

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

**TTM 20485 - Adelanto
Mojave Desert AQMD Air District, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 92.00 | Dwelling Unit | 20.00 | 165,600.00 | 263 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage per site plan.

Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.

Grading - Acres graded and import per earthwork volume analysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rules

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

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| | | | |
|------------------------|--------------------------------|-------|--------|
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 20 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 20 |
| tblConstructionPhase | NumDays | 20.00 | 40.00 |
| tblFireplaces | NumberGas | 50.60 | 90.80 |
| tblFireplaces | NumberWood | 32.20 | 0.00 |
| tblLandUse | LotAcreage | 29.87 | 20.00 |
| tblTripsAndVMT | HaulingTripNumber | 0.00 | 576.00 |

2.0 Emissions Summary

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2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 3.7647 | 41.1594 | 30.2473 | 0.0747 | 19.8049 | 1.6660 | 21.4182 | 10.1417 | 1.5338 | 11.6259 | 0.0000 | 7,338.6380 | 7,338.6380 | 1.9519 | 0.1884 | 7,443.5777 |
| 2023 | 26.1223 | 14.7897 | 17.3537 | 0.0314 | 0.3389 | 0.7045 | 1.0434 | 0.0914 | 0.6629 | 0.7544 | 0.0000 | 3,012.9251 | 3,012.9251 | 0.7171 | 0.0347 | 3,038.6673 |
| Maximum | 26.1223 | 41.1594 | 30.2473 | 0.0747 | 19.8049 | 1.6660 | 21.4182 | 10.1417 | 1.5338 | 11.6259 | 0.0000 | 7,338.6380 | 7,338.6380 | 1.9519 | 0.1884 | 7,443.5777 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 3.7647 | 41.1594 | 30.2473 | 0.0747 | 7.7884 | 1.6660 | 9.4017 | 3.9729 | 1.5338 | 5.4571 | 0.0000 | 7,338.6380 | 7,338.6380 | 1.9519 | 0.1884 | 7,443.5777 |
| 2023 | 26.1223 | 14.7897 | 17.3537 | 0.0314 | 0.2822 | 0.7045 | 0.9866 | 0.0775 | 0.6629 | 0.7404 | 0.0000 | 3,012.9251 | 3,012.9251 | 0.7171 | 0.0347 | 3,038.6673 |
| Maximum | 26.1223 | 41.1594 | 30.2473 | 0.0747 | 7.7884 | 1.6660 | 9.4017 | 3.9729 | 1.5338 | 5.4571 | 0.0000 | 7,338.6380 | 7,338.6380 | 1.9519 | 0.1884 | 7,443.5777 |

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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 | 59.94 | 0.00 | 53.75 | 60.42 | 0.00 | 49.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |
| Energy | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Mobile | 3.0264 | 3.6173 | 25.4903 | 0.0533 | 5.2610 | 0.0442 | 5.3052 | 1.4024 | 0.0415 | 1.4440 | | 5,508.4089 | 5,508.4089 | 0.2831 | 0.2651 | 5,594.4933 |
| Total | 9.6219 | 6.2067 | 54.7625 | 0.1352 | 5.2610 | 3.6485 | 8.9096 | 1.4024 | 3.6459 | 5.0483 | 499.9795 | 8,283.7061 | 8,783.6856 | 2.6864 | 0.3158 | 8,944.9415 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |
| Energy | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Mobile | 3.0264 | 3.6173 | 25.4903 | 0.0533 | 5.2610 | 0.0442 | 5.3052 | 1.4024 | 0.0415 | 1.4440 | | 5,508.4089 | 5,508.4089 | 0.2831 | 0.2651 | 5,594.4933 |
| Total | 9.6219 | 6.2067 | 54.7625 | 0.1352 | 5.2610 | 3.6485 | 8.9096 | 1.4024 | 3.6459 | 5.0483 | 499.9795 | 8,283.7061 | 8,783.6856 | 2.6864 | 0.3158 | 8,944.9415 |

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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 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|------------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 5/2/2022 | 5/13/2022 | 5 | 10 | |
| 2 | Grading | Grading | 5/14/2022 | 6/24/2022 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 6/25/2022 | 8/18/2023 | 5 | 300 | |
| 4 | Paving | Paving | 8/19/2023 | 9/15/2023 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 9/16/2023 | 11/10/2023 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 335,340; Residential Outdoor: 111,780; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

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| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| 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 | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 576.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 33.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 7.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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3.2 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 19.6570 | 1.6126 | 21.2696 | 10.1025 | 1.4836 | 11.5860 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0713 | 0.0399 | 0.5581 | 1.3800e-003 | 0.1479 | 7.5000e-004 | 0.1486 | 0.0392 | 6.9000e-004 | 0.0399 | | 140.1783 | 140.1783 | 4.1600e-003 | 3.8400e-003 | 141.4271 |
| Total | 0.0713 | 0.0399 | 0.5581 | 1.3800e-003 | 0.1479 | 7.5000e-004 | 0.1486 | 0.0392 | 6.9000e-004 | 0.0399 | | 140.1783 | 140.1783 | 4.1600e-003 | 3.8400e-003 | 141.4271 |

