

APPENDIX E: GREENHOUSE GAS EMISSIONS WORKSHEETS

2800 Casitas Avenue - Existing Conditions - South Coast AQMD Air District, Annual

2800 Casitas Avenue - Existing Conditions
South Coast AQMD Air District, Annual

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|------------------------|--------|----------|-------------|--------------------|------------|
| General Light Industry | 117.00 | 1000sqft | 5.70 | 117,000.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 12 | | | Operational Year | 2017 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 1227.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - 117,000 sf of existing light industrial facility with associated surface parking on 5.7-acre lot.

Construction Phase - IGNORE CONSTRUCTION EMISSIONS FOR EXISTING CONDITIONS SCENARIO.

Vehicle Trips - Existing trip rates adjusted based on Project Traffic Study.

Energy Use - Historical Title 24 assumed for Existing Conditions scenario.

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| Table Name | Column Name | Default Value | New Value |
|----------------------|----------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 44.00 |
| tblConstructionPhase | NumDays | 230.00 | 44.00 |
| tblConstructionPhase | PhaseEndDate | 8/22/2018 | 9/29/2017 |
| tblConstructionPhase | PhaseEndDate | 6/27/2018 | 8/1/2017 |
| tblConstructionPhase | PhaseStartDate | 7/26/2018 | 8/1/2017 |
| tblConstructionPhase | PhaseStartDate | 8/10/2017 | 6/1/2017 |
| tblEnergyUse | LightingElect | 3.85 | 3.10 |
| tblEnergyUse | T24E | 2.94 | 2.25 |
| tblEnergyUse | T24NG | 15.35 | 13.65 |
| tblLandUse | LotAcreage | 2.69 | 5.70 |
| tblVehicleTrips | ST_TR | 1.32 | 0.71 |
| tblVehicleTrips | SU_TR | 0.68 | 0.37 |
| tblVehicleTrips | WD_TR | 6.97 | 3.76 |

2.0 Emissions Summary

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| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|-----------|--|--|
| 1 | 6-1-2017 | 8-31-2017 | 1.0266 | 1.0266 |
| 2 | 9-1-2017 | 9-30-2017 | 0.2825 | 0.2825 |
| | | Highest | 1.0266 | 1.0266 |

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |
| Energy | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 836.3345 | 836.3345 | 0.0193 | 5.6100e-003 | 838.4864 |
| Mobile | 0.1750 | 0.9598 | 2.6296 | 7.4600e-003 | 0.5592 | 0.0101 | 0.5694 | 0.1499 | 9.5600e-003 | 0.1595 | 0.0000 | 685.8359 | 685.8359 | 0.0396 | 0.0000 | 686.8249 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 29.4499 | 0.0000 | 29.4499 | 1.7404 | 0.0000 | 72.9610 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.5837 | 196.2172 | 204.8009 | 0.8863 | 0.0218 | 233.4467 |
| Total | 0.6636 | 1.0636 | 2.7183 | 8.0800e-003 | 0.5592 | 0.0180 | 0.5773 | 0.1499 | 0.0175 | 0.1674 | 38.0336 | 1,718.3905 | 1,756.4242 | 2.6855 | 0.0274 | 1,831.7221 |

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2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |
| Energy | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 836.3345 | 836.3345 | 0.0193 | 5.6100e-003 | 838.4864 |
| Mobile | 0.1750 | 0.9598 | 2.6296 | 7.4600e-003 | 0.5592 | 0.0101 | 0.5694 | 0.1499 | 9.5600e-003 | 0.1595 | 0.0000 | 685.8359 | 685.8359 | 0.0396 | 0.0000 | 686.8249 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 29.4499 | 0.0000 | 29.4499 | 1.7404 | 0.0000 | 72.9610 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.5837 | 196.2172 | 204.8009 | 0.8863 | 0.0218 | 233.4467 |
| Total | 0.6636 | 1.0636 | 2.7183 | 8.0800e-003 | 0.5592 | 0.0180 | 0.5773 | 0.1499 | 0.0175 | 0.1674 | 38.0336 | 1,718.3905 | 1,756.4242 | 2.6855 | 0.0274 | 1,831.7221 |

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|------------------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | IGNORE Architectural Coating | Architectural Coating | 8/1/2017 | 9/29/2017 | 5 | 44 | |
| 2 | IGNORE Building Construction | Building Construction | 6/1/2017 | 8/1/2017 | 5 | 44 | |

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Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 0

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 175,500; Non-Residential Outdoor: 58,500; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------------------|---------------------------|--------|-------------|-------------|-------------|
| IGNORE Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| IGNORE Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| IGNORE Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| IGNORE Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| IGNORE Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| IGNORE Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

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 |
|------------------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| IGNORE Building Construction | 9 | 49.00 | 19.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| IGNORE Architectural Coating | 1 | 10.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

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3.2 IGNORE Architectural Coating - 2017

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.5423 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.3100e-003 | 0.0481 | 0.0411 | 7.0000e-005 | | 3.8100e-003 | 3.8100e-003 | | 3.8100e-003 | 3.8100e-003 | 0.0000 | 5.6172 | 5.6172 | 5.9000e-004 | 0.0000 | 5.6320 |
| Total | 0.5496 | 0.0481 | 0.0411 | 7.0000e-005 | | 3.8100e-003 | 3.8100e-003 | | 3.8100e-003 | 3.8100e-003 | 0.0000 | 5.6172 | 5.6172 | 5.9000e-004 | 0.0000 | 5.6320 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.3200e-003 | 1.1000e-003 | 0.0117 | 3.0000e-005 | 2.4100e-003 | 2.0000e-005 | 2.4300e-003 | 6.4000e-004 | 2.0000e-005 | 6.6000e-004 | 0.0000 | 2.3823 | 2.3823 | 9.0000e-005 | 0.0000 | 2.3846 |
| Total | 1.3200e-003 | 1.1000e-003 | 0.0117 | 3.0000e-005 | 2.4100e-003 | 2.0000e-005 | 2.4300e-003 | 6.4000e-004 | 2.0000e-005 | 6.6000e-004 | 0.0000 | 2.3823 | 2.3823 | 9.0000e-005 | 0.0000 | 2.3846 |

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3.2 IGNORE Architectural Coating - 2017

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.5423 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 7.3100e-003 | 0.0481 | 0.0411 | 7.0000e-005 | | 3.8100e-003 | 3.8100e-003 | | 3.8100e-003 | 3.8100e-003 | 0.0000 | 5.6172 | 5.6172 | 5.9000e-004 | 0.0000 | 5.6320 |
| Total | 0.5496 | 0.0481 | 0.0411 | 7.0000e-005 | | 3.8100e-003 | 3.8100e-003 | | 3.8100e-003 | 3.8100e-003 | 0.0000 | 5.6172 | 5.6172 | 5.9000e-004 | 0.0000 | 5.6320 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.3200e-003 | 1.1000e-003 | 0.0117 | 3.0000e-005 | 2.4100e-003 | 2.0000e-005 | 2.4300e-003 | 6.4000e-004 | 2.0000e-005 | 6.6000e-004 | 0.0000 | 2.3823 | 2.3823 | 9.0000e-005 | 0.0000 | 2.3846 |
| Total | 1.3200e-003 | 1.1000e-003 | 0.0117 | 3.0000e-005 | 2.4100e-003 | 2.0000e-005 | 2.4300e-003 | 6.4000e-004 | 2.0000e-005 | 6.6000e-004 | 0.0000 | 2.3823 | 2.3823 | 9.0000e-005 | 0.0000 | 2.3846 |

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3.3 IGNORE Building Construction - 2017

