7530 | 39.4362 | 0.1030 | 5.9714 | 0.2685 | 6.2399 | 1.6131 | 0.2473 | 1.8603 | | | 8,507.5853 | 0.2044 | | 8,511.8784 |

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 | 1.5563 | 34.0522 | 44.4753 | 0.0712 | | 2.0643 | 2.0643 | | 2.0699 | 2.0699 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |
| Total | 1.5563 | 34.0522 | 44.4753 | 0.0712 | | 2.0643 | 2.0643 | | 2.0699 | 2.0699 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |

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 |
| Vendor | 1.7137 | 14.3398 | 24.4438 | 0.0514 | 1.5003 | 0.2380 | 1.7383 | 0.4273 | 0.2189 | 0.6462 | | | 4,809.2345 | 0.0363 | | 4,809.9977 |
| Worker | 1.0702 | 1.4132 | 14.9924 | 0.0516 | 4.4711 | 0.0306 | 4.5016 | 1.1858 | 0.0284 | 1.2141 | | | 3,698.3508 | 0.1681 | | 3,701.8807 |
| Total | 2.7839 | 15.7530 | 39.4362 | 0.1030 | 5.9714 | 0.2685 | 6.2399 | 1.6131 | 0.2473 | 1.8603 | | | 8,507.5853 | 0.2044 | | 8,511.8784 |

3.6 Building - 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 | 5.2146 | 48.2815 | 44.0839 | 0.0712 | | 2.5351 | 2.5351 | | 2.3978 | 2.3978 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |
| Total | 5.2146 | 48.2815 | 44.0839 | 0.0712 | | 2.5351 | 2.5351 | | 2.3978 | 2.3978 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |

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 |
| Vendor | 1.6543 | 12.1716 | 23.8715 | 0.0514 | 1.5004 | 0.2161 | 1.7165 | 0.4273 | 0.1988 | 0.6262 | | | 4,805.1827 | 0.0366 | | 4,805.9513 |
| Worker | 1.0180 | 1.3273 | 14.1450 | 0.0516 | 4.4711 | 0.0309 | 4.5019 | 1.1858 | 0.0286 | 1.2144 | | | 3,637.3894 | 0.1613 | | 3,640.7757 |
| Total | 2.6723 | 13.4989 | 38.0166 | 0.1030 | 5.9715 | 0.2470 | 6.2184 | 1.6131 | 0.2274 | 1.8405 | | | 8,442.5721 | 0.1979 | | 8,446.7270 |

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 | 1.5677 | 34.2445 | 44.6649 | 0.0712 | | 2.0677 | 2.0677 | | 2.0730 | 2.0730 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |
| Total | 1.5677 | 34.2445 | 44.6649 | 0.0712 | | 2.0677 | 2.0677 | | 2.0730 | 2.0730 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |

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 |
| Vendor | 1.6543 | 12.1716 | 23.8715 | 0.0514 | 1.5004 | 0.2161 | 1.7165 | 0.4273 | 0.1988 | 0.6262 | | | 4,805.1827 | 0.0366 | | 4,805.9513 |
| Worker | 1.0180 | 1.3273 | 14.1450 | 0.0516 | 4.4711 | 0.0309 | 4.5019 | 1.1858 | 0.0286 | 1.2144 | | | 3,637.3894 | 0.1613 | | 3,640.7757 |
| Total | 2.6723 | 13.4989 | 38.0166 | 0.1030 | 5.9715 | 0.2470 | 6.2184 | 1.6131 | 0.2274 | 1.8405 | | | 8,442.5721 | 0.1979 | | 8,446.7270 |

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4844 | 3.3677 | 3.6628 | 5.9400e-003 | | 0.2219 | 0.2219 | | 0.2219 | 0.2219 | | | 562.8961 | 0.0436 | | 563.8113 |
| Total | 11.0347 | 3.3677 | 3.6628 | 5.9400e-003 | | 0.2219 | 0.2219 | | 0.2219 | 0.2219 | | | 562.8961 | 0.0436 | | 563.8113 |

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 |
| 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 |
| Worker | 0.5191 | 0.6854 | 7.2713 | 0.0250 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,793.7001 | 0.0815 | | 1,795.4122 |
| Total | 0.5191 | 0.6854 | 7.2713 | 0.0250 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,793.7001 | 0.0815 | | 1,795.4122 |

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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1189 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0436 | | 563.8113 |
| Total | 10.6692 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0436 | | 563.8113 |

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 |
| 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 |
| Worker | 0.5191 | 0.6854 | 7.2713 | 0.0250 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,793.7001 | 0.0815 | | 1,795.4122 |
| Total | 0.5191 | 0.6854 | 7.2713 | 0.0250 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,793.7001 | 0.0815 | | 1,795.4122 |

3.7 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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4378 | 3.0537 | 3.6351 | 5.9400e-003 | | 0.1882 | 0.1882 | | 0.1882 | 0.1882 | | | 562.8961 | 0.0386 | | 563.7073 |
| Total | 10.9881 | 3.0537 | 3.6351 | 5.9400e-003 | | 0.1882 | 0.1882 | | 0.1882 | 0.1882 | | | 562.8961 | 0.0386 | | 563.7073 |

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 |
| 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 |
| Worker | 0.4937 | 0.6437 | 6.8604 | 0.0251 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,764.1338 | 0.0782 | | 1,765.7762 |
| Total | 0.4937 | 0.6437 | 6.8604 | 0.0251 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,764.1338 | 0.0782 | | 1,765.7762 |

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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1189 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0386 | | 563.7073 |
| Total | 10.6692 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0386 | | 563.7073 |

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 |
| 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 |
| Worker | 0.4937 | 0.6437 | 6.8604 | 0.0251 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,764.1338 | 0.0782 | | 1,765.7762 |
| Total | 0.4937 | 0.6437 | 6.8604 | 0.0251 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,764.1338 | 0.0782 | | 1,765.7762 |

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 | 13.7429 | 29.2820 | 144.6952 | 0.5233 | 38.9176 | 0.5302 | 39.4477 | 10.3856 | 0.4896 | 10.8752 | | | 38,960.9685 | 1.3528 | | 38,989.3773 |
| Unmitigated | 13.7429 | 29.2820 | 144.6952 | 0.5233 | 38.9176 | 0.5302 | 39.4477 | 10.3856 | 0.4896 | 10.8752 | | | 38,960.9685 | 1.3528 | | 38,989.3773 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 1,421.40 | 1,543.30 | 1370.80 | 4,891,946 | 4,891,946 |
| Apartments Mid Rise | 3,541.14 | 3,844.83 | 3260.37 | 12,111,802 | 12,111,802 |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Total | 4,962.54 | 5,388.13 | 4,631.17 | 17,003,748 | 17,003,748 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|-----------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C- | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| City Park | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.505043 | 0.056653 | 0.194832 | 0.151784 | 0.042126 | 0.005989 | 0.016072 | 0.016505 | 0.001461 | 0.002178 | 0.004464 | 0.000494 | 0.002401 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |
| NaturalGas Unmitigated | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |