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3.2 Site Preparation - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.6662 | 0.0000 | 7.6662 | 3.9400 | 0.0000 | 3.9400 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | 0.0000 | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 7.6662 | 1.6126 | 9.2788 | 3.9400 | 1.4836 | 5.4235 | 0.0000 | 3,686.061 9 | 3,686.061 9 | 1.1922 | | 3,715.865 5 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0713 | 0.0399 | 0.5581 | 1.3800e-003 | 0.1222 | 7.5000e-004 | 0.1229 | 0.0329 | 6.9000e-004 | 0.0336 | | 140.1783 | 140.1783 | 4.1600e-003 | 3.8400e-003 | 141.4271 |
| Total | 0.0713 | 0.0399 | 0.5581 | 1.3800e-003 | 0.1222 | 7.5000e-004 | 0.1229 | 0.0329 | 6.9000e-004 | 0.0336 | | 140.1783 | 140.1783 | 4.1600e-003 | 3.8400e-003 | 141.4271 |

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3.3 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 9.2036 | 1.6349 | 10.8385 | 3.6538 | 1.5041 | 5.1579 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|--------------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0607 | 2.2716 | 0.5857 | 0.0111 | 0.3369 | 0.0303 | 0.3671 | 0.0924 | 0.0289 | 0.1214 | | 1,171.4739 | 1,171.4739 | 3.0700e-003 | 0.1841 | 1,226.4207 |
| 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 |
| Worker | 0.0792 | 0.0443 | 0.6201 | 1.5300e-003 | 0.1643 | 8.3000e-004 | 0.1651 | 0.0436 | 7.6000e-004 | 0.0443 | | 155.7537 | 155.7537 | 4.6200e-003 | 4.2700e-003 | 157.1412 |
| Total | 0.1399 | 2.3159 | 1.2058 | 0.0126 | 0.5012 | 0.0311 | 0.5322 | 0.1360 | 0.0297 | 0.1657 | | 1,327.2275 | 1,327.2275 | 7.6900e-003 | 0.1884 | 1,383.5619 |

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3.3 Grading - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.5894 | 0.0000 | 3.5894 | 1.4250 | 0.0000 | 1.4250 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 3.5894 | 1.6349 | 5.2243 | 1.4250 | 1.5041 | 2.9291 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|--------------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0607 | 2.2716 | 0.5857 | 0.0111 | 0.2861 | 0.0303 | 0.3164 | 0.0800 | 0.0289 | 0.1089 | | 1,171.4739 | 1,171.4739 | 3.0700e-003 | 0.1841 | 1,226.4207 |
| 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 |
| Worker | 0.0792 | 0.0443 | 0.6201 | 1.5300e-003 | 0.1357 | 8.3000e-004 | 0.1366 | 0.0366 | 7.6000e-004 | 0.0373 | | 155.7537 | 155.7537 | 4.6200e-003 | 4.2700e-003 | 157.1412 |
| Total | 0.1399 | 2.3159 | 1.2058 | 0.0126 | 0.4218 | 0.0311 | 0.4529 | 0.1165 | 0.0297 | 0.1462 | | 1,327.2275 | 1,327.2275 | 7.6900e-003 | 0.1884 | 1,383.5619 |