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0685 | 0.5842 | 0.4000 | 5.9000e-004 | | 0.0393 | 0.0393 | | 0.0369 | 0.0369 | 0.0000 | 52.9084 | 52.9084 | 0.0130 | 0.0000 | 53.2343 |
| Total | 0.0685 | 0.5842 | 0.4000 | 5.9000e-004 | | 0.0393 | 0.0393 | | 0.0369 | 0.0369 | 0.0000 | 52.9084 | 52.9084 | 0.0130 | 0.0000 | 53.2343 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0600e-003 | 0.0551 | 0.0148 | 1.1000e-004 | 2.6300e-003 | 4.7000e-004 | 3.1000e-003 | 7.6000e-004 | 4.5000e-004 | 1.2100e-003 | 0.0000 | 10.4738 | 10.4738 | 7.8000e-004 | 0.0000 | 10.4934 |
| Worker | 6.4500e-003 | 5.3800e-003 | 0.0574 | 1.3000e-004 | 0.0118 | 1.0000e-004 | 0.0119 | 3.1400e-003 | 9.0000e-005 | 3.2300e-003 | 0.0000 | 11.6734 | 11.6734 | 4.4000e-004 | 0.0000 | 11.6844 |
| Total | 8.5100e-003 | 0.0605 | 0.0721 | 2.4000e-004 | 0.0145 | 5.7000e-004 | 0.0150 | 3.9000e-003 | 5.4000e-004 | 4.4400e-003 | 0.0000 | 22.1472 | 22.1472 | 1.2200e-003 | 0.0000 | 22.1778 |

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3.3 IGNORE Building Construction - 2017

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0685 | 0.5842 | 0.4000 | 5.9000e-004 | | 0.0393 | 0.0393 | | 0.0369 | 0.0369 | 0.0000 | 52.9084 | 52.9084 | 0.0130 | 0.0000 | 53.2342 |
| Total | 0.0685 | 0.5842 | 0.4000 | 5.9000e-004 | | 0.0393 | 0.0393 | | 0.0369 | 0.0369 | 0.0000 | 52.9084 | 52.9084 | 0.0130 | 0.0000 | 53.2342 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 2.0600e-003 | 0.0551 | 0.0148 | 1.1000e-004 | 2.6300e-003 | 4.7000e-004 | 3.1000e-003 | 7.6000e-004 | 4.5000e-004 | 1.2100e-003 | 0.0000 | 10.4738 | 10.4738 | 7.8000e-004 | 0.0000 | 10.4934 |
| Worker | 6.4500e-003 | 5.3800e-003 | 0.0574 | 1.3000e-004 | 0.0118 | 1.0000e-004 | 0.0119 | 3.1400e-003 | 9.0000e-005 | 3.2300e-003 | 0.0000 | 11.6734 | 11.6734 | 4.4000e-004 | 0.0000 | 11.6844 |
| Total | 8.5100e-003 | 0.0605 | 0.0721 | 2.4000e-004 | 0.0145 | 5.7000e-004 | 0.0150 | 3.9000e-003 | 5.4000e-004 | 4.4400e-003 | 0.0000 | 22.1472 | 22.1472 | 1.2200e-003 | 0.0000 | 22.1778 |

4.0 Operational Detail - Mobile

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4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.1750 | 0.9598 | 2.6296 | 7.4600e-003 | 0.5592 | 0.0101 | 0.5694 | 0.1499 | 9.5600e-003 | 0.1595 | 0.0000 | 685.8359 | 685.8359 | 0.0396 | 0.0000 | 686.8249 |
| Unmitigated | 0.1750 | 0.9598 | 2.6296 | 7.4600e-003 | 0.5592 | 0.0101 | 0.5694 | 0.1499 | 9.5600e-003 | 0.1595 | 0.0000 | 685.8359 | 685.8359 | 0.0396 | 0.0000 | 686.8249 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|------------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| General Light Industry | 439.92 | 83.07 | 43.29 | 1,471,428 | 1,471,428 |
| Total | 439.92 | 83.07 | 43.29 | 1,471,428 | 1,471,428 |

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 |
| General Light Industry | 16.60 | 8.40 | 6.90 | 59.00 | 28.00 | 13.00 | 92 | 5 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| General Light Industry | 0.542123 | 0.045435 | 0.198009 | 0.129481 | 0.019131 | 0.005886 | 0.019249 | 0.030178 | 0.001920 | 0.002234 | 0.004581 | 0.000701 | 0.001073 |

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5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 723.3260 | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 723.3260 | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |
| NaturalGas Mitigated | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |
| NaturalGas Unmitigated | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 2.1177e+006 | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |
| Total | | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| General Light Industry | 2.1177e+006 | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |
| Total | | 0.0114 | 0.1038 | 0.0872 | 6.2000e-004 | | 7.8900e-003 | 7.8900e-003 | | 7.8900e-003 | 7.8900e-003 | 0.0000 | 113.0085 | 113.0085 | 2.1700e-003 | 2.0700e-003 | 113.6801 |

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5.3 Energy by Land Use - Electricity

Unmitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 1.2987e+006 | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |
| Total | | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| General Light Industry | 1.2987e+006 | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |
| Total | | 723.3260 | 0.0171 | 3.5300e-003 | 724.8063 |

6.0 Area Detail

6.1 Mitigation Measures Area

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|-------------|-------------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-------------|-------------|-------------|--------|-------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |
| Unmitigated | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0542 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.4228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.5000e-004 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |
| Total | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |

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6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|--------------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.0542 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.4228 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 1.5000e-004 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |
| Total | 0.4772 | 1.0000e-005 | 1.5200e-003 | 0.0000 | | 1.0000e-005 | 1.0000e-005 | | 1.0000e-005 | 1.0000e-005 | 0.0000 | 2.9000e-003 | 2.9000e-003 | 1.0000e-005 | 0.0000 | 3.1100e-003 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 204.8009 | 0.8863 | 0.0218 | 233.4467 |
| Unmitigated | 204.8009 | 0.8863 | 0.0218 | 233.4467 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 27.0562 / 0 | 204.8009 | 0.8863 | 0.0218 | 233.4467 |
| Total | | 204.8009 | 0.8863 | 0.0218 | 233.4467 |

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7.2 Water by Land Use**Mitigated**

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| General Light Industry | 27.0562 / 0 | 204.8009 | 0.8863 | 0.0218 | 233.4467 |
| Total | | 204.8009 | 0.8863 | 0.0218 | 233.4467 |

8.0 Waste Detail**8.1 Mitigation Measures Waste****Category/Year**

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 29.4499 | 1.7404 | 0.0000 | 72.9610 |
| Unmitigated | 29.4499 | 1.7404 | 0.0000 | 72.9610 |

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8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 145.08 | 29.4499 | 1.7404 | 0.0000 | 72.9610 |
| Total | | 29.4499 | 1.7404 | 0.0000 | 72.9610 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| General Light Industry | 145.08 | 29.4499 | 1.7404 | 0.0000 | 72.9610 |
| Total | | 29.4499 | 1.7404 | 0.0000 | 72.9610 |

9.0 Operational Offroad

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

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10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-------------------------------------|--------|---------------|-------------|--------------------|------------|
| General Office Building | 19.00 | 1000sqft | 0.00 | 19,000.00 | 0 |
| Unenclosed Parking with Elevator | 720.00 | Space | 0.00 | 288,000.00 | 0 |
| City Park | 0.97 | Acre | 0.00 | 42,000.00 | 0 |
| High Turnover (Sit Down Restaurant) | 3.00 | 1000sqft | 0.00 | 3,000.00 | 0 |
| Apartments Mid Rise | 419.00 | Dwelling Unit | 5.70 | 423,872.00 | 1370 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|---|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 31 |
| Climate Zone | 12 | | | Operational Year | 2023 |
| Utility Company | Los Angeles Department of Water & Power | | | | |
| CO2 Intensity (lb/MW hr) | 1227.89 | CH4 Intensity (lb/MW hr) | 0.029 | N2O Intensity (lb/MW hr) | 0.006 |

1.3 User Entered Comments & Non-Default Data

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Project Characteristics -

Land Use - Project Data per September 29, 2016 site plans. Land use code for park assumed for urban farm due to similarity in land uses.

Construction Phase - Approximate 30-month construction timeline.

Off-road Equipment - Equipment use on worst-case day.

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Off-road Equipment -

Trips and VMT - Haul trip length estimates 23 miles to Sunshine Canyon Landfill with 14 cy haul truck capacity.

Demolition - Demolish approx. 117,000 sf of existing building.

Grading - Approx. 3,000 cy asphalt export and 10,000 cy soil import and 10,000 cy soil export (20,000 cy total) on 5.7-acre lot.