5.2 Energy by Land Use - Natural Gas

Unmitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Apartments Low Rise | 6941.82 | 0.0749 | 0.6397 | 0.2722 | 4.0800e-003 | | 0.0517 | 0.0517 | | 0.0517 | 0.0517 | | | 816.6842 | 0.0157 | 0.0150 | 821.6544 |
| Apartments Mid Rise | 13522.5 | 0.1458 | 1.2462 | 0.5303 | 7.9500e-003 | | 0.1008 | 0.1008 | | 0.1008 | 0.1008 | | | 1,590.8807 | 0.0305 | 0.0292 | 1,600.5625 |
| Total | | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |

Mitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Apartments Low Rise | 4.47266 | 0.0482 | 0.4122 | 0.1754 | 2.6300e-003 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | | 526.1951 | 0.0101 | 9.6500e-003 | 529.3974 |
| Apartments Mid Rise | 8.50233 | 0.0917 | 0.7836 | 0.3334 | 5.0000e-003 | | 0.0634 | 0.0634 | | 0.0634 | 0.0634 | | | 1,000.2746 | 0.0192 | 0.0183 | 1,006.3621 |
| Total | | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |

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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Unmitigated | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

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 | 2.6541 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 33.9525 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0175 | 0.0000 | 9.5000e-004 | 0.0000 | | 0.0121 | 0.0121 | | 0.0119 | 0.0119 | | | 190.5882 | 3.6500e-003 | 3.4900e-003 | 191.7481 |
| Landscaping | 2.0151 | 0.7660 | 66.4480 | 3.5100e-003 | | 0.3669 | 0.3669 | | 0.3669 | 0.3669 | | | 119.5619 | 0.1158 | | 121.9939 |
| Total | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

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 | 2.6541 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 33.9525 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0175 | 0.0000 | 9.5000e-004 | 0.0000 | | 0.0121 | 0.0121 | | 0.0119 | 0.0119 | | | 190.5882 | 3.6500e-003 | 3.4900e-003 | 191.7481 |
| Landscaping | 2.0151 | 0.7660 | 66.4480 | 3.5100e-003 | | 0.3669 | 0.3669 | | 0.3669 | 0.3669 | | | 119.5619 | 0.1158 | | 121.9939 |
| Total | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Use Reclaimed Water
- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

- Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

LOWE; West Alton Parcel
Orange County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------------|--------|---------------|-------------|--------------------|------------|
| Enclosed Parking with Elevator | 790.00 | Space | 1.00 | 316,000.00 | 0 |
| Other Asphalt Surfaces | 460.00 | 1000sqft | 10.56 | 460,000.00 | 0 |
| City Park | 3.72 | Acre | 2.32 | 162,043.20 | 0 |
| Apartments Low Rise | 230.00 | Dwelling Unit | 4.92 | 239,572.00 | 458 |
| Apartments Mid Rise | 573.00 | Dwelling Unit | 13.50 | 537,157.00 | 1077 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 30 |
| Climate Zone | 8 | | | Operational Year | 2022 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 473.3 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Updated CO2 IF for 2022

Land Use - data needs and PD. Pop based on pop/housing section

Construction Phase - Per updated excel sheet (comments 3/2/16) and 9/21/16

Off-road Equipment - 2 air compressors

Off-road Equipment - 2 cranes, 4 forklifts, 4 generator sets, 4 tractors, 2 welders, 1 grader, 1 dozer

Off-road Equipment - 1 excavator, 2 TLBs, 1 crushing equipment

Off-road Equipment - 1 excavator, 2 graders, 2 dozers, 2 scapers, 2 tractors

Off-road Equipment - 2 dozers, 3 tractors

Off-road Equipment - 1 excavator, 3 tractors, 1 paver, 1 roller

Off-road Equipment - 1 paver, 1 roller, 1 excavator, 3 tractors

Trips and VMT - Defaults- Building trips reduced. SP/Grading numbers are calc'ed,

On-road Fugitive Dust - Defaults

Demolition - Per data to demo roads

Grading - 4,000 cy exported for site prep; 20,000 cy exported from grading (9/21/16)

Architectural Coating - only 25 percent of exteriors will be painted (131,073 sf). No Non-res interior sf to be painted, and painting for lines is estimated at 50,000

Vehicle Trips - defaults for city park. Apartment trip gen from traffic report. 6.18-weekday, 6.715- saturday. 5.692 sunday

Woodstoves - 9 gas fireplaces total

Area Coating - 25% of exteriors (131,073 sf for res ext), res interior= defaults. non-res ext: estimated at 50,000 for painting lines, etc. no non-res interior

Energy Use - Defaults

Water And Wastewater - total indoor water use: 34,310,000

total outdoor water use: 22,408,445

Sequestration -

Construction Off-road Equipment Mitigation - All Tier 3 for Construction equip

Mobile Land Use Mitigation - BMR housing VMT reduction to be calculated manually per SCAQMD

Area Mitigation -

Energy Mitigation - Meeting Title 24 2016 reqs; energy star appliances; onsite renewable, 1,592,550 kwh generated

Water Mitigation -

Waste Mitigation -

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-----------------------------------|---------------|------------|
| tblArchitecturalCoating | ConstArea_Nonresidential_Exterior | 469,022.00 | 50,000.00 |
| tblArchitecturalCoating | ConstArea_Nonresidential_Interior | 1,407,065.00 | 0.00 |
| tblArchitecturalCoating | ConstArea_Residential_Exterior | 524,292.00 | 131,073.00 |
| tblAreaCoating | Area_Nonresidential_Interior | 1407065 | 0 |

| | | | |
|-------------------------|----------------------------|-----------|--------|
| tblAreaCoating | Area_Residential_Exterior | 524292 | 131073 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 4.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 3.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 1.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 7.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 12.00 |
| tblConstEquipMitigation | NumberOfEquipmentMitigated | 0.00 | 2.00 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstEquipMitigation | Tier | No Change | Tier 3 |
| tblConstructionPhase | NumDays | 35.00 | 458.00 |
| tblConstructionPhase | NumDays | 500.00 | 698.00 |
| tblConstructionPhase | NumDays | 30.00 | 10.00 |