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3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0189 | 0.4086 | 0.1857 | 2.0400e-003 | 0.0678 | 5.7100e-003 | 0.0735 | 0.0195 | 5.4600e-003 | 0.0250 | | 213.9480 | 213.9480 | 1.1000e-003 | 0.0293 | 222.6908 |
| Worker | 0.1307 | 0.0731 | 1.0231 | 2.5300e-003 | 0.2711 | 1.3700e-003 | 0.2725 | 0.0719 | 1.2600e-003 | 0.0732 | | 256.9935 | 256.9935 | 7.6200e-003 | 7.0400e-003 | 259.2830 |
| Total | 0.1496 | 0.4816 | 1.2088 | 4.5700e-003 | 0.3389 | 7.0800e-003 | 0.3460 | 0.0914 | 6.7200e-003 | 0.0982 | | 470.9416 | 470.9416 | 8.7200e-003 | 0.0363 | 481.9738 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0189 | 0.4086 | 0.1857 | 2.0400e-003 | 0.0582 | 5.7100e-003 | 0.0639 | 0.0172 | 5.4600e-003 | 0.0226 | | 213.9480 | 213.9480 | 1.1000e-003 | 0.0293 | 222.6908 |
| Worker | 0.1307 | 0.0731 | 1.0231 | 2.5300e-003 | 0.2240 | 1.3700e-003 | 0.2253 | 0.0603 | 1.2600e-003 | 0.0616 | | 256.9935 | 256.9935 | 7.6200e-003 | 7.0400e-003 | 259.2830 |
| Total | 0.1496 | 0.4816 | 1.2088 | 4.5700e-003 | 0.2822 | 7.0800e-003 | 0.2892 | 0.0775 | 6.7200e-003 | 0.0842 | | 470.9416 | 470.9416 | 8.7200e-003 | 0.0363 | 481.9738 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0154 | 0.3404 | 0.1741 | 1.9700e-003 | 0.0678 | 3.4600e-003 | 0.0713 | 0.0195 | 3.3100e-003 | 0.0228 | | 207.5754 | 207.5754 | 9.2000e-004 | 0.0283 | 216.0165 |
| Worker | 0.1205 | 0.0644 | 0.9356 | 2.4400e-003 | 0.2711 | 1.2800e-003 | 0.2724 | 0.0719 | 1.1800e-003 | 0.0731 | | 250.1399 | 250.1399 | 6.8400e-003 | 6.4900e-003 | 252.2447 |
| Total | 0.1360 | 0.4048 | 1.1097 | 4.4100e-003 | 0.3389 | 4.7400e-003 | 0.3437 | 0.0914 | 4.4900e-003 | 0.0959 | | 457.7152 | 457.7152 | 7.7600e-003 | 0.0347 | 468.2613 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0154 | 0.3404 | 0.1741 | 1.9700e-003 | 0.0582 | 3.4600e-003 | 0.0616 | 0.0172 | 3.3100e-003 | 0.0205 | | 207.5754 | 207.5754 | 9.2000e-004 | 0.0283 | 216.0165 |
| Worker | 0.1205 | 0.0644 | 0.9356 | 2.4400e-003 | 0.2240 | 1.2800e-003 | 0.2253 | 0.0603 | 1.1800e-003 | 0.0615 | | 250.1399 | 250.1399 | 6.8400e-003 | 6.4900e-003 | 252.2447 |
| Total | 0.1360 | 0.4048 | 1.1097 | 4.4100e-003 | 0.2822 | 4.7400e-003 | 0.2869 | 0.0775 | 4.4900e-003 | 0.0820 | | 457.7152 | 457.7152 | 7.7600e-003 | 0.0347 | 468.2613 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0548 | 0.0293 | 0.4253 | 1.1100e-003 | 0.1232 | 5.8000e-004 | 0.1238 | 0.0327 | 5.4000e-004 | 0.0332 | | 113.6999 | 113.6999 | 3.1100e-003 | 2.9500e-003 | 114.6567 |
| Total | 0.0548 | 0.0293 | 0.4253 | 1.1100e-003 | 0.1232 | 5.8000e-004 | 0.1238 | 0.0327 | 5.4000e-004 | 0.0332 | | 113.6999 | 113.6999 | 3.1100e-003 | 2.9500e-003 | 114.6567 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0548 | 0.0293 | 0.4253 | 1.1100e-003 | 0.1018 | 5.8000e-004 | 0.1024 | 0.0274 | 5.4000e-004 | 0.0280 | | 113.6999 | 113.6999 | 3.1100e-003 | 2.9500e-003 | 114.6567 |
| Total | 0.0548 | 0.0293 | 0.4253 | 1.1100e-003 | 0.1018 | 5.8000e-004 | 0.1024 | 0.0274 | 5.4000e-004 | 0.0280 | | 113.6999 | 113.6999 | 3.1100e-003 | 2.9500e-003 | 114.6567 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 25.9050 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.0967 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0256 | 0.0137 | 0.1985 | 5.2000e-004 | 0.0575 | 2.7000e-004 | 0.0578 | 0.0153 | 2.5000e-004 | 0.0155 | | 53.0600 | 53.0600 | 1.4500e-003 | 1.3800e-003 | 53.5065 |
| Total | 0.0256 | 0.0137 | 0.1985 | 5.2000e-004 | 0.0575 | 2.7000e-004 | 0.0578 | 0.0153 | 2.5000e-004 | 0.0155 | | 53.0600 | 53.0600 | 1.4500e-003 | 1.3800e-003 | 53.5065 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 25.9050 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.0967 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0256 | 0.0137 | 0.1985 | 5.2000e-004 | 0.0475 | 2.7000e-004 | 0.0478 | 0.0128 | 2.5000e-004 | 0.0131 | | 53.0600 | 53.0600 | 1.4500e-003 | 1.3800e-003 | 53.5065 |
| Total | 0.0256 | 0.0137 | 0.1985 | 5.2000e-004 | 0.0475 | 2.7000e-004 | 0.0478 | 0.0128 | 2.5000e-004 | 0.0131 | | 53.0600 | 53.0600 | 1.4500e-003 | 1.3800e-003 | 53.5065 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.0264 | 3.6173 | 25.4903 | 0.0533 | 5.2610 | 0.0442 | 5.3052 | 1.4024 | 0.0415 | 1.4440 | | 5,508.4089 | 5,508.4089 | 0.2831 | 0.2651 | 5,594.4933 |
| Unmitigated | 3.0264 | 3.6173 | 25.4903 | 0.0533 | 5.2610 | 0.0442 | 5.3052 | 1.4024 | 0.0415 | 1.4440 | | 5,508.4089 | 5,508.4089 | 0.2831 | 0.2651 | 5,594.4933 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |
| Total | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |

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 |
| Single Family Housing | 10.80 | 7.30 | 7.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| NaturalGas Unmitigated | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 7129.86 | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Total | | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 7.12986 | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Total | | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |
| Unmitigated | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2839 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.4628 | 1.8450 | 21.4057 | 0.0774 | | 3.5092 | 3.5092 | | 3.5092 | 3.5092 | 499.9795 | 1,922.8235 | 2,422.8031 | 2.3742 | 0.0353 | 2,492.6620 |
| Landscaping | 0.2281 | 0.0874 | 7.5869 | 4.0000e-004 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 13.6668 | 13.6668 | 0.0131 | | 13.9946 |
| Total | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2839 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.4628 | 1.8450 | 21.4057 | 0.0774 | | 3.5092 | 3.5092 | | 3.5092 | 3.5092 | 499.9795 | 1,922.8235 | 2,422.8031 | 2.3742 | 0.0353 | 2,492.6620 |
| Landscaping | 0.2281 | 0.0874 | 7.5869 | 4.0000e-004 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 13.6668 | 13.6668 | 0.0131 | | 13.9946 |
| Total | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

7.0 Water Detail

7.1 Mitigation Measures Water

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

TTM 20485 - Adelanto
Mojave Desert AQMD Air District, Winter

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 92.00 | Dwelling Unit | 20.00 | 165,600.00 | 263 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage per site plan.

Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.

Grading - Acres graded and import per earthwork volume analysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rules

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | |
|------------------------|--------------------------------|-------|--------|
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 20 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 20 |
| tblConstructionPhase | NumDays | 20.00 | 40.00 |
| tblFireplaces | NumberGas | 50.60 | 90.80 |
| tblFireplaces | NumberWood | 32.20 | 0.00 |
| tblLandUse | LotAcreage | 29.87 | 20.00 |
| tblTripsAndVMT | HaulingTripNumber | 0.00 | 576.00 |

2.0 Emissions Summary

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 3.7529 | 41.2858 | 30.1388 | 0.0745 | 19.8049 | 1.6660 | 21.4182 | 10.1417 | 1.5338 | 11.6259 | 0.0000 | 7,322.646 1 | 7,322.646 1 | 1.9518 | 0.1887 | 7,427.671 6 |
| 2023 | 26.1197 | 14.8134 | 17.1722 | 0.0311 | 0.3389 | 0.7045 | 1.0434 | 0.0914 | 0.6629 | 0.7544 | 0.0000 | 2,985.622 9 | 2,985.622 9 | 0.7172 | 0.0350 | 3,011.437 3 |
| Maximum | 26.1197 | 41.2858 | 30.1388 | 0.0745 | 19.8049 | 1.6660 | 21.4182 | 10.1417 | 1.5338 | 11.6259 | 0.0000 | 7,322.646 1 | 7,322.646 1 | 1.9518 | 0.1887 | 7,427.671 6 |

Mitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|---------------|------------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2022 | 3.7529 | 41.2858 | 30.1388 | 0.0745 | 7.7884 | 1.6660 | 9.4017 | 3.9729 | 1.5338 | 5.4571 | 0.0000 | 7,322.646 1 | 7,322.646 1 | 1.9518 | 0.1887 | 7,427.671 6 |
| 2023 | 26.1197 | 14.8134 | 17.1722 | 0.0311 | 0.2822 | 0.7045 | 0.9866 | 0.0775 | 0.6629 | 0.7404 | 0.0000 | 2,985.622 9 | 2,985.622 9 | 0.7172 | 0.0350 | 3,011.437 3 |
| Maximum | 26.1197 | 41.2858 | 30.1388 | 0.0745 | 7.7884 | 1.6660 | 9.4017 | 3.9729 | 1.5338 | 5.4571 | 0.0000 | 7,322.646 1 | 7,322.646 1 | 1.9518 | 0.1887 | 7,427.671 6 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | 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 | 59.94 | 0.00 | 53.75 | 60.42 | 0.00 | 49.94 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|-----------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|------------------------|------------------------|---------------|---------------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.490 3 | 2,436.469 9 | 2.3873 | 0.0353 | 2,506.656 6 |
| Energy | 0.0769 | 0.6571 | 0.2796 | 4.1900e- 003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Mobile | 2.4886 | 3.8351 | 22.3604 | 0.0488 | 5.2610 | 0.0442 | 5.3053 | 1.4024 | 0.0416 | 1.4440 | | 5,044.303 3 | 5,044.303 3 | 0.2915 | 0.2705 | 5,132.187 6 |
| Total | 9.0841 | 6.4246 | 51.6326 | 0.1307 | 5.2610 | 3.6486 | 8.9096 | 1.4024 | 3.6459 | 5.0483 | 499.9795 | 7,819.600 5 | 8,319.580 0 | 2.6949 | 0.3211 | 8,482.635 8 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|-----------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|------------------------|------------------------|---------------|---------------|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.490 3 | 2,436.469 9 | 2.3873 | 0.0353 | 2,506.656 6 |
| Energy | 0.0769 | 0.6571 | 0.2796 | 4.1900e- 003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Mobile | 2.4886 | 3.8351 | 22.3604 | 0.0488 | 5.2610 | 0.0442 | 5.3053 | 1.4024 | 0.0416 | 1.4440 | | 5,044.303 3 | 5,044.303 3 | 0.2915 | 0.2705 | 5,132.187 6 |
| Total | 9.0841 | 6.4246 | 51.6326 | 0.1307 | 5.2610 | 3.6486 | 8.9096 | 1.4024 | 3.6459 | 5.0483 | 499.9795 | 7,819.600 5 | 8,319.580 0 | 2.6949 | 0.3211 | 8,482.635 8 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | ROG | NOx | CO | SO2 | 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 | Site Preparation | Site Preparation | 5/2/2022 | 5/13/2022 | 5 | 10 | |
| 2 | Grading | Grading | 5/14/2022 | 6/24/2022 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 6/25/2022 | 8/18/2023 | 5 | 300 | |
| 4 | Paving | Paving | 8/19/2023 | 9/15/2023 | 5 | 20 | |
| 5 | Architectural Coating | Architectural Coating | 9/16/2023 | 11/10/2023 | 5 | 40 | |