Vehicle Trips - Trip rates adjusted based on Traffic Study and incorporates trip reductions (transit, internal)

Woodstoves - No woodstoves or fireplaces proposed.

Sequestration - 140 trees proposed on-site

Construction Off-road Equipment Mitigation -

Area Mitigation -

Energy Mitigation -

Water Mitigation -

Waste Mitigation -

Stationary Sources - Emergency Generators and Fire Pumps -

| Table Name | Column Name | Default Value | New Value |
|----------------------|-------------|---------------|-----------|
| tblConstructionPhase | NumDays | 20.00 | 88.00 |
| tblConstructionPhase | NumDays | 230.00 | 434.00 |
| tblConstructionPhase | NumDays | 20.00 | 22.00 |
| tblConstructionPhase | NumDays | 20.00 | 44.00 |
| tblConstructionPhase | NumDays | 20.00 | 44.00 |

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| | | | |
|---------------------------------|----------------------------|------------|------------|
| tblConstructionPhase | NumDays | 10.00 | 22.00 |
| tblFireplaces | FireplaceDayYear | 25.00 | 0.00 |
| tblFireplaces | FireplaceHourDay | 3.00 | 0.00 |
| tblFireplaces | FireplaceWoodMass | 1,019.20 | 0.00 |
| tblFireplaces | NumberGas | 356.15 | 0.00 |
| tblFireplaces | NumberNoFireplace | 41.90 | 0.00 |
| tblFireplaces | NumberWood | 20.95 | 0.00 |
| tblGrading | AcresOfGrading | 22.00 | 5.70 |
| tblGrading | AcresOfGrading | 0.00 | 5.70 |
| tblGrading | MaterialExported | 0.00 | 10,000.00 |
| tblGrading | MaterialExported | 0.00 | 3,000.00 |
| tblGrading | MaterialImported | 0.00 | 10,000.00 |
| tblLandUse | LandUseSquareFeet | 42,253.20 | 42,000.00 |
| tblLandUse | LandUseSquareFeet | 419,000.00 | 423,872.00 |
| tblLandUse | LotAcreage | 0.44 | 0.00 |
| tblLandUse | LotAcreage | 6.48 | 0.00 |
| tblLandUse | LotAcreage | 0.97 | 0.00 |
| tblLandUse | LotAcreage | 0.07 | 0.00 |
| tblLandUse | LotAcreage | 11.03 | 5.70 |
| tblLandUse | Population | 1,198.00 | 1,370.00 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 1.00 | 6.00 |
| tblSequestration | NumberOfNewTrees | 0.00 | 140.00 |
| tblStationaryGeneratorsPumpsUse | HorsePowerValue | 0.00 | 1,000.00 |
| tblStationaryGeneratorsPumpsUse | HoursPerDay | 0.00 | 0.50 |
| tblStationaryGeneratorsPumpsUse | HoursPerYear | 0.00 | 12.00 |
| tblStationaryGeneratorsPumpsUse | NumberOfEquipment | 0.00 | 4.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 23.00 |

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| | | | |
|-----------------|--------------------|----------|----------|
| tblTripsAndVMT | HaulingTripLength | 20.00 | 23.00 |
| tblTripsAndVMT | HaulingTripLength | 20.00 | 23.00 |
| tblTripsAndVMT | HaulingTripNumber | 1,978.00 | 2,857.00 |
| tblVehicleTrips | ST_TR | 6.39 | 6.07 |
| tblVehicleTrips | ST_TR | 22.75 | 80.40 |
| tblVehicleTrips | ST_TR | 2.46 | 2.22 |
| tblVehicleTrips | ST_TR | 158.37 | 31.97 |
| tblVehicleTrips | SU_TR | 5.86 | 5.57 |
| tblVehicleTrips | SU_TR | 16.74 | 80.40 |
| tblVehicleTrips | SU_TR | 1.05 | 0.95 |
| tblVehicleTrips | SU_TR | 131.84 | 26.62 |
| tblVehicleTrips | WD_TR | 6.65 | 6.32 |
| tblVehicleTrips | WD_TR | 1.89 | 80.40 |
| tblVehicleTrips | WD_TR | 11.03 | 9.95 |
| tblVehicleTrips | WD_TR | 127.15 | 25.67 |
| tblWoodstoves | NumberCatalytic | 20.95 | 0.00 |
| tblWoodstoves | NumberNoncatalytic | 20.95 | 0.00 |
| tblWoodstoves | WoodstoveDayYear | 25.00 | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 999.60 | 0.00 |

2.0 Emissions Summary

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2.1 Overall Construction

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.3469 | 3.3868 | 2.5854 | 7.2200e-003 | 0.6229 | 0.1332 | 0.7561 | 0.2528 | 0.1252 | 0.3780 | 0.0000 | 659.6147 | 659.6147 | 0.0866 | 0.0000 | 661.7791 |
| 2021 | 0.6680 | 4.8196 | 5.8234 | 0.0153 | 0.7253 | 0.1918 | 0.9171 | 0.1946 | 0.1837 | 0.3783 | 0.0000 | 1,373.8328 | 1,373.8328 | 0.1254 | 0.0000 | 1,376.9686 |
| 2022 | 1.8191 | 2.4901 | 3.3377 | 8.0200e-003 | 0.3444 | 0.1028 | 0.4472 | 0.0923 | 0.0989 | 0.1911 | 0.0000 | 717.8574 | 717.8574 | 0.0739 | 0.0000 | 719.7051 |
| Maximum | 1.8191 | 4.8196 | 5.8234 | 0.0153 | 0.7253 | 0.1918 | 0.9171 | 0.2528 | 0.1837 | 0.3783 | 0.0000 | 1,373.8328 | 1,373.8328 | 0.1254 | 0.0000 | 1,376.9686 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | tons/yr | | | | | | | | | | MT/yr | | | | | |
| 2020 | 0.3469 | 3.3868 | 2.5854 | 7.2200e-003 | 0.4057 | 0.1332 | 0.5390 | 0.1475 | 0.1252 | 0.2727 | 0.0000 | 659.6144 | 659.6144 | 0.0866 | 0.0000 | 661.7788 |
| 2021 | 0.6680 | 4.8196 | 5.8234 | 0.0153 | 0.7253 | 0.1918 | 0.9171 | 0.1946 | 0.1837 | 0.3783 | 0.0000 | 1,373.8322 | 1,373.8322 | 0.1254 | 0.0000 | 1,376.9680 |
| 2022 | 1.8191 | 2.4901 | 3.3377 | 8.0200e-003 | 0.3444 | 0.1028 | 0.4472 | 0.0923 | 0.0989 | 0.1911 | 0.0000 | 717.8570 | 717.8570 | 0.0739 | 0.0000 | 719.7047 |
| Maximum | 1.8191 | 4.8196 | 5.8234 | 0.0153 | 0.7253 | 0.1918 | 0.9171 | 0.1946 | 0.1837 | 0.3783 | 0.0000 | 1,373.8322 | 1,373.8322 | 0.1254 | 0.0000 | 1,376.9680 |

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------|------|------|------|------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------|-----------|------|------|------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 12.83 | 0.00 | 10.24 | 19.51 | 0.00 | 11.11 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|------------|--|--|
| 1 | 6-1-2020 | 8-31-2020 | 1.6428 | 1.6428 |
| 2 | 9-1-2020 | 11-30-2020 | 1.5309 | 1.5309 |
| 3 | 12-1-2020 | 2-28-2021 | 1.3981 | 1.3981 |
| 4 | 3-1-2021 | 5-31-2021 | 1.3756 | 1.3756 |
| 5 | 6-1-2021 | 8-31-2021 | 1.3726 | 1.3726 |
| 6 | 9-1-2021 | 11-30-2021 | 1.3636 | 1.3636 |
| 7 | 12-1-2021 | 2-28-2022 | 1.2789 | 1.2789 |
| 8 | 3-1-2022 | 5-31-2022 | 1.2628 | 1.2628 |
| 9 | 6-1-2022 | 8-31-2022 | 0.7531 | 0.7531 |
| 10 | 9-1-2022 | 9-30-2022 | 0.4802 | 0.4802 |
| | | Highest | 1.6428 | 1.6428 |