| | | | |
|----------------------|-------------------|------------|------------|
| tblConstructionPhase | NumDays | 45.00 | 107.00 |
| tblConstructionPhase | NumDays | 35.00 | 86.00 |
| tblConstructionPhase | NumDays | 20.00 | 66.00 |
| tblConstructionPhase | PhaseEndDate | 10/4/2023 | 12/31/2021 |
| tblConstructionPhase | PhaseEndDate | 3/2/2022 | 12/31/2021 |
| tblConstructionPhase | PhaseEndDate | 5/29/2019 | 4/30/2019 |
| tblConstructionPhase | PhaseEndDate | 8/28/2019 | 6/28/2019 |
| tblConstructionPhase | PhaseEndDate | 1/14/2019 | 12/31/2018 |
| tblConstructionPhase | PhaseStartDate | 1/1/2022 | 4/1/2020 |
| tblConstructionPhase | PhaseStartDate | 6/29/2019 | 5/1/2019 |
| tblConstructionPhase | PhaseStartDate | 1/1/2019 | 12/1/2018 |
| tblConstructionPhase | PhaseStartDate | 5/1/2019 | 3/1/2019 |
| tblConstructionPhase | PhaseStartDate | 10/13/2018 | 10/1/2018 |
| tblFireplaces | NumberGas | 195.50 | 9.00 |
| tblFireplaces | NumberGas | 487.05 | 0.00 |
| tblFireplaces | NumberNoFireplace | 23.00 | 0.00 |
| tblFireplaces | NumberNoFireplace | 57.30 | 0.00 |
| tblFireplaces | NumberWood | 11.50 | 0.00 |
| tblFireplaces | NumberWood | 28.65 | 0.00 |
| tblGrading | AcresOfGrading | 321.00 | 112.50 |
| tblGrading | MaterialExported | 0.00 | 20,000.00 |
| tblGrading | MaterialExported | 0.00 | 4,000.00 |
| tblLandUse | LandUseSquareFeet | 230,000.00 | 239,572.00 |
| tblLandUse | LandUseSquareFeet | 573,000.00 | 537,157.00 |
| tblLandUse | LotAcreage | 7.11 | 1.00 |
| tblLandUse | LotAcreage | 3.72 | 2.32 |
| tblLandUse | LotAcreage | 14.38 | 4.92 |
| tblLandUse | LotAcreage | 15.08 | 13.50 |
| tblLandUse | Population | 658.00 | 458.00 |
| tblLandUse | Population | 1,639.00 | 1,077.00 |

| | | | |
|---------------------------|----------------------------|---------------|---------------|
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 0.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 2.00 | 1.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 2.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00 | 4.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00 | 3.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 2.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 630.89 | 473.3 |
| tblProjectCharacteristics | OperationalYear | 2014 | 2022 |
| tblTripsAndVMT | HaulingTripNumber | 356.00 | 360.00 |
| tblTripsAndVMT | WorkerTripNumber | 972.00 | 400.00 |
| tblVehicleTrips | ST_TR | 7.16 | 6.71 |
| tblVehicleTrips | ST_TR | 7.16 | 6.71 |
| tblVehicleTrips | ST_TR | 1.59 | 0.00 |
| tblVehicleTrips | SU_TR | 6.07 | 5.96 |
| tblVehicleTrips | SU_TR | 6.07 | 5.69 |
| tblVehicleTrips | SU_TR | 1.59 | 0.00 |
| tblVehicleTrips | WD_TR | 6.59 | 6.18 |
| tblVehicleTrips | WD_TR | 6.59 | 6.18 |
| tblVehicleTrips | WD_TR | 1.59 | 0.00 |
| tblWater | IndoorWaterUseRate | 14,985,425.89 | 0.00 |
| tblWater | IndoorWaterUseRate | 37,333,256.68 | 34,310,000.00 |

| | | | |
|---------------|---------------------|---------------|---------------|
| tblWater | OutdoorWaterUseRate | 9,447,333.72 | 0.00 |
| tblWater | OutdoorWaterUseRate | 23,536,183.56 | 22,408,445.00 |
| tblWater | OutdoorWaterUseRate | 4,432,310.62 | 0.00 |
| tblWoodstoves | NumberCatalytic | 11.50 | 0.00 |
| tblWoodstoves | NumberCatalytic | 28.65 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 11.50 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 28.65 | 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 | | | | | |
| 2018 | 10.4723 | 115.0403 | 84.8964 | 0.1262 | 27.4379 | 5.4003 | 32.8382 | 13.9304 | 4.9683 | 18.8987 | | | 12,528.9692 | 3.1251 | 0.0000 | 12,594.5957 |
| 2019 | 11.0123 | 90.9107 | 99.7329 | 0.2013 | 14.0877 | 4.5173 | 18.3772 | 6.9867 | 4.2443 | 10.9331 | | | 18,182.0243 | 2.9523 | 0.0000 | 18,244.0230 |
| 2020 | 19.9238 | 72.7324 | 92.3603 | 0.2098 | 8.1398 | 3.4328 | 11.5727 | 2.1881 | 3.2530 | 5.4411 | | | 17,971.0026 | 1.7753 | 0.0000 | 18,008.2830 |
| 2021 | 19.1659 | 65.0456 | 89.4038 | 0.2099 | 8.1399 | 2.9834 | 11.1234 | 2.1882 | 2.8257 | 5.0139 | | | 17,871.5811 | 1.7399 | 0.0000 | 17,908.1185 |
| Total | 60.5744 | 343.7290 | 366.3934 | 0.7473 | 57.8053 | 16.3339 | 73.9115 | 25.2934 | 15.2913 | 40.2868 | | | 66,553.5770 | 9.5925 | 0.0000 | 66,755.0202 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|-----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2018 | 1.7967 | 43.9302 | 60.1621 | 0.1262 | 13.5607 | 1.7400 | 15.3006 | 6.5794 | 1.7883 | 8.3677 | | | 12,528.9692 | 3.1251 | 0.0000 | 12,594.5957 |
| 2019 | 5.2942 | 63.0231 | 99.2573 | 0.2013 | 6.8385 | 3.0616 | 9.2006 | 3.2775 | 3.0387 | 5.3228 | | | 18,182.0242 | 2.9523 | 0.0000 | 18,244.0230 |
| 2020 | 15.3139 | 52.7154 | 91.6516 | 0.2098 | 8.1398 | 2.5358 | 10.6756 | 2.1881 | 2.5192 | 4.7073 | | | 17,971.0026 | 1.7753 | 0.0000 | 18,008.2830 |
| 2021 | 15.2001 | 50.6689 | 90.0145 | 0.2099 | 8.1399 | 2.5180 | 10.6580 | 2.1882 | 2.5029 | 4.6911 | | | 17,871.5811 | 1.7399 | 0.0000 | 17,908.1185 |
| Total | 37.6049 | 210.3376 | 341.0854 | 0.7473 | 36.6789 | 9.8554 | 45.8348 | 14.2331 | 9.8491 | 23.0889 | | | 66,553.5770 | 9.5925 | 0.0000 | 66,755.0201 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|--------------|--------------|-------------|-------------|---------------|--------------|--------------|----------------|---------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Percent Reduction | 37.92 | 38.81 | 6.91 | 0.00 | 36.55 | 39.66 | 37.99 | 43.73 | 35.59 | 42.69 | 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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Energy | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |
| Mobile | 13.0794 | 27.6961 | 146.5058 | 0.5479 | 38.9176 | 0.5288 | 39.4464 | 10.3856 | 0.4884 | 10.8740 | | | 40,704.4806 | 1.3518 | | 40,732.8677 |
| Total | 51.9392 | 30.3480 | 213.7573 | 0.5635 | 38.9176 | 1.0603 | 39.9778 | 10.3856 | 1.0197 | 11.4053 | | | 43,422.1957 | 1.5174 | 0.0476 | 43,468.8266 |