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 335,340; Residential Outdoor: 111,780; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| 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 | Air Compressors | 1 | 6.00 | 78 | 0.48 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 576.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 33.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 7.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 19.6570 | 1.6126 | 21.2696 | 10.1025 | 1.4836 | 11.5860 | | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0642 | 0.0410 | 0.4448 | 1.2200e-003 | 0.1479 | 7.5000e-004 | 0.1486 | 0.0392 | 6.9000e-004 | 0.0399 | | 124.5065 | 124.5065 | 4.2200e-003 | 3.9100e-003 | 125.7763 |
| Total | 0.0642 | 0.0410 | 0.4448 | 1.2200e-003 | 0.1479 | 7.5000e-004 | 0.1486 | 0.0392 | 6.9000e-004 | 0.0399 | | 124.5065 | 124.5065 | 4.2200e-003 | 3.9100e-003 | 125.7763 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.2 Site Preparation - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 7.6662 | 0.0000 | 7.6662 | 3.9400 | 0.0000 | 3.9400 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.1701 | 33.0835 | 19.6978 | 0.0380 | | 1.6126 | 1.6126 | | 1.4836 | 1.4836 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |
| Total | 3.1701 | 33.0835 | 19.6978 | 0.0380 | 7.6662 | 1.6126 | 9.2788 | 3.9400 | 1.4836 | 5.4235 | 0.0000 | 3,686.0619 | 3,686.0619 | 1.1922 | | 3,715.8655 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0642 | 0.0410 | 0.4448 | 1.2200e-003 | 0.1222 | 7.5000e-004 | 0.1229 | 0.0329 | 6.9000e-004 | 0.0336 | | 124.5065 | 124.5065 | 4.2200e-003 | 3.9100e-003 | 125.7763 |
| Total | 0.0642 | 0.0410 | 0.4448 | 1.2200e-003 | 0.1222 | 7.5000e-004 | 0.1229 | 0.0329 | 6.9000e-004 | 0.0336 | | 124.5065 | 124.5065 | 4.2200e-003 | 3.9100e-003 | 125.7763 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 9.2036 | 1.6349 | 10.8385 | 3.6538 | 1.5041 | 5.1579 | | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|--------------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0568 | 2.3968 | 0.6030 | 0.0111 | 0.3369 | 0.0303 | 0.3672 | 0.0924 | 0.0290 | 0.1214 | | 1,172.8950 | 1,172.8950 | 2.9000e-003 | 0.1844 | 1,227.9043 |
| 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 |
| Worker | 0.0713 | 0.0455 | 0.4942 | 1.3600e-003 | 0.1643 | 8.3000e-004 | 0.1651 | 0.0436 | 7.6000e-004 | 0.0443 | | 138.3405 | 138.3405 | 4.6900e-003 | 4.3400e-003 | 139.7515 |
| Total | 0.1281 | 2.4424 | 1.0972 | 0.0124 | 0.5012 | 0.0311 | 0.5323 | 0.1360 | 0.0297 | 0.1658 | | 1,311.2355 | 1,311.2355 | 7.5900e-003 | 0.1887 | 1,367.6558 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.3 Grading - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 3.5894 | 0.0000 | 3.5894 | 1.4250 | 0.0000 | 1.4250 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.6248 | 38.8435 | 29.0415 | 0.0621 | | 1.6349 | 1.6349 | | 1.5041 | 1.5041 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |
| Total | 3.6248 | 38.8435 | 29.0415 | 0.0621 | 3.5894 | 1.6349 | 5.2243 | 1.4250 | 1.5041 | 2.9291 | 0.0000 | 6,011.4105 | 6,011.4105 | 1.9442 | | 6,060.0158 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|--------------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0568 | 2.3968 | 0.6030 | 0.0111 | 0.2861 | 0.0303 | 0.3164 | 0.0800 | 0.0290 | 0.1090 | | 1,172.8950 | 1,172.8950 | 2.9000e-003 | 0.1844 | 1,227.9043 |
| 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 |
| Worker | 0.0713 | 0.0455 | 0.4942 | 1.3600e-003 | 0.1357 | 8.3000e-004 | 0.1366 | 0.0366 | 7.6000e-004 | 0.0373 | | 138.3405 | 138.3405 | 4.6900e-003 | 4.3400e-003 | 139.7515 |
| Total | 0.1281 | 2.4424 | 1.0972 | 0.0124 | 0.4218 | 0.0311 | 0.4530 | 0.1165 | 0.0297 | 0.1463 | | 1,311.2355 | 1,311.2355 | 7.5900e-003 | 0.1887 | 1,367.6558 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0180 | 0.4320 | 0.1927 | 2.0400e-003 | 0.0678 | 5.7200e-003 | 0.0736 | 0.0195 | 5.4700e-003 | 0.0250 | | 214.2938 | 214.2938 | 1.0600e-003 | 0.0293 | 223.0632 |
| Worker | 0.1176 | 0.0752 | 0.8155 | 2.2400e-003 | 0.2711 | 1.3700e-003 | 0.2725 | 0.0719 | 1.2600e-003 | 0.0732 | | 228.2619 | 228.2619 | 7.7400e-003 | 7.1600e-003 | 230.5899 |
| Total | 0.1356 | 0.5072 | 1.0082 | 4.2800e-003 | 0.3389 | 7.0900e-003 | 0.3460 | 0.0914 | 6.7300e-003 | 0.0982 | | 442.5557 | 442.5557 | 8.8000e-003 | 0.0365 | 453.6532 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2022