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2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |
| Energy | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 1,761.3485 | 1,761.3485 | 0.0403 | 0.0126 | 1,766.0946 |
| Mobile | 0.7690 | 3.7555 | 10.5696 | 0.0422 | 3.6633 | 0.0299 | 3.6932 | 0.9816 | 0.0278 | 1.0094 | 0.0000 | 3,905.6096 | 3,905.6096 | 0.1762 | 0.0000 | 3,910.0133 |
| Stationary | 0.0394 | 0.1761 | 0.1004 | 1.9000e-004 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 18.2783 | 18.2783 | 2.5600e-003 | 0.0000 | 18.3423 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 49.9744 | 0.0000 | 49.9744 | 2.9534 | 0.0000 | 123.8093 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 10.0211 | 355.8904 | 365.9116 | 1.0377 | 0.0260 | 399.6139 |
| Total | 2.7460 | 4.2371 | 15.1283 | 0.0443 | 3.6633 | 0.0801 | 3.7434 | 0.9816 | 0.0780 | 1.0596 | 59.9955 | 6,048.2035 | 6,108.1989 | 4.2169 | 0.0386 | 6,225.1211 |

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2.2 Overall Operational

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Area | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |
| Energy | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 1,736.5747 | 1,736.5747 | 0.0397 | 0.0124 | 1,741.2702 |
| Mobile | 0.7690 | 3.7555 | 10.5696 | 0.0422 | 3.6633 | 0.0299 | 3.6932 | 0.9816 | 0.0278 | 1.0094 | 0.0000 | 3,905.6096 | 3,905.6096 | 0.1762 | 0.0000 | 3,910.0133 |
| Stationary | 0.0394 | 0.1761 | 0.1004 | 1.9000e-004 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 18.2783 | 18.2783 | 2.5600e-003 | 0.0000 | 18.3423 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 12.4936 | 0.0000 | 12.4936 | 0.7384 | 0.0000 | 30.9523 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 8.0169 | 284.7123 | 292.7292 | 0.8301 | 0.0208 | 319.6911 |
| Total | 2.7460 | 4.2371 | 15.1283 | 0.0443 | 3.6633 | 0.0801 | 3.7434 | 0.9816 | 0.0780 | 1.0596 | 20.5105 | 5,952.2516 | 5,972.7621 | 1.7938 | 0.0333 | 6,027.5169 |

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------------------|-------------|-------------|-------------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|--------------|-------------|-------------|--------------|--------------|-------------|
| Percent Reduction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 65.81 | 1.59 | 2.22 | 57.46 | 13.81 | 3.17 |

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2.3 Vegetation

Vegetation

| | |
|--------------|----------------|
| | CO2e |
| Category | MT |
| New Trees | 99.1200 |
| Total | 99.1200 |

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 | 6/1/2020 | 6/30/2020 | 5 | 22 | |
| 2 | Site Preparation | Site Preparation | 7/1/2020 | 7/30/2020 | 5 | 22 | |
| 3 | Grading | Grading | 7/31/2020 | 9/30/2020 | 5 | 44 | |
| 4 | Building Construction | Building Construction | 10/1/2020 | 5/31/2022 | 5 | 434 | |
| 5 | Paving | Paving | 6/1/2022 | 8/1/2022 | 5 | 44 | |
| 6 | Architectural Coating | Architectural Coating | 8/2/2022 | 12/1/2022 | 5 | 88 | |

Acres of Grading (Site Preparation Phase): 5.7

Acres of Grading (Grading Phase): 5.7

Acres of Paving: 0

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Residential Indoor: 858,341; Residential Outdoor: 286,114; Non-Residential Indoor: 33,000; Non-Residential Outdoor: 11,000; Striped Parking Area: 17,280 (Architectural Coating – sqft)

OffRoad Equipment

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| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Demolition | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Demolition | Excavators | 3 | 8.00 | 158 | 0.38 |
| Demolition | Rubber Tired Dozers | 2 | 8.00 | 247 | 0.40 |
| Site Preparation | Concrete/Industrial Saws | 1 | 8.00 | 81 | 0.73 |
| Site Preparation | Excavators | 1 | 8.00 | 158 | 0.38 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 1 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Tractors/Loaders/Backhoes | 3 | 8.00 | 97 | 0.37 |
| Building Construction | Aerial Lifts | 1 | 8.00 | 63 | 0.31 |
| Building Construction | Air Compressors | 2 | 8.00 | 78 | 0.48 |
| Building Construction | Cement and Mortar Mixers | 1 | 8.00 | 9 | 0.56 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Pumps | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Architectural Coating | Aerial Lifts | 2 | 8.00 | 63 | 0.31 |
| Architectural Coating | Air Compressors | 6 | 6.00 | 78 | 0.48 |

Trips and VMT

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| 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 | 6 | 15.00 | 0.00 | 532.00 | 14.70 | 6.90 | 23.00 | LD_Mix | HDT_Mix | HHDT |
| Site Preparation | 9 | 23.00 | 0.00 | 297.00 | 14.70 | 6.90 | 23.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 6 | 15.00 | 0.00 | 2,857.00 | 14.70 | 6.90 | 23.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 14 | 448.00 | 102.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 8 | 90.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

3.2 Demolition - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0576 | 0.0000 | 0.0576 | 8.7200e-003 | 0.0000 | 8.7200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0364 | 0.3652 | 0.2393 | 4.3000e-004 | | 0.0183 | 0.0183 | | 0.0170 | 0.0170 | 0.0000 | 37.3985 | 37.3985 | 0.0106 | 0.0000 | 37.6624 |
| Total | 0.0364 | 0.3652 | 0.2393 | 4.3000e-004 | 0.0576 | 0.0183 | 0.0758 | 8.7200e-003 | 0.0170 | 0.0257 | 0.0000 | 37.3985 | 37.3985 | 0.0106 | 0.0000 | 37.6624 |

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3.2 Demolition - 2020

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 2.2800e-003 | 0.0820 | 0.0166 | 2.3000e-004 | 5.2600e-003 | 2.7000e-004 | 5.5300e-003 | 1.4400e-003 | 2.6000e-004 | 1.7000e-003 | 0.0000 | 22.6719 | 22.6719 | 1.5200e-003 | 0.0000 | 22.7099 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.4000e-004 | 5.6000e-004 | 6.2500e-003 | 2.0000e-005 | 1.8100e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6297 | 1.6297 | 5.0000e-005 | 0.0000 | 1.6308 |
| Total | 3.0200e-003 | 0.0826 | 0.0228 | 2.5000e-004 | 7.0700e-003 | 2.8000e-004 | 7.3500e-003 | 1.9200e-003 | 2.7000e-004 | 2.1900e-003 | 0.0000 | 24.3016 | 24.3016 | 1.5700e-003 | 0.0000 | 24.3407 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0259 | 0.0000 | 0.0259 | 3.9200e-003 | 0.0000 | 3.9200e-003 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0364 | 0.3652 | 0.2393 | 4.3000e-004 | | 0.0183 | 0.0183 | | 0.0170 | 0.0170 | 0.0000 | 37.3984 | 37.3984 | 0.0106 | 0.0000 | 37.6624 |
| Total | 0.0364 | 0.3652 | 0.2393 | 4.3000e-004 | 0.0259 | 0.0183 | 0.0442 | 3.9200e-003 | 0.0170 | 0.0209 | 0.0000 | 37.3984 | 37.3984 | 0.0106 | 0.0000 | 37.6624 |