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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Energy | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |
| Mobile | 13.0794 | 27.6961 | 146.5058 | 0.5479 | 38.9176 | 0.5288 | 39.4464 | 10.3856 | 0.4884 | 10.8740 | | | 40,704.4806 | 1.3518 | | 40,732.8677 |
| Total | 51.8585 | 29.6578 | 213.4636 | 0.5591 | 38.9176 | 1.0045 | 39.9220 | 10.3856 | 0.9639 | 11.3495 | | | 42,541.1005 | 1.5005 | 0.0315 | 42,582.3692 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|-------|------|
| Percent Reduction | 0.16 | 2.27 | 0.14 | 0.78 | 0.00 | 5.26 | 0.14 | 0.00 | 5.47 | 0.49 | 0.00 | 0.00 | 2.03 | 1.11 | 33.91 | 2.04 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|--------------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Demolition | Demolition | 10/1/2018 | 10/12/2018 | 5 | 10 | |
| 2 | Site Preparation | Site Preparation | 10/1/2018 | 12/31/2018 | 5 | 66 | |
| 3 | Grading | Grading | 12/1/2018 | 4/30/2019 | 5 | 107 | |
| 4 | Underground Infra/Paving | Paving | 3/1/2019 | 6/28/2019 | 5 | 86 | |
| 5 | Building | Building Construction | 5/1/2019 | 12/31/2021 | 5 | 698 | |
| 6 | Architectural Coating | Architectural Coating | 4/1/2020 | 12/31/2021 | 5 | 458 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 1,572,876; Residential Outdoor: 131,073; Non-Residential Indoor: 0; Non-Residential Outdoor: 50,000 (Architectural

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|--------------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Crushing/Proc. Equipment | 1 | 8.00 | 85 | 0.78 |
| Demolition | Excavators | 1 | 8.00 | 162 | 0.38 |
| Demolition | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 162 | 0.38 |
| Grading | Graders | 2 | 8.00 | 174 | 0.41 |
| Grading | Rubber Tired Dozers | 2 | 8.00 | 255 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 361 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Underground Infra/Paving | Excavators | 1 | 8.00 | 162 | 0.38 |
| Underground Infra/Paving | Pavers | 1 | 8.00 | 125 | 0.42 |

| | | | | | |
|--------------------------|---------------------------|---|------|-----|------|
| Underground Infra/Paving | Paving Equipment | 0 | 8.00 | 130 | 0.36 |
| Underground Infra/Paving | Rollers | 1 | 8.00 | 80 | 0.38 |
| Underground Infra/Paving | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building | Cranes | 2 | 7.00 | 226 | 0.29 |
| Building | Forklifts | 4 | 8.00 | 89 | 0.20 |
| Building | Generator Sets | 4 | 8.00 | 84 | 0.74 |
| Building | Graders | 1 | 8.00 | 174 | 0.41 |
| Building | Rubber Tired Dozers | 1 | 6.00 | 255 | 0.40 |
| Building | Tractors/Loaders/Backhoes | 4 | 7.00 | 97 | 0.37 |
| Building | Welders | 2 | 8.00 | 46 | 0.45 |
| Architectural Coating | Air Compressors | 2 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|--------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Demolition | 4 | 10.00 | 0.00 | 360.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 5 | 13.00 | 0.00 | 500.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 9 | 23.00 | 0.00 | 2,500.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Underground Infra/Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building | 18 | 400.00 | 240.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 2 | 194.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

3.2 Demolition - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.7036 | 0.0000 | 7.7036 | 1.1664 | 0.0000 | 1.1664 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.5069 | 12.9719 | 12.4322 | 0.0185 | | 0.8586 | 0.8586 | | 0.8165 | 0.8165 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |
| Total | 1.5069 | 12.9719 | 12.4322 | 0.0185 | 7.7036 | 0.8586 | 8.5623 | 1.1664 | 0.8165 | 1.9829 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |

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 | 0.6019 | 8.4448 | 6.6693 | 0.0264 | 0.6273 | 0.1364 | 0.7637 | 0.1718 | 0.1255 | 0.2973 | | | 2,580.8851 | 0.0189 | | 2,581.2810 |
| 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 |
| Worker | 0.0288 | 0.0371 | 0.4586 | 1.3600e-003 | 0.1118 | 7.5000e-004 | 0.1125 | 0.0296 | 7.0000e-004 | 0.0303 | | | 104.9866 | 4.6200e-003 | | 105.0836 |
| Total | 0.6307 | 8.4820 | 7.1279 | 0.0278 | 0.7391 | 0.1372 | 0.8763 | 0.2014 | 0.1262 | 0.3276 | | | 2,685.8717 | 0.0235 | | 2,686.3646 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.4666 | 0.0000 | 3.4666 | 0.5249 | 0.0000 | 0.5249 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4796 | 9.4603 | 13.0263 | 0.0185 | | 0.6086 | 0.6086 | | 0.6041 | 0.6041 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |
| Total | 0.4796 | 9.4603 | 13.0263 | 0.0185 | 3.4666 | 0.6086 | 4.0753 | 0.5249 | 0.6041 | 1.1290 | | | 1,822.8211 | 0.4214 | | 1,831.6705 |

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 | 0.6019 | 8.4448 | 6.6693 | 0.0264 | 0.6273 | 0.1364 | 0.7637 | 0.1718 | 0.1255 | 0.2973 | | | 2,580.8851 | 0.0189 | | 2,581.2810 |
| 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 |
| Worker | 0.0288 | 0.0371 | 0.4586 | 1.3600e-003 | 0.1118 | 7.5000e-004 | 0.1125 | 0.0296 | 7.0000e-004 | 0.0303 | | | 104.9866 | 4.6200e-003 | | 105.0836 |
| Total | 0.6307 | 8.4820 | 7.1279 | 0.0278 | 0.7391 | 0.1372 | 0.8763 | 0.2014 | 0.1262 | 0.3276 | | | 2,685.8717 | 0.0235 | | 2,686.3646 |