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |
| Total | 1.7062 | 15.6156 | 16.3634 | 0.0269 | | 0.8090 | 0.8090 | | 0.7612 | 0.7612 | 0.0000 | 2,554.3336 | 2,554.3336 | 0.6120 | | 2,569.6322 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0180 | 0.4320 | 0.1927 | 2.0400e-003 | 0.0582 | 5.7200e-003 | 0.0639 | 0.0172 | 5.4700e-003 | 0.0226 | | 214.2938 | 214.2938 | 1.0600e-003 | 0.0293 | 223.0632 |
| Worker | 0.1176 | 0.0752 | 0.8155 | 2.2400e-003 | 0.2240 | 1.3700e-003 | 0.2253 | 0.0603 | 1.2600e-003 | 0.0616 | | 228.2619 | 228.2619 | 7.7400e-003 | 7.1600e-003 | 230.5899 |
| Total | 0.1356 | 0.5072 | 1.0082 | 4.2800e-003 | 0.2822 | 7.0900e-003 | 0.2892 | 0.0775 | 6.7300e-003 | 0.0842 | | 442.5557 | 442.5557 | 8.8000e-003 | 0.0365 | 453.6532 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0144 | 0.3623 | 0.1802 | 1.9800e-003 | 0.0678 | 3.4700e-003 | 0.0713 | 0.0195 | 3.3200e-003 | 0.0229 | | 208.1583 | 208.1583 | 8.8000e-004 | 0.0284 | 216.6358 |
| Worker | 0.1087 | 0.0662 | 0.7480 | 2.1700e-003 | 0.2711 | 1.2800e-003 | 0.2724 | 0.0719 | 1.1800e-003 | 0.0731 | | 222.2547 | 222.2547 | 6.9700e-003 | 6.6000e-003 | 224.3954 |
| Total | 0.1231 | 0.4285 | 0.9282 | 4.1500e-003 | 0.3389 | 4.7500e-003 | 0.3437 | 0.0914 | 4.5000e-003 | 0.0959 | | 430.4130 | 430.4130 | 7.8500e-003 | 0.0350 | 441.0312 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.4 Building Construction - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |
| Total | 1.5728 | 14.3849 | 16.2440 | 0.0269 | | 0.6997 | 0.6997 | | 0.6584 | 0.6584 | 0.0000 | 2,555.2099 | 2,555.2099 | 0.6079 | | 2,570.4061 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0144 | 0.3623 | 0.1802 | 1.9800e-003 | 0.0582 | 3.4700e-003 | 0.0617 | 0.0172 | 3.3200e-003 | 0.0205 | | 208.1583 | 208.1583 | 8.8000e-004 | 0.0284 | 216.6358 |
| Worker | 0.1087 | 0.0662 | 0.7480 | 2.1700e-003 | 0.2240 | 1.2800e-003 | 0.2253 | 0.0603 | 1.1800e-003 | 0.0615 | | 222.2547 | 222.2547 | 6.9700e-003 | 6.6000e-003 | 224.3954 |
| Total | 0.1231 | 0.4285 | 0.9282 | 4.1500e-003 | 0.2822 | 4.7500e-003 | 0.2869 | 0.0775 | 4.5000e-003 | 0.0820 | | 430.4130 | 430.4130 | 7.8500e-003 | 0.0350 | 441.0312 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | | 2,207.5841 | 2,207.5841 | 0.7140 | | 2,225.4336 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0494 | 0.0301 | 0.3400 | 9.9000e-004 | 0.1232 | 5.8000e-004 | 0.1238 | 0.0327 | 5.4000e-004 | 0.0332 | | 101.0249 | 101.0249 | 3.1700e-003 | 3.0000e-003 | 101.9979 |
| Total | 0.0494 | 0.0301 | 0.3400 | 9.9000e-004 | 0.1232 | 5.8000e-004 | 0.1238 | 0.0327 | 5.4000e-004 | 0.0332 | | 101.0249 | 101.0249 | 3.1700e-003 | 3.0000e-003 | 101.9979 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.5 Paving - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.0327 | 10.1917 | 14.5842 | 0.0228 | | 0.5102 | 0.5102 | | 0.4694 | 0.4694 | 0.0000 | 2,207.584 1 | 2,207.584 1 | 0.7140 | | 2,225.433 6 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|--------------------|--------------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0494 | 0.0301 | 0.3400 | 9.9000e-004 | 0.1018 | 5.8000e-004 | 0.1024 | 0.0274 | 5.4000e-004 | 0.0280 | | 101.0249 | 101.0249 | 3.1700e-003 | 3.0000e-003 | 101.9979 |
| Total | 0.0494 | 0.0301 | 0.3400 | 9.9000e-004 | 0.1018 | 5.8000e-004 | 0.1024 | 0.0274 | 5.4000e-004 | 0.0280 | | 101.0249 | 101.0249 | 3.1700e-003 | 3.0000e-003 | 101.9979 |

TTM 20485 - Adelanto - Mojave Desert AQMD Air District, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 25.9050 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.0967 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 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 |
| Worker | 0.0231 | 0.0140 | 0.1587 | 4.6000e-004 | 0.0575 | 2.7000e-004 | 0.0578 | 0.0153 | 2.5000e-004 | 0.0155 | | 47.1449 | 47.1449 | 1.4800e-003 | 1.4000e-003 | 47.5990 |
| Total | 0.0231 | 0.0140 | 0.1587 | 4.6000e-004 | 0.0575 | 2.7000e-004 | 0.0578 | 0.0153 | 2.5000e-004 | 0.0155 | | 47.1449 | 47.1449 | 1.4800e-003 | 1.4000e-003 | 47.5990 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