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3.2 Demolition - 2020

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 2.2800e-003 | 0.0820 | 0.0166 | 2.3000e-004 | 5.2600e-003 | 2.7000e-004 | 5.5300e-003 | 1.4400e-003 | 2.6000e-004 | 1.7000e-003 | 0.0000 | 22.6719 | 22.6719 | 1.5200e-003 | 0.0000 | 22.7099 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 7.4000e-004 | 5.6000e-004 | 6.2500e-003 | 2.0000e-005 | 1.8100e-003 | 1.0000e-005 | 1.8200e-003 | 4.8000e-004 | 1.0000e-005 | 4.9000e-004 | 0.0000 | 1.6297 | 1.6297 | 5.0000e-005 | 0.0000 | 1.6308 |
| Total | 3.0200e-003 | 0.0826 | 0.0228 | 2.5000e-004 | 7.0700e-003 | 2.8000e-004 | 7.3500e-003 | 1.9200e-003 | 2.7000e-004 | 2.1900e-003 | 0.0000 | 24.3016 | 24.3016 | 1.5700e-003 | 0.0000 | 24.3407 |

3.3 Site Preparation - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.2018 | 0.0000 | 0.2018 | 0.1096 | 0.0000 | 0.1096 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0521 | 0.5294 | 0.3132 | 5.4000e-004 | | 0.0276 | 0.0276 | | 0.0256 | 0.0256 | 0.0000 | 47.6787 | 47.6787 | 0.0139 | 0.0000 | 48.0257 |
| Total | 0.0521 | 0.5294 | 0.3132 | 5.4000e-004 | 0.2018 | 0.0276 | 0.2294 | 0.1096 | 0.0256 | 0.1352 | 0.0000 | 47.6787 | 47.6787 | 0.0139 | 0.0000 | 48.0257 |

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3.3 Site Preparation - 2020

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.2700e-003 | 0.0458 | 9.2600e-003 | 1.3000e-004 | 2.9400e-003 | 1.5000e-004 | 3.0900e-003 | 8.1000e-004 | 1.4000e-004 | 9.5000e-004 | 0.0000 | 12.6571 | 12.6571 | 8.5000e-004 | 0.0000 | 12.6783 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1300e-003 | 8.7000e-004 | 9.5800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 2.4988 | 2.4988 | 7.0000e-005 | 0.0000 | 2.5006 |
| Total | 2.4000e-003 | 0.0467 | 0.0188 | 1.6000e-004 | 5.7200e-003 | 1.7000e-004 | 5.8900e-003 | 1.5500e-003 | 1.6000e-004 | 1.7100e-003 | 0.0000 | 15.1559 | 15.1559 | 9.2000e-004 | 0.0000 | 15.1789 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0908 | 0.0000 | 0.0908 | 0.0493 | 0.0000 | 0.0493 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0521 | 0.5294 | 0.3132 | 5.4000e-004 | | 0.0276 | 0.0276 | | 0.0256 | 0.0256 | 0.0000 | 47.6786 | 47.6786 | 0.0139 | 0.0000 | 48.0257 |
| Total | 0.0521 | 0.5294 | 0.3132 | 5.4000e-004 | 0.0908 | 0.0276 | 0.1184 | 0.0493 | 0.0256 | 0.0749 | 0.0000 | 47.6786 | 47.6786 | 0.0139 | 0.0000 | 48.0257 |

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3.3 Site Preparation - 2020

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 1.2700e-003 | 0.0458 | 9.2600e-003 | 1.3000e-004 | 2.9400e-003 | 1.5000e-004 | 3.0900e-003 | 8.1000e-004 | 1.4000e-004 | 9.5000e-004 | 0.0000 | 12.6571 | 12.6571 | 8.5000e-004 | 0.0000 | 12.6783 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.1300e-003 | 8.7000e-004 | 9.5800e-003 | 3.0000e-005 | 2.7800e-003 | 2.0000e-005 | 2.8000e-003 | 7.4000e-004 | 2.0000e-005 | 7.6000e-004 | 0.0000 | 2.4988 | 2.4988 | 7.0000e-005 | 0.0000 | 2.5006 |
| Total | 2.4000e-003 | 0.0467 | 0.0188 | 1.6000e-004 | 5.7200e-003 | 1.7000e-004 | 5.8900e-003 | 1.5500e-003 | 1.6000e-004 | 1.7100e-003 | 0.0000 | 15.1559 | 15.1559 | 9.2000e-004 | 0.0000 | 15.1789 |

3.4 Grading - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.1355 | 0.0000 | 0.1355 | 0.0732 | 0.0000 | 0.0732 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0534 | 0.5805 | 0.3532 | 6.5000e-004 | | 0.0280 | 0.0280 | | 0.0258 | 0.0258 | 0.0000 | 57.3292 | 57.3292 | 0.0185 | 0.0000 | 57.7928 |
| Total | 0.0534 | 0.5805 | 0.3532 | 6.5000e-004 | 0.1355 | 0.0280 | 0.1635 | 0.0732 | 0.0258 | 0.0989 | 0.0000 | 57.3292 | 57.3292 | 0.0185 | 0.0000 | 57.7928 |

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3.4 Grading - 2020

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0122 | 0.4404 | 0.0891 | 1.2400e-003 | 0.0282 | 1.4400e-003 | 0.0297 | 7.7500e-003 | 1.3800e-003 | 9.1300e-003 | 0.0000 | 121.7552 | 121.7552 | 8.1600e-003 | 0.0000 | 121.9591 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4700e-003 | 1.1300e-003 | 0.0125 | 4.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 3.0000e-005 | 9.9000e-004 | 0.0000 | 3.2593 | 3.2593 | 9.0000e-005 | 0.0000 | 3.2616 |
| Total | 0.0137 | 0.4415 | 0.1016 | 1.2800e-003 | 0.0319 | 1.4700e-003 | 0.0333 | 8.7100e-003 | 1.4100e-003 | 0.0101 | 0.0000 | 125.0145 | 125.0145 | 8.2500e-003 | 0.0000 | 125.2207 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Fugitive Dust | | | | | 0.0610 | 0.0000 | 0.0610 | 0.0329 | 0.0000 | 0.0329 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0534 | 0.5805 | 0.3532 | 6.5000e-004 | | 0.0280 | 0.0280 | | 0.0258 | 0.0258 | 0.0000 | 57.3292 | 57.3292 | 0.0185 | 0.0000 | 57.7927 |
| Total | 0.0534 | 0.5805 | 0.3532 | 6.5000e-004 | 0.0610 | 0.0280 | 0.0890 | 0.0329 | 0.0258 | 0.0587 | 0.0000 | 57.3292 | 57.3292 | 0.0185 | 0.0000 | 57.7927 |

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3.4 Grading - 2020

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0122 | 0.4404 | 0.0891 | 1.2400e-003 | 0.0282 | 1.4400e-003 | 0.0297 | 7.7500e-003 | 1.3800e-003 | 9.1300e-003 | 0.0000 | 121.7552 | 121.7552 | 8.1600e-003 | 0.0000 | 121.9591 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.4700e-003 | 1.1300e-003 | 0.0125 | 4.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 3.0000e-005 | 9.9000e-004 | 0.0000 | 3.2593 | 3.2593 | 9.0000e-005 | 0.0000 | 3.2616 |
| Total | 0.0137 | 0.4415 | 0.1016 | 1.2800e-003 | 0.0319 | 1.4700e-003 | 0.0333 | 8.7100e-003 | 1.4100e-003 | 0.0101 | 0.0000 | 125.0145 | 125.0145 | 8.2500e-003 | 0.0000 | 125.2207 |

3.5 Building Construction - 2020

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1085 | 0.9312 | 0.8876 | 1.4500e-003 | | 0.0544 | 0.0544 | | 0.0522 | 0.0522 | 0.0000 | 123.9325 | 123.9325 | 0.0232 | 0.0000 | 124.5133 |
| Total | 0.1085 | 0.9312 | 0.8876 | 1.4500e-003 | | 0.0544 | 0.0544 | | 0.0522 | 0.0522 | 0.0000 | 123.9325 | 123.9325 | 0.0232 | 0.0000 | 124.5133 |

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3.5 Building Construction - 2020