3.3 Site Preparation - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 12.0510 | 0.0000 | 12.0510 | 6.6215 | 0.0000 | 6.6215 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.9501 | 31.2824 | 24.9353 | 0.0271 | | 1.6390 | 1.6390 | | 1.5079 | 1.5079 | | | 2,730.7741 | 0.8501 | | 2,748.6268 |
| Total | 2.9501 | 31.2824 | 24.9353 | 0.0271 | 12.0510 | 1.6390 | 13.6901 | 6.6215 | 1.5079 | 8.1294 | | | 2,730.7741 | 0.8501 | | 2,748.6268 |

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 | 0.1267 | 1.7771 | 1.4035 | 5.5600e-003 | 0.1320 | 0.0287 | 0.1607 | 0.0362 | 0.0264 | 0.0626 | | | 543.1156 | 3.9700e-003 | | 543.1989 |
| 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 |
| Worker | 0.0375 | 0.0483 | 0.5962 | 1.7600e-003 | 0.1453 | 9.8000e-004 | 0.1463 | 0.0385 | 9.1000e-004 | 0.0395 | | | 136.4826 | 6.0100e-003 | | 136.6087 |
| Total | 0.1641 | 1.8254 | 1.9996 | 7.3200e-003 | 0.2773 | 0.0297 | 0.3070 | 0.0747 | 0.0273 | 0.1020 | | | 679.5981 | 9.9800e-003 | | 679.8076 |

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 | | | | | 5.4230 | 0.0000 | 5.4230 | 2.9797 | 0.0000 | 2.9797 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.0572 | 7.9349 | 12.9503 | 0.0271 | | 0.4050 | 0.4050 | | 0.4328 | 0.4328 | | | 2,730.7741 | 0.8501 | | 2,748.6267 |
| Total | 0.0572 | 7.9349 | 12.9503 | 0.0271 | 5.4230 | 0.4050 | 5.8279 | 2.9797 | 0.4328 | 3.4125 | | | 2,730.7741 | 0.8501 | | 2,748.6267 |

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 | 0.1267 | 1.7771 | 1.4035 | 5.5600e-003 | 0.1320 | 0.0287 | 0.1607 | 0.0362 | 0.0264 | 0.0626 | | | 543.1156 | 3.9700e-003 | | 543.1989 |
| 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 |
| Worker | 0.0375 | 0.0483 | 0.5962 | 1.7600e-003 | 0.1453 | 9.8000e-004 | 0.1463 | 0.0385 | 9.1000e-004 | 0.0395 | | | 136.4826 | 6.0100e-003 | | 136.6087 |
| Total | 0.1641 | 1.8254 | 1.9996 | 7.3200e-003 | 0.2773 | 0.0297 | 0.3070 | 0.0747 | 0.0273 | 0.1020 | | | 679.5981 | 9.9800e-003 | | 679.8076 |

3.4 Grading - 2018

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.1803 | 0.0000 | 13.1803 | 6.7441 | 0.0000 | 6.7441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.9011 | 76.3663 | 52.5783 | 0.0715 | | 3.6413 | 3.6413 | | 3.3500 | 3.3500 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |
| Total | 6.9011 | 76.3663 | 52.5783 | 0.0715 | 13.1803 | 3.6413 | 16.8216 | 6.7441 | 3.3500 | 10.0941 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |

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 | 0.3906 | 5.4808 | 4.3285 | 0.0172 | 1.6722 | 0.0886 | 1.7607 | 0.4220 | 0.0815 | 0.5035 | | | 1,675.0293 | 0.0122 | | 1,675.2862 |
| 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 |
| Worker | 0.0663 | 0.0854 | 1.0548 | 3.1200e-003 | 0.2571 | 1.7400e-003 | 0.2588 | 0.0682 | 1.6100e-003 | 0.0698 | | | 241.4691 | 0.0106 | | 241.6923 |
| Total | 0.4570 | 5.5662 | 5.3832 | 0.0203 | 1.9293 | 0.0903 | 2.0195 | 0.4902 | 0.0831 | 0.5732 | | | 1,916.4984 | 0.0229 | | 1,916.9786 |

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 | | | | | 5.9312 | 0.0000 | 5.9312 | 3.0348 | 0.0000 | 3.0348 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1184 | 28.6037 | 39.8290 | 0.0715 | | 1.2150 | 1.2150 | | 1.2451 | 1.2451 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |
| Total | 1.1184 | 28.6037 | 39.8290 | 0.0715 | 5.9312 | 1.2150 | 7.1462 | 3.0348 | 1.2451 | 4.2800 | | | 7,202.0985 | 2.2421 | | 7,249.1829 |

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 | 0.3906 | 5.4808 | 4.3285 | 0.0172 | 1.6722 | 0.0886 | 1.7607 | 0.4220 | 0.0815 | 0.5035 | | | 1,675.0293 | 0.0122 | | 1,675.2862 |
| 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 |
| Worker | 0.0663 | 0.0854 | 1.0548 | 3.1200e-003 | 0.2571 | 1.7400e-003 | 0.2588 | 0.0682 | 1.6100e-003 | 0.0698 | | | 241.4691 | 0.0106 | | 241.6923 |
| Total | 0.4570 | 5.5662 | 5.3832 | 0.0203 | 1.9293 | 0.0903 | 2.0195 | 0.4902 | 0.0831 | 0.5732 | | | 1,916.4984 | 0.0229 | | 1,916.9786 |

3.4 Grading - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 13.1803 | 0.0000 | 13.1803 | 6.7441 | 0.0000 | 6.7441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 6.4191 | 70.0661 | 50.0756 | 0.0715 | | 3.3045 | 3.3045 | | 3.0401 | 3.0401 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |
| Total | 6.4191 | 70.0661 | 50.0756 | 0.0715 | 13.1803 | 3.3045 | 16.4848 | 6.7441 | 3.0401 | 9.7842 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |

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 | 0.3798 | 5.1585 | 4.1757 | 0.0172 | 0.4826 | 0.0870 | 0.5696 | 0.1300 | 0.0801 | 0.2101 | | | 1,651.4031 | 0.0125 | | 1,651.6661 |
| 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 |
| Worker | 0.0621 | 0.0792 | 0.9847 | 3.1300e-003 | 0.2571 | 1.7500e-003 | 0.2588 | 0.0682 | 1.6200e-003 | 0.0698 | | | 233.9532 | 0.0102 | | 234.1663 |
| Total | 0.4418 | 5.2376 | 5.1604 | 0.0203 | 0.7397 | 0.0888 | 0.8285 | 0.1982 | 0.0817 | 0.2799 | | | 1,885.3563 | 0.0227 | | 1,885.8324 |

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 | | | | | 5.9312 | 0.0000 | 5.9312 | 3.0348 | 0.0000 | 3.0348 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.1458 | 29.0320 | 40.1627 | 0.0715 | | 1.2310 | 1.2310 | | 1.2598 | 1.2598 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |
| Total | 1.1458 | 29.0320 | 40.1627 | 0.0715 | 5.9312 | 1.2310 | 7.1622 | 3.0348 | 1.2598 | 4.2946 | | | 7,084.7553 | 2.2415 | | 7,131.8277 |