3.6 Architectural Coating - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 25.9050 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1917 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |
| Total | 26.0967 | 1.3030 | 1.8111 | 2.9700e-003 | | 0.0708 | 0.0708 | | 0.0708 | 0.0708 | 0.0000 | 281.4481 | 281.4481 | 0.0168 | | 281.8690 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 |
| Worker | 0.0231 | 0.0140 | 0.1587 | 4.6000e-004 | 0.0475 | 2.7000e-004 | 0.0478 | 0.0128 | 2.5000e-004 | 0.0131 | | 47.1449 | 47.1449 | 1.4800e-003 | 1.4000e-003 | 47.5990 |
| Total | 0.0231 | 0.0140 | 0.1587 | 4.6000e-004 | 0.0475 | 2.7000e-004 | 0.0478 | 0.0128 | 2.5000e-004 | 0.0131 | | 47.1449 | 47.1449 | 1.4800e-003 | 1.4000e-003 | 47.5990 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 2.4886 | 3.8351 | 22.3604 | 0.0488 | 5.2610 | 0.0442 | 5.3053 | 1.4024 | 0.0416 | 1.4440 | | 5,044.303 3 | 5,044.303 3 | 0.2915 | 0.2705 | 5,132.187 6 |
| Unmitigated | 2.4886 | 3.8351 | 22.3604 | 0.0488 | 5.2610 | 0.0442 | 5.3053 | 1.4024 | 0.0416 | 1.4440 | | 5,044.303 3 | 5,044.303 3 | 0.2915 | 0.2705 | 5,132.187 6 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |
| Total | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |

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 |
| Single Family Housing | 10.80 | 7.30 | 7.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| NaturalGas Unmitigated | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 7129.86 | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Total | | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Single Family Housing | 7.12986 | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |
| Total | | 0.0769 | 0.6571 | 0.2796 | 4.1900e-003 | | 0.0531 | 0.0531 | | 0.0531 | 0.0531 | | 838.8069 | 838.8069 | 0.0161 | 0.0154 | 843.7915 |

6.0 Area Detail

6.1 Mitigation Measures Area

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |
| Unmitigated | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

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6.2 Area by SubCategory

Unmitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2839 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.4628 | 1.8450 | 21.4057 | 0.0774 | | 3.5092 | 3.5092 | | 3.5092 | 3.5092 | 499.9795 | 1,922.8235 | 2,422.8031 | 2.3742 | 0.0353 | 2,492.6620 |
| Landscaping | 0.2281 | 0.0874 | 7.5869 | 4.0000e-004 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 13.6668 | 13.6668 | 0.0131 | | 13.9946 |
| Total | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.2839 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 3.5438 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 2.4628 | 1.8450 | 21.4057 | 0.0774 | | 3.5092 | 3.5092 | | 3.5092 | 3.5092 | 499.9795 | 1,922.8235 | 2,422.8031 | 2.3742 | 0.0353 | 2,492.6620 |
| Landscaping | 0.2281 | 0.0874 | 7.5869 | 4.0000e-004 | | 0.0421 | 0.0421 | | 0.0421 | 0.0421 | | 13.6668 | 13.6668 | 0.0131 | | 13.9946 |
| Total | 6.5186 | 1.9324 | 28.9926 | 0.0778 | | 3.5512 | 3.5512 | | 3.5512 | 3.5512 | 499.9795 | 1,936.4903 | 2,436.4699 | 2.3873 | 0.0353 | 2,506.6566 |

7.0 Water Detail

7.1 Mitigation Measures Water

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

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

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

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

Boilers

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

User Defined Equipment

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

11.0 Vegetation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|-----------------------|-------|---------------|-------------|--------------------|------------|
| Single Family Housing | 92.00 | Dwelling Unit | 20.00 | 165,600.00 | 263 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.6 | Precipitation Freq (Days) | 30 |
| Climate Zone | 10 | | | Operational Year | 2024 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 390.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics -

Land Use - Lot acreage per site plan.

Construction Phase - No demolition phase; Arch Coating Schedule increased as development will take place over multiple phases.

Grading - Acres graded and import per earthwork volume analysis

Architectural Coating - VOC per MDAQMD Rules

Woodstoves - No wood fireplaces

Area Coating - VOC per MDAQMD Rules

Construction Off-road Equipment Mitigation - Construction mitigation for fugitive dust

| Table Name | Column Name | Default Value | New Value |
|-------------------------|-------------------------|---------------|-----------|
| tblArchitecturalCoating | EF_Residential_Exterior | 250.00 | 50.00 |
| tblArchitecturalCoating | EF_Residential_Interior | 250.00 | 50.00 |

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| | | | |
|------------------------|--------------------------------|-------|--------|
| tblAreaCoating | Area_EF_Residential_Exterior | 250 | 50 |
| tblAreaCoating | Area_EF_Residential_Interior | 250 | 50 |
| tblConstDustMitigation | CleanPavedRoadPercentReduction | 0 | 20 |
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 20 |
| tblConstructionPhase | NumDays | 20.00 | 40.00 |
| tblFireplaces | NumberGas | 50.60 | 90.80 |
| tblFireplaces | NumberWood | 32.20 | 0.00 |
| tblLandUse | LotAcreage | 29.87 | 20.00 |
| tblTripsAndVMT | HaulingTripNumber | 0.00 | 576.00 |