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0113 | 0.3592 | 0.0890 | 8.6000e-004 | 0.0212 | 1.7600e-003 | 0.0230 | 6.1200e-003 | 1.6800e-003 | 7.8100e-003 | 0.0000 | 82.7874 | 82.7874 | 5.4300e-003 | 0.0000 | 82.9233 |
| Worker | 0.0660 | 0.0506 | 0.5599 | 1.6200e-003 | 0.1622 | 1.2500e-003 | 0.1635 | 0.0431 | 1.1500e-003 | 0.0442 | 0.0000 | 146.0165 | 146.0165 | 4.1900e-003 | 0.0000 | 146.1213 |
| Total | 0.0773 | 0.4098 | 0.6489 | 2.4800e-003 | 0.1834 | 3.0100e-003 | 0.1864 | 0.0492 | 2.8300e-003 | 0.0520 | 0.0000 | 228.8040 | 228.8040 | 9.6200e-003 | 0.0000 | 229.0446 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1085 | 0.9312 | 0.8876 | 1.4500e-003 | | 0.0544 | 0.0544 | | 0.0522 | 0.0522 | 0.0000 | 123.9323 | 123.9323 | 0.0232 | 0.0000 | 124.5131 |
| Total | 0.1085 | 0.9312 | 0.8876 | 1.4500e-003 | | 0.0544 | 0.0544 | | 0.0522 | 0.0522 | 0.0000 | 123.9323 | 123.9323 | 0.0232 | 0.0000 | 124.5131 |

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3.5 Building Construction - 2020

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0113 | 0.3592 | 0.0890 | 8.6000e-004 | 0.0212 | 1.7600e-003 | 0.0230 | 6.1200e-003 | 1.6800e-003 | 7.8100e-003 | 0.0000 | 82.7874 | 82.7874 | 5.4300e-003 | 0.0000 | 82.9233 |
| Worker | 0.0660 | 0.0506 | 0.5599 | 1.6200e-003 | 0.1622 | 1.2500e-003 | 0.1635 | 0.0431 | 1.1500e-003 | 0.0442 | 0.0000 | 146.0165 | 146.0165 | 4.1900e-003 | 0.0000 | 146.1213 |
| Total | 0.0773 | 0.4098 | 0.6489 | 2.4800e-003 | 0.1834 | 3.0100e-003 | 0.1864 | 0.0492 | 2.8300e-003 | 0.0520 | 0.0000 | 228.8040 | 228.8040 | 9.6200e-003 | 0.0000 | 229.0446 |

3.5 Building Construction - 2021

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.3865 | 3.3516 | 3.4667 | 5.7200e-003 | | 0.1844 | 0.1844 | | 0.1768 | 0.1768 | 0.0000 | 490.1323 | 490.1323 | 0.0899 | 0.0000 | 492.3797 |
| Total | 0.3865 | 3.3516 | 3.4667 | 5.7200e-003 | | 0.1844 | 0.1844 | | 0.1768 | 0.1768 | 0.0000 | 490.1323 | 490.1323 | 0.0899 | 0.0000 | 492.3797 |

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3.5 Building Construction - 2021

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0379 | 1.2880 | 0.3193 | 3.3600e-003 | 0.0839 | 2.5900e-003 | 0.0865 | 0.0242 | 2.4800e-003 | 0.0267 | 0.0000 | 324.9834 | 324.9834 | 0.0206 | 0.0000 | 325.4972 |
| Worker | 0.2437 | 0.1801 | 2.0374 | 6.1800e-003 | 0.6414 | 4.8100e-003 | 0.6462 | 0.1704 | 4.4300e-003 | 0.1748 | 0.0000 | 558.7171 | 558.7171 | 0.0150 | 0.0000 | 559.0917 |
| Total | 0.2816 | 1.4681 | 2.3567 | 9.5400e-003 | 0.7253 | 7.4000e-003 | 0.7327 | 0.1946 | 6.9100e-003 | 0.2015 | 0.0000 | 883.7005 | 883.7005 | 0.0355 | 0.0000 | 884.5889 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.3865 | 3.3516 | 3.4667 | 5.7200e-003 | | 0.1844 | 0.1844 | | 0.1768 | 0.1768 | 0.0000 | 490.1317 | 490.1317 | 0.0899 | 0.0000 | 492.3791 |
| Total | 0.3865 | 3.3516 | 3.4667 | 5.7200e-003 | | 0.1844 | 0.1844 | | 0.1768 | 0.1768 | 0.0000 | 490.1317 | 490.1317 | 0.0899 | 0.0000 | 492.3791 |

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3.5 Building Construction - 2021

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0379 | 1.2880 | 0.3193 | 3.3600e-003 | 0.0839 | 2.5900e-003 | 0.0865 | 0.0242 | 2.4800e-003 | 0.0267 | 0.0000 | 324.9834 | 324.9834 | 0.0206 | 0.0000 | 325.4972 |
| Worker | 0.2437 | 0.1801 | 2.0374 | 6.1800e-003 | 0.6414 | 4.8100e-003 | 0.6462 | 0.1704 | 4.4300e-003 | 0.1748 | 0.0000 | 558.7171 | 558.7171 | 0.0150 | 0.0000 | 559.0917 |
| Total | 0.2816 | 1.4681 | 2.3567 | 9.5400e-003 | 0.7253 | 7.4000e-003 | 0.7327 | 0.1946 | 6.9100e-003 | 0.2015 | 0.0000 | 883.7005 | 883.7005 | 0.0355 | 0.0000 | 884.5889 |

3.5 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1444 | 1.2449 | 1.4089 | 2.3400e-003 | | 0.0646 | 0.0646 | | 0.0620 | 0.0620 | 0.0000 | 200.9825 | 200.9825 | 0.0364 | 0.0000 | 201.8930 |
| Total | 0.1444 | 1.2449 | 1.4089 | 2.3400e-003 | | 0.0646 | 0.0646 | | 0.0620 | 0.0620 | 0.0000 | 200.9825 | 200.9825 | 0.0364 | 0.0000 | 201.8930 |

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3.5 Building Construction - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0146 | 0.5007 | 0.1237 | 1.3600e-003 | 0.0344 | 9.2000e-004 | 0.0353 | 9.9200e-003 | 8.8000e-004 | 0.0108 | 0.0000 | 132.0577 | 132.0577 | 8.1100e-003 | 0.0000 | 132.2604 |
| Worker | 0.0938 | 0.0667 | 0.7712 | 2.4400e-003 | 0.2630 | 1.9200e-003 | 0.2649 | 0.0698 | 1.7600e-003 | 0.0716 | 0.0000 | 220.8404 | 220.8404 | 5.5500e-003 | 0.0000 | 220.9791 |
| Total | 0.1084 | 0.5674 | 0.8950 | 3.8000e-003 | 0.2974 | 2.8400e-003 | 0.3002 | 0.0798 | 2.6400e-003 | 0.0824 | 0.0000 | 352.8981 | 352.8981 | 0.0137 | 0.0000 | 353.2395 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1444 | 1.2449 | 1.4089 | 2.3400e-003 | | 0.0646 | 0.0646 | | 0.0620 | 0.0620 | 0.0000 | 200.9822 | 200.9822 | 0.0364 | 0.0000 | 201.8928 |
| Total | 0.1444 | 1.2449 | 1.4089 | 2.3400e-003 | | 0.0646 | 0.0646 | | 0.0620 | 0.0620 | 0.0000 | 200.9822 | 200.9822 | 0.0364 | 0.0000 | 201.8928 |

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3.5 Building Construction - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0146 | 0.5007 | 0.1237 | 1.3600e-003 | 0.0344 | 9.2000e-004 | 0.0353 | 9.9200e-003 | 8.8000e-004 | 0.0108 | 0.0000 | 132.0577 | 132.0577 | 8.1100e-003 | 0.0000 | 132.2604 |
| Worker | 0.0938 | 0.0667 | 0.7712 | 2.4400e-003 | 0.2630 | 1.9200e-003 | 0.2649 | 0.0698 | 1.7600e-003 | 0.0716 | 0.0000 | 220.8404 | 220.8404 | 5.5500e-003 | 0.0000 | 220.9791 |
| Total | 0.1084 | 0.5674 | 0.8950 | 3.8000e-003 | 0.2974 | 2.8400e-003 | 0.3002 | 0.0798 | 2.6400e-003 | 0.0824 | 0.0000 | 352.8981 | 352.8981 | 0.0137 | 0.0000 | 353.2395 |