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 | 0.3798 | 5.1585 | 4.1757 | 0.0172 | 0.4826 | 0.0870 | 0.5696 | 0.1300 | 0.0801 | 0.2101 | | | 1,651.4031 | 0.0125 | | 1,651.6661 |
| 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 |
| Worker | 0.0621 | 0.0792 | 0.9847 | 3.1300e-003 | 0.2571 | 1.7500e-003 | 0.2588 | 0.0682 | 1.6200e-003 | 0.0698 | | | 233.9532 | 0.0102 | | 234.1663 |
| Total | 0.4418 | 5.2376 | 5.1604 | 0.0203 | 0.7397 | 0.0888 | 0.8285 | 0.1982 | 0.0817 | 0.2799 | | | 1,885.3563 | 0.0227 | | 1,885.8324 |

3.5 Underground Infra/Paving - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.4690 | 15.0072 | 14.9512 | 0.0218 | | 0.8952 | 0.8952 | | 0.8236 | 0.8236 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |
| Paving | 0.3217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.7907 | 15.0072 | 14.9512 | 0.0218 | | 0.8952 | 0.8952 | | 0.8236 | 0.8236 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |

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 |
| 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 |
| Worker | 0.0405 | 0.0516 | 0.6422 | 2.0400e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 152.5782 | 6.6200e-003 | | 152.7171 |
| Total | 0.0405 | 0.0516 | 0.6422 | 2.0400e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 152.5782 | 6.6200e-003 | | 152.7171 |

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 | 0.6042 | 11.6107 | 16.4355 | 0.0218 | | 0.7084 | 0.7084 | | 0.7028 | 0.7028 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |
| Paving | 0.3217 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 0.9259 | 11.6107 | 16.4355 | 0.0218 | | 0.7084 | 0.7084 | | 0.7028 | 0.7028 | | | 2,153.9692 | 0.6815 | | 2,168.2806 |

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 |
| 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 |
| Worker | 0.0405 | 0.0516 | 0.6422 | 2.0400e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 152.5782 | 6.6200e-003 | | 152.7171 |
| Total | 0.0405 | 0.0516 | 0.6422 | 2.0400e-003 | 0.1677 | 1.1400e-003 | 0.1688 | 0.0445 | 1.0600e-003 | 0.0455 | | | 152.5782 | 6.6200e-003 | | 152.7171 |

3.6 Building - 2019

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 6.4019 | 58.3940 | 46.2682 | 0.0712 | | 3.3324 | 3.3324 | | 3.1540 | 3.1540 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |
| Total | 6.4019 | 58.3940 | 46.2682 | 0.0712 | | 3.3324 | 3.3324 | | 3.1540 | 3.1540 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |

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 |
| Vendor | 1.7003 | 16.0810 | 20.7462 | 0.0519 | 1.5002 | 0.2581 | 1.7584 | 0.4273 | 0.2374 | 0.6647 | | | 4,963.0095 | 0.0358 | | 4,963.7620 |
| Worker | 1.0791 | 1.3769 | 17.1251 | 0.0545 | 4.4711 | 0.0304 | 4.5015 | 1.1858 | 0.0282 | 1.2140 | | | 4,068.7514 | 0.1764 | | 4,072.4565 |
| Total | 2.7793 | 17.4579 | 37.8713 | 0.1064 | 5.9713 | 0.2886 | 6.2599 | 1.6130 | 0.2657 | 1.8787 | | | 9,031.7608 | 0.2123 | | 9,036.2186 |

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 | 1.5485 | 33.9029 | 44.3083 | 0.0712 | | 2.0635 | 2.0635 | | 2.0692 | 2.0692 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |
| Total | 1.5485 | 33.9029 | 44.3083 | 0.0712 | | 2.0635 | 2.0635 | | 2.0692 | 2.0692 | | | 6,843.7160 | 1.4727 | | 6,874.6436 |

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 |
| Vendor | 1.7003 | 16.0810 | 20.7462 | 0.0519 | 1.5002 | 0.2581 | 1.7584 | 0.4273 | 0.2374 | 0.6647 | | | 4,963.0095 | 0.0358 | | 4,963.7620 |
| Worker | 1.0791 | 1.3769 | 17.1251 | 0.0545 | 4.4711 | 0.0304 | 4.5015 | 1.1858 | 0.0282 | 1.2140 | | | 4,068.7514 | 0.1764 | | 4,072.4565 |
| Total | 2.7793 | 17.4579 | 37.8713 | 0.1064 | 5.9713 | 0.2886 | 6.2599 | 1.6130 | 0.2657 | 1.8787 | | | 9,031.7608 | 0.2123 | | 9,036.2186 |

3.6 Building - 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 | 5.8008 | 53.4154 | 45.1859 | 0.0712 | | 2.9297 | 2.9297 | | 2.7720 | 2.7720 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |
| Total | 5.8008 | 53.4154 | 45.1859 | 0.0712 | | 2.9297 | 2.9297 | | 2.7720 | 2.7720 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |

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 |
| Vendor | 1.5723 | 14.0400 | 19.6311 | 0.0518 | 1.5003 | 0.2359 | 1.7362 | 0.4273 | 0.2170 | 0.6443 | | | 4,850.4084 | 0.0351 | | 4,851.1461 |
| Worker | 1.0209 | 1.2857 | 16.0811 | 0.0545 | 4.4711 | 0.0306 | 4.5016 | 1.1858 | 0.0284 | 1.2141 | | | 3,905.9211 | 0.1681 | | 3,909.4510 |
| Total | 2.5933 | 15.3257 | 35.7122 | 0.1063 | 5.9714 | 0.2665 | 6.2378 | 1.6131 | 0.2454 | 1.8584 | | | 8,756.3295 | 0.2032 | | 8,760.5971 |

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 | 1.5563 | 34.0522 | 44.4753 | 0.0712 | | 2.0643 | 2.0643 | | 2.0699 | 2.0699 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |
| Total | 1.5563 | 34.0522 | 44.4753 | 0.0712 | | 2.0643 | 2.0643 | | 2.0699 | 2.0699 | | | 6,757.4052 | 1.4469 | | 6,787.7908 |

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 |
| Vendor | 1.5723 | 14.0400 | 19.6311 | 0.0518 | 1.5003 | 0.2359 | 1.7362 | 0.4273 | 0.2170 | 0.6443 | | | 4,850.4084 | 0.0351 | | 4,851.1461 |
| Worker | 1.0209 | 1.2857 | 16.0811 | 0.0545 | 4.4711 | 0.0306 | 4.5016 | 1.1858 | 0.0284 | 1.2141 | | | 3,905.9211 | 0.1681 | | 3,909.4510 |
| Total | 2.5933 | 15.3257 | 35.7122 | 0.1063 | 5.9714 | 0.2665 | 6.2378 | 1.6131 | 0.2454 | 1.8584 | | | 8,756.3295 | 0.2032 | | 8,760.5971 |

3.6 Building - 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 | 5.2146 | 48.2815 | 44.0839 | 0.0712 | | 2.5351 | 2.5351 | | 2.3978 | 2.3978 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |
| Total | 5.2146 | 48.2815 | 44.0839 | 0.0712 | | 2.5351 | 2.5351 | | 2.3978 | 2.3978 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |

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 |
| Vendor | 1.5208 | 11.9167 | 19.1196 | 0.0517 | 1.5004 | 0.2144 | 1.7148 | 0.4273 | 0.1972 | 0.6246 | | | 4,846.3613 | 0.0353 | | 4,847.1033 |
| Worker | 0.9713 | 1.2079 | 15.1954 | 0.0546 | 4.4711 | 0.0309 | 4.5019 | 1.1858 | 0.0286 | 1.2144 | | | 3,841.7301 | 0.1613 | | 3,845.1165 |
| Total | 2.4921 | 13.1246 | 34.3150 | 0.1063 | 5.9715 | 0.2452 | 6.2167 | 1.6131 | 0.2258 | 1.8389 | | | 8,688.0915 | 0.1966 | | 8,692.2197 |

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 | 1.5677 | 34.2445 | 44.6649 | 0.0712 | | 2.0677 | 2.0677 | | 2.0730 | 2.0730 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |
| Total | 1.5677 | 34.2445 | 44.6649 | 0.0712 | | 2.0677 | 2.0677 | | 2.0730 | 2.0730 | | | 6,757.3544 | 1.4265 | | 6,787.3100 |

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 |
| Vendor | 1.5208 | 11.9167 | 19.1196 | 0.0517 | 1.5004 | 0.2144 | 1.7148 | 0.4273 | 0.1972 | 0.6246 | | | 4,846.3613 | 0.0353 | | 4,847.1033 |
| Worker | 0.9713 | 1.2079 | 15.1954 | 0.0546 | 4.4711 | 0.0309 | 4.5019 | 1.1858 | 0.0286 | 1.2144 | | | 3,841.7301 | 0.1613 | | 3,845.1165 |
| Total | 2.4921 | 13.1246 | 34.3150 | 0.1063 | 5.9715 | 0.2452 | 6.2167 | 1.6131 | 0.2258 | 1.8389 | | | 8,688.0915 | 0.1966 | | 8,692.2197 |

3.7 Architectural Coating - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4844 | 3.3677 | 3.6628 | 5.9400e-003 | | 0.2219 | 0.2219 | | 0.2219 | 0.2219 | | | 562.8961 | 0.0436 | | 563.8113 |
| Total | 11.0347 | 3.3677 | 3.6628 | 5.9400e-003 | | 0.2219 | 0.2219 | | 0.2219 | 0.2219 | | | 562.8961 | 0.0436 | | 563.8113 |

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 |
| 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 |
| Worker | 0.4952 | 0.6236 | 7.7993 | 0.0264 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,894.3717 | 0.0815 | | 1,896.0838 |
| Total | 0.4952 | 0.6236 | 7.7993 | 0.0264 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,894.3717 | 0.0815 | | 1,896.0838 |

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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1189 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0436 | | 563.8113 |
| Total | 10.6692 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0436 | | 563.8113 |

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 |
| 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 |
| Worker | 0.4952 | 0.6236 | 7.7993 | 0.0264 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,894.3717 | 0.0815 | | 1,896.0838 |
| Total | 0.4952 | 0.6236 | 7.7993 | 0.0264 | 2.1685 | 0.0148 | 2.1833 | 0.5751 | 0.0138 | 0.5888 | | | 1,894.3717 | 0.0815 | | 1,896.0838 |

3.7 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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.4378 | 3.0537 | 3.6351 | 5.9400e-003 | | 0.1882 | 0.1882 | | 0.1882 | 0.1882 | | | 562.8961 | 0.0386 | | 563.7073 |
| Total | 10.9881 | 3.0537 | 3.6351 | 5.9400e-003 | | 0.1882 | 0.1882 | | 0.1882 | 0.1882 | | | 562.8961 | 0.0386 | | 563.7073 |

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 |
| 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 |
| Worker | 0.4711 | 0.5858 | 7.3698 | 0.0265 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,863.2391 | 0.0782 | | 1,864.8815 |
| Total | 0.4711 | 0.5858 | 7.3698 | 0.0265 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,863.2391 | 0.0782 | | 1,864.8815 |

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 | 10.5503 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1189 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0386 | | 563.7073 |
| Total | 10.6692 | 2.7140 | 3.6648 | 5.9400e-003 | | 0.1902 | 0.1902 | | 0.1902 | 0.1902 | | | 562.8961 | 0.0386 | | 563.7073 |

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 |
| 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 |
| Worker | 0.4711 | 0.5858 | 7.3698 | 0.0265 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,863.2391 | 0.0782 | | 1,864.8815 |
| Total | 0.4711 | 0.5858 | 7.3698 | 0.0265 | 2.1685 | 0.0150 | 2.1834 | 0.5751 | 0.0139 | 0.5890 | | | 1,863.2391 | 0.0782 | | 1,864.8815 |

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 | 13.0794 | 27.6961 | 146.5058 | 0.5479 | 38.9176 | 0.5288 | 39.4464 | 10.3856 | 0.4884 | 10.8740 | | | 40,704.4806 | 1.3518 | | 40,732.8677 |
| Unmitigated | 13.0794 | 27.6961 | 146.5058 | 0.5479 | 38.9176 | 0.5288 | 39.4464 | 10.3856 | 0.4884 | 10.8740 | | | 40,704.4806 | 1.3518 | | 40,732.8677 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|--------------------------------|-------------------------|-----------------|-----------------|-------------------|-------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Low Rise | 1,421.40 | 1,543.30 | 1370.80 | 4,891,946 | 4,891,946 |
| Apartments Mid Rise | 3,541.14 | 3,844.83 | 3260.37 | 12,111,802 | 12,111,802 |
| City Park | 0.00 | 0.00 | 0.00 | | |
| Enclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Total | 4,962.54 | 5,388.13 | 4,631.17 | 17,003,748 | 17,003,748 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Low Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| Apartments Mid Rise | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |
| City Park | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 66 | 28 | 6 |
| Enclosed Parking with Elevator | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

| LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0.505043 | 0.056653 | 0.194832 | 0.151784 | 0.042126 | 0.005989 | 0.016072 | 0.016505 | 0.001461 | 0.002178 | 0.004464 | 0.000494 | 0.002401 |