3.6 Paving - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0243 | 0.2448 | 0.3208 | 5.0000e-004 | | 0.0125 | 0.0125 | | 0.0115 | 0.0115 | 0.0000 | 44.0606 | 44.0606 | 0.0143 | 0.0000 | 44.4169 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0243 | 0.2448 | 0.3208 | 5.0000e-004 | | 0.0125 | 0.0125 | | 0.0115 | 0.0115 | 0.0000 | 44.0606 | 44.0606 | 0.0143 | 0.0000 | 44.4169 |

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3.6 Paving - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2900e-003 | 9.2000e-004 | 0.0106 | 3.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 2.0000e-005 | 9.9000e-004 | 0.0000 | 3.0406 | 3.0406 | 8.0000e-005 | 0.0000 | 3.0425 |
| Total | 1.2900e-003 | 9.2000e-004 | 0.0106 | 3.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 2.0000e-005 | 9.9000e-004 | 0.0000 | 3.0406 | 3.0406 | 8.0000e-005 | 0.0000 | 3.0425 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0243 | 0.2448 | 0.3208 | 5.0000e-004 | | 0.0125 | 0.0125 | | 0.0115 | 0.0115 | 0.0000 | 44.0606 | 44.0606 | 0.0143 | 0.0000 | 44.4168 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0243 | 0.2448 | 0.3208 | 5.0000e-004 | | 0.0125 | 0.0125 | | 0.0115 | 0.0115 | 0.0000 | 44.0606 | 44.0606 | 0.0143 | 0.0000 | 44.4168 |

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3.6 Paving - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|---------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.2900e-003 | 9.2000e-004 | 0.0106 | 3.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 2.0000e-005 | 9.9000e-004 | 0.0000 | 3.0406 | 3.0406 | 8.0000e-005 | 0.0000 | 3.0425 |
| Total | 1.2900e-003 | 9.2000e-004 | 0.0106 | 3.0000e-005 | 3.6200e-003 | 3.0000e-005 | 3.6500e-003 | 9.6000e-004 | 2.0000e-005 | 9.9000e-004 | 0.0000 | 3.0406 | 3.0406 | 8.0000e-005 | 0.0000 | 3.0425 |

3.7 Architectural Coating - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.4682 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0572 | 0.4211 | 0.5751 | 9.3000e-004 | | 0.0225 | 0.0225 | | 0.0224 | 0.0224 | 0.0000 | 80.3882 | 80.3882 | 8.5900e-003 | 0.0000 | 80.6029 |
| Total | 1.5253 | 0.4211 | 0.5751 | 9.3000e-004 | | 0.0225 | 0.0225 | | 0.0224 | 0.0224 | 0.0000 | 80.3882 | 80.3882 | 8.5900e-003 | 0.0000 | 80.6029 |

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3.7 Architectural Coating - 2022

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0155 | 0.0110 | 0.1274 | 4.0000e-004 | 0.0435 | 3.2000e-004 | 0.0438 | 0.0115 | 2.9000e-004 | 0.0118 | 0.0000 | 36.4873 | 36.4873 | 9.2000e-004 | 0.0000 | 36.5102 |
| Total | 0.0155 | 0.0110 | 0.1274 | 4.0000e-004 | 0.0435 | 3.2000e-004 | 0.0438 | 0.0115 | 2.9000e-004 | 0.0118 | 0.0000 | 36.4873 | 36.4873 | 9.2000e-004 | 0.0000 | 36.5102 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 1.4682 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0572 | 0.4211 | 0.5751 | 9.3000e-004 | | 0.0225 | 0.0225 | | 0.0224 | 0.0224 | 0.0000 | 80.3881 | 80.3881 | 8.5900e-003 | 0.0000 | 80.6028 |
| Total | 1.5253 | 0.4211 | 0.5751 | 9.3000e-004 | | 0.0225 | 0.0225 | | 0.0224 | 0.0224 | 0.0000 | 80.3881 | 80.3881 | 8.5900e-003 | 0.0000 | 80.6028 |

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3.7 Architectural Coating - 2022

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 0.0155 | 0.0110 | 0.1274 | 4.0000e-004 | 0.0435 | 3.2000e-004 | 0.0438 | 0.0115 | 2.9000e-004 | 0.0118 | 0.0000 | 36.4873 | 36.4873 | 9.2000e-004 | 0.0000 | 36.5102 |
| Total | 0.0155 | 0.0110 | 0.1274 | 4.0000e-004 | 0.0435 | 3.2000e-004 | 0.0438 | 0.0115 | 2.9000e-004 | 0.0118 | 0.0000 | 36.4873 | 36.4873 | 9.2000e-004 | 0.0000 | 36.5102 |

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.7690 | 3.7555 | 10.5696 | 0.0422 | 3.6633 | 0.0299 | 3.6932 | 0.9816 | 0.0278 | 1.0094 | 0.0000 | 3,905.6096 | 3,905.6096 | 0.1762 | 0.0000 | 3,910.0133 |
| Unmitigated | 0.7690 | 3.7555 | 10.5696 | 0.0422 | 3.6633 | 0.0299 | 3.6932 | 0.9816 | 0.0278 | 1.0094 | 0.0000 | 3,905.6096 | 3,905.6096 | 0.1762 | 0.0000 | 3,910.0133 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-------------------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Apartments Mid Rise | 2,648.08 | 2,543.33 | 2333.83 | 8,844,351 | 8,844,351 |
| City Park | 77.99 | 77.99 | 77.99 | 224,414 | 224,414 |
| General Office Building | 189.05 | 42.18 | 18.05 | 462,731 | 462,731 |
| High Turnover (Sit Down Restaurant) | 77.01 | 95.91 | 79.86 | 109,186 | 109,186 |
| Unenclosed Parking with Elevator | 0.00 | 0.00 | 0.00 | | |
| Total | 2,992.13 | 2,759.41 | 2,509.73 | 9,640,681 | 9,640,681 |

4.3 Trip Type Information

| Land Use | Miles | | | Trip % | | | Trip Purpose % | | |
|--------------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
| | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary | Diverted | Pass-by |
| Apartments Mid Rise | 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 |
| General Office Building | 16.60 | 8.40 | 6.90 | 33.00 | 48.00 | 19.00 | 77 | 19 | 4 |
| High Turnover (Sit Down) | 16.60 | 8.40 | 6.90 | 8.50 | 72.50 | 19.00 | 37 | 20 | 43 |
| Unenclosed Parking with | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

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4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Mid Rise | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| City Park | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| General Office Building | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| High Turnover (Sit Down Restaurant) | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |
| Unenclosed Parking with Elevator | 0.550151 | 0.042593 | 0.202457 | 0.116946 | 0.015037 | 0.005825 | 0.021699 | 0.034933 | 0.002123 | 0.001780 | 0.004876 | 0.000710 | 0.000868 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Install Energy Efficient Appliances

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-------------|------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,443.6113 | 1,443.6113 | 0.0341 | 7.0500e-003 | 1,446.5658 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 1,468.3851 | 1,468.3851 | 0.0347 | 7.1800e-003 | 1,471.3903 |
| NaturalGas Mitigated | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 292.9634 | 292.9634 | 5.6200e-003 | 5.3700e-003 | 294.7044 |
| NaturalGas Unmitigated | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 292.9634 | 292.9634 | 5.6200e-003 | 5.3700e-003 | 294.7044 |

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5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 4.59986e+006 | 0.0248 | 0.2120 | 0.0902 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.4659 | 245.4659 | 4.7000e-003 | 4.5000e-003 | 246.9246 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 197790 | 1.0700e-003 | 9.7000e-003 | 8.1400e-003 | 6.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | 0.0000 | 10.5548 | 10.5548 | 2.0000e-004 | 1.9000e-004 | 10.6176 |
| High Turnover (Sit Down Restaurant) | 692280 | 3.7300e-003 | 0.0339 | 0.0285 | 2.0000e-004 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | 0.0000 | 36.9427 | 36.9427 | 7.1000e-004 | 6.8000e-004 | 37.1622 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 292.9634 | 292.9634 | 5.6100e-003 | 5.3700e-003 | 294.7044 |

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5.2 Energy by Land Use - NaturalGas