5.0 Energy Detail

4.4 Fleet Mix

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

Kilowatt Hours of Renewable Electricity Generated

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |
| NaturalGas Unmitigated | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Apartments Low Rise | 6941.82 | 0.0749 | 0.6397 | 0.2722 | 4.0800e-003 | | 0.0517 | 0.0517 | | 0.0517 | 0.0517 | | | 816.6842 | 0.0157 | 0.0150 | 821.6544 |
| Apartments Mid Rise | 13522.5 | 0.1458 | 1.2462 | 0.5303 | 7.9500e-003 | | 0.1008 | 0.1008 | | 0.1008 | 0.1008 | | | 1,590.8807 | 0.0305 | 0.0292 | 1,600.5625 |
| Total | | 0.2207 | 1.8859 | 0.8025 | 0.0120 | | 0.1525 | 0.1525 | | 0.1525 | 0.1525 | | | 2,407.5649 | 0.0461 | 0.0441 | 2,422.2170 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Enclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Apartments Low Rise | 4.47266 | 0.0482 | 0.4122 | 0.1754 | 2.6300e-003 | | 0.0333 | 0.0333 | | 0.0333 | 0.0333 | | | 526.1951 | 0.0101 | 9.6500e-003 | 529.3974 |
| Apartments Mid Rise | 8.50233 | 0.0917 | 0.7836 | 0.3334 | 5.0000e-003 | | 0.0634 | 0.0634 | | 0.0634 | 0.0634 | | | 1,000.2746 | 0.0192 | 0.0183 | 1,006.3621 |
| Total | | 0.1399 | 1.1957 | 0.5088 | 7.6300e-003 | | 0.0967 | 0.0967 | | 0.0967 | 0.0967 | | | 1,526.4697 | 0.0293 | 0.0280 | 1,535.7596 |

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 | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |
| Unmitigated | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

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 | 2.6541 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 33.9525 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0175 | 0.0000 | 9.5000e-004 | 0.0000 | | 0.0121 | 0.0121 | | 0.0119 | 0.0119 | | | 190.5882 | 3.6500e-003 | 3.4900e-003 | 191.7481 |
| Landscaping | 2.0151 | 0.7660 | 66.4480 | 3.5100e-003 | | 0.3669 | 0.3669 | | 0.3669 | 0.3669 | | | 119.5619 | 0.1158 | | 121.9939 |
| Total | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

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 | 2.6541 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 33.9525 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 0.0175 | 0.0000 | 9.5000e-004 | 0.0000 | | 0.0121 | 0.0121 | | 0.0119 | 0.0119 | | | 190.5882 | 3.6500e-003 | 3.4900e-003 | 191.7481 |
| Landscaping | 2.0151 | 0.7660 | 66.4480 | 3.5100e-003 | | 0.3669 | 0.3669 | | 0.3669 | 0.3669 | | | 119.5619 | 0.1158 | | 121.9939 |
| Total | 38.6391 | 0.7660 | 66.4490 | 3.5100e-003 | | 0.3790 | 0.3790 | | 0.3788 | 0.3788 | | | 310.1502 | 0.1195 | 3.4900e-003 | 313.7420 |

7.0 Water Detail

7.1 Mitigation Measures Water

Use Reclaimed Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

9.0 Operational Offroad

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

10.0 Vegetation

Consumer Products Adjustments for CalEEMod error

| | MND | sf | | Adjust | sf |
|-----------------------------|-----------|-----------|-----------|--------------------------------|--------------------|
| | 2.04E-05 | lb/sf/day | 316,000 | Enclosed Parking with Elevator | 2.04E-05 lb/sf/day |
| | 1,714,772 | sf | 460,000 | Other Asphalt Surfaces | 776,729 sf |
| original CalEE result 33.95 | 34.98 | lb/day | 162,043 | City Park | 15.85 lb/day |
| | 365 | days/year | 239,572 | Apartments Low Rise | 365 days/year |
| | 12768 | lb/yr | 537,157 | Apartments Mid Rise | 5784 lb/yr |
| | 2000 | lb/ton | - | #REF! | 2000 lb/ton |
| | 6.38 | ton/yr | - | | 2.89 ton/yr |
| | | | 1,714,772 | | |
| | | | delta | | 19.14 lb/day |
| | #VALUE! | | | | 3.49 ton/yr |

this emission factor is 2.04E-05 for SCAQMD and 2.14E-05 for all other areas. It should be the

| | |
|--------------------------------|------------|
| Enclosed Parking with Elevator | 316,000.00 |
| Other Asphalt Surfaces | 460,000.00 |
| City Park | 162,043.20 |
| Apartments Low Rise | 239,572.00 |
| Apartments Mid Rise | 537,157.00 |
| | |

| | EIR | Adjust | |
|-------------------|----------------|-------------------|-------------------|
| Architectural | 2.65 | 2.65 | |
| Coating | | | |
| Consumer Products | 33.9525 | 15.85 | Area |
| Hearth | 0.0175 | 0.0175 | Energy |
| Landscaping | 2.0151 | 2.0151 | Mobile |
| Total | 38.6351 | 20.5278716 | Total |
| | | | |
| 776,729 | Area | 38.6391 | 20.5278716 |
| | Energy | 0.1399 | 0.1399 |
| | Mobile | 13.7429 | 13.7429 |
| | Total | 52.5219 | 34.4106716 |

Manual Calculations for Advanced Clean Cars and Below Market Rate Housing

West Alton Parcel 9/6/2016

Advanced Clean Cars percent VMT reduction
 see AQ section text for explanation 1

Below Market Rate (BMR) Housing percent formula percent BMR units percent VMT reduce
 see notes below 4 11 0.44

Total VMT reduction 1.44

for 2030

| Mobile Emissions | ROG | Nox | CO | SO2 | Fug PM10 | Exh PM10 | Tot PM10 | Fug PM2.5 | Exh PM 2.5 | Tot PM 2.5 | MT CO2e | MT CO2e |
|--|----------|----------|----------|----------|----------|----------|----------|-----------|------------|------------|----------|----------|
| from CalEEMod | 13.7429 | 29.282 | 146.5058 | 0.5233 | 38.9176 | 0.5302 | | 10.3856 | 0.4896 | | 6011.077 | 5752.074 |
| reduced | 13.62416 | 28.86034 | 144.3961 | 0.515764 | 38.9176 | 0.522565 | 39.44017 | 10.3856 | 0.48255 | 10.86815 | 5924.517 | 5669.244 |
| rounded | 14 | 29 | 144 | 1 | | | 39 | | | 11 | 5925 | 5669 |
| Note: CO from Summer; all other values from Winter | | | | | | | | | | | | |

BMR VMT Adjustment per LUT-6 in CAPCOA quantification document

% VMT Reduction = 4% * Percentage of units in project that are deed-restricted BMR housing
 Emissions reductions for ROG are 60% of VMT reduction based on running/evaporative ratio
 0.04 - 1.20 percent reduction (implied no reduction beyond 30% of units)