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Land Use | kBTU/yr | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Apartments Mid Rise | 4.59986e+006 | 0.0248 | 0.2120 | 0.0902 | 1.3500e-003 | | 0.0171 | 0.0171 | | 0.0171 | 0.0171 | 0.0000 | 245.4659 | 245.4659 | 4.7000e-003 | 4.5000e-003 | 246.9246 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 197790 | 1.0700e-003 | 9.7000e-003 | 8.1400e-003 | 6.0000e-005 | | 7.4000e-004 | 7.4000e-004 | | 7.4000e-004 | 7.4000e-004 | 0.0000 | 10.5548 | 10.5548 | 2.0000e-004 | 1.9000e-004 | 10.6176 |
| High Turnover (Sit Down Restaurant) | 692280 | 3.7300e-003 | 0.0339 | 0.0285 | 2.0000e-004 | | 2.5800e-003 | 2.5800e-003 | | 2.5800e-003 | 2.5800e-003 | 0.0000 | 36.9427 | 36.9427 | 7.1000e-004 | 6.8000e-004 | 37.1622 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.0296 | 0.2556 | 0.1268 | 1.6100e-003 | | 0.0205 | 0.0205 | | 0.0205 | 0.0205 | 0.0000 | 292.9634 | 292.9634 | 5.6100e-003 | 5.3700e-003 | 294.7044 |

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5.3 Energy by Land Use - Electricity**Unmitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-------------------|---------------|--------------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 1.69847e+006 | 945.9830 | 0.0223 | 4.6200e-003 | 947.9191 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 246810 | 137.4637 | 3.2500e-003 | 6.7000e-004 | 137.7450 |
| High Turnover (Sit Down Restaurant) | 132420 | 73.7529 | 1.7400e-003 | 3.6000e-004 | 73.9038 |
| Unenclosed Parking with Elevator | 558720 | 311.1856 | 7.3500e-003 | 1.5200e-003 | 311.8224 |
| Total | | 1,468.3851 | 0.0347 | 7.1700e-003 | 1,471.3903 |

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5.3 Energy by Land Use - Electricity**Mitigated**

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|-----------------|-------------------|---------------|--------------------|-------------------|
| Land Use | kWh/yr | MT/yr | | | |
| Apartments Mid Rise | 1.65399e+006 | 921.2092 | 0.0218 | 4.5000e-003 | 923.0946 |
| City Park | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| General Office Building | 246810 | 137.4637 | 3.2500e-003 | 6.7000e-004 | 137.7450 |
| High Turnover (Sit Down Restaurant) | 132420 | 73.7529 | 1.7400e-003 | 3.6000e-004 | 73.9038 |
| Unenclosed Parking with Elevator | 558720 | 311.1856 | 7.3500e-003 | 1.5200e-003 | 311.8224 |
| Total | | 1,443.6113 | 0.0341 | 7.0500e-003 | 1,446.5658 |

6.0 Area Detail**6.1 Mitigation Measures Area**

Use only Natural Gas Hearths

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| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|--------|--------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |
| Unmitigated | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1468 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1311 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |
| Total | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |

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6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| SubCategory | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Architectural Coating | 0.1468 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 1.6302 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Landscaping | 0.1311 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |
| Total | 1.9081 | 0.0499 | 4.3315 | 2.3000e-004 | | 0.0240 | 0.0240 | | 0.0240 | 0.0240 | 0.0000 | 7.0767 | 7.0767 | 6.8400e-003 | 0.0000 | 7.2476 |

7.0 Water Detail

7.1 Mitigation Measures Water

Apply Water Conservation Strategy

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| Category | MT/yr | | | |
| Mitigated | 292.7292 | 0.8301 | 0.0208 | 319.6911 |
| Unmitigated | 365.9116 | 1.0377 | 0.0260 | 399.6139 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 27.2995 / 17.2106 | 313.1388 | 0.8968 | 0.0225 | 342.2602 |
| City Park | 0 / 1.15574 | 7.1515 | 1.7000e-004 | 3.0000e-005 | 7.1662 |
| General Office Building | 3.37694 / 2.06974 | 38.3688 | 0.1109 | 2.7800e-003 | 41.9704 |
| High Turnover (Sit Down Restaurant) | 0.910601 / 0.0581235 | 7.2524 | 0.0298 | 7.3000e-004 | 8.2172 |
| Unenclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 365.9116 | 1.0377 | 0.0260 | 399.6139 |

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7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------------|-----------------|---------------|---------------|-----------------|
| Land Use | Mgal | MT/yr | | | |
| Apartments Mid Rise | 21.8396 / 13.7685 | 250.5111 | 0.7174 | 0.0180 | 273.8081 |
| City Park | 0 / 0.92459 | 5.7212 | 1.4000e-004 | 3.0000e-005 | 5.7329 |
| General Office Building | 2.70155 / 1.65579 | 30.6950 | 0.0887 | 2.2200e-003 | 33.5763 |
| High Turnover (Sit Down Restaurant) | 0.728481 / 0.0464988 | 5.8019 | 0.0239 | 5.9000e-004 | 6.5738 |
| Unenclosed Parking with Elevator | 0 / 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 292.7292 | 0.8301 | 0.0208 | 319.6911 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Institute Recycling and Composting Services

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Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|----------|
| | MT/yr | | | |
| Mitigated | 12.4936 | 0.7384 | 0.0000 | 30.9523 |
| Unmitigated | 49.9744 | 2.9534 | 0.0000 | 123.8093 |

8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|-----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 192.74 | 39.1245 | 2.3122 | 0.0000 | 96.9292 |
| City Park | 0.08 | 0.0162 | 9.6000e-004 | 0.0000 | 0.0402 |
| General Office Building | 17.67 | 3.5869 | 0.2120 | 0.0000 | 8.8863 |
| High Turnover (Sit Down Restaurant) | 35.7 | 7.2468 | 0.4283 | 0.0000 | 17.9536 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 49.9744 | 2.9534 | 0.0000 | 123.8093 |

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8.2 Waste by Land Use

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-------------------------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Apartments Mid Rise | 48.185 | 9.7811 | 0.5781 | 0.0000 | 24.2323 |
| City Park | 0.02 | 4.0600e-003 | 2.4000e-004 | 0.0000 | 0.0101 |
| General Office Building | 4.4175 | 0.8967 | 0.0530 | 0.0000 | 2.2216 |
| High Turnover (Sit Down Restaurant) | 8.925 | 1.8117 | 0.1071 | 0.0000 | 4.4884 |
| Unenclosed Parking with Elevator | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 12.4936 | 0.7384 | 0.0000 | 30.9523 |

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

| Equipment Type | Number | Hours/Day | Hours/Year | Horse Power | Load Factor | Fuel Type |
|---------------------|--------|-----------|------------|-------------|-------------|-----------|
| Emergency Generator | 4 | 0.5 | 12 | 1000 | 0.73 | Diesel |

Boilers

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

User Defined Equipment

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

10.1 Stationary Sources

Unmitigated/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 |
|--|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Equipment Type | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Emergency Generator - Diesel (750 - 9999 HP) | 0.0394 | 0.1761 | 0.1004 | 1.9000e-004 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 18.2783 | 18.2783 | 2.5600e-003 | 0.0000 | 18.3423 |
| Total | 0.0394 | 0.1761 | 0.1004 | 1.9000e-004 | | 5.7900e-003 | 5.7900e-003 | | 5.7900e-003 | 5.7900e-003 | 0.0000 | 18.2783 | 18.2783 | 2.5600e-003 | 0.0000 | 18.3423 |

11.0 Vegetation

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| Category | MT | | | |
| Unmitigated | 99.1200 | 0.0000 | 0.0000 | 99.1200 |

11.2 Net New Trees

Species Class

| | Number of Trees | Total CO2 | CH4 | N2O | CO2e |
|---------------|-----------------|----------------|---------------|---------------|----------------|
| | | MT | | | |
| Miscellaneous | 140 | 99.1200 | 0.0000 | 0.0000 | 99.1200 |
| Total | | 99.1200 | 0.0000 | 0.0000 | 99.1200 |