2.0 Emissions Summary

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | | | | | |
| 2022 | 0.1962 | 1.8737 | 1.7297 | 3.4300e-003 | 0.2669 | 0.0881 | 0.3551 | 0.1136 | 0.0823 | 0.1959 | 0.0000 | 300.8849 | 300.8849 | 0.0700 | 4.8400e-003 | 304.0776 |
| 2023 | 0.6725 | 1.3508 | 1.6100 | 2.8800e-003 | 0.0298 | 0.0647 | 0.0945 | 8.0500e-003 | 0.0608 | 0.0689 | 0.0000 | 250.8510 | 250.8510 | 0.0529 | 2.6900e-003 | 252.9761 |
| Maximum | 0.6725 | 1.8737 | 1.7297 | 3.4300e-003 | 0.2669 | 0.0881 | 0.3551 | 0.1136 | 0.0823 | 0.1959 | 0.0000 | 300.8849 | 300.8849 | 0.0700 | 4.8400e-003 | 304.0776 |

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 | | | | | |
| 2022 | 0.1962 | 1.8737 | 1.7297 | 3.4300e-003 | 0.1177 | 0.0881 | 0.2059 | 0.0481 | 0.0823 | 0.1304 | 0.0000 | 300.8846 | 300.8846 | 0.0700 | 4.8400e-003 | 304.0772 |
| 2023 | 0.6725 | 1.3508 | 1.6100 | 2.8800e-003 | 0.0248 | 0.0647 | 0.0895 | 6.8200e-003 | 0.0608 | 0.0676 | 0.0000 | 250.8508 | 250.8508 | 0.0529 | 2.6900e-003 | 252.9759 |
| Maximum | 0.6725 | 1.8737 | 1.7297 | 3.4300e-003 | 0.1177 | 0.0881 | 0.2059 | 0.0481 | 0.0823 | 0.1304 | 0.0000 | 300.8846 | 300.8846 | 0.0700 | 4.8400e-003 | 304.0772 |

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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 | 51.96 | 0.00 | 34.30 | 54.85 | 0.00 | 25.20 | 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 | 5-2-2022 | 8-1-2022 | 1.0734 | 1.0734 |
| 2 | 8-2-2022 | 11-1-2022 | 0.5900 | 0.5900 |
| 3 | 11-2-2022 | 2-1-2023 | 0.5736 | 0.5736 |
| 4 | 2-2-2023 | 5-1-2023 | 0.5246 | 0.5246 |
| 5 | 5-2-2023 | 8-1-2023 | 0.5421 | 0.5421 |
| 6 | 8-2-2023 | 9-30-2023 | 0.3602 | 0.3602 |
| | | Highest | 1.0734 | 1.0734 |

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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 | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |
| Energy | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 268.8236 | 268.8236 | 0.0136 | 3.8800e-003 | 270.3193 |
| Mobile | 0.4392 | 0.6973 | 4.2164 | 8.8500e-003 | 0.9196 | 7.8600e-003 | 0.9275 | 0.2455 | 7.3800e-003 | 0.2529 | 0.0000 | 830.1219 | 830.1219 | 0.0481 | 0.0445 | 844.5690 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 21.8885 | 0.0000 | 21.8885 | 1.2936 | 0.0000 | 54.2279 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.9017 | 21.2875 | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |
| Total | 1.2733 | 0.9008 | 5.8279 | 0.0128 | 0.9196 | 0.1652 | 1.0848 | 0.2455 | 0.1647 | 0.4102 | 42.3867 | 1,192.8674 | 1,235.2541 | 1.6418 | 0.0545 | 1,292.5286 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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 | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |
| Energy | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 268.8236 | 268.8236 | 0.0136 | 3.8800e-003 | 270.3193 |
| Mobile | 0.4392 | 0.6973 | 4.2164 | 8.8500e-003 | 0.9196 | 7.8600e-003 | 0.9275 | 0.2455 | 7.3800e-003 | 0.2529 | 0.0000 | 830.1219 | 830.1219 | 0.0481 | 0.0445 | 844.5690 |
| Waste | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 21.8885 | 0.0000 | 21.8885 | 1.2936 | 0.0000 | 54.2279 |
| Water | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 1.9017 | 21.2875 | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |
| Total | 1.2733 | 0.9008 | 5.8279 | 0.0128 | 0.9196 | 0.1652 | 1.0848 | 0.2455 | 0.1647 | 0.4102 | 42.3867 | 1,192.8674 | 1,235.2541 | 1.6418 | 0.0545 | 1,292.5286 |

| | ROG | NOx | CO | SO2 | 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 | Site Preparation | Site Preparation | 5/2/2022 | 5/13/2022 | 5 | 10 | |
| 2 | Grading | Grading | 5/14/2022 | 6/24/2022 | 5 | 30 | |
| 3 | Building Construction | Building Construction | 6/25/2022 | 8/18/2023 | 5 | 300 | |

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| | | | | | | |
|---|-----------------------|-----------------------|-----------|------------|---|----|
| 4 | Paving | Paving | 8/19/2023 | 9/15/2023 | 5 | 20 |
| 5 | Architectural Coating | Architectural Coating | 9/16/2023 | 11/10/2023 | 5 | 40 |

Acres of Grading (Site Preparation Phase): 15

Acres of Grading (Grading Phase): 90

Acres of Paving: 0

Residential Indoor: 335,340; Residential Outdoor: 111,780; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |
| 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 | Air Compressors | 1 | 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 |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 576.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 33.00 | 10.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 7.00 | 0.00 | 0.00 | 10.80 | 7.30 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

Clean Paved Roads

3.2 Site Preparation - 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 | | | | | |
| Fugitive Dust | | | | | 0.0983 | 0.0000 | 0.0983 | 0.0505 | 0.0000 | 0.0505 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0159 | 0.1654 | 0.0985 | 1.9000e-004 | | 8.0600e-003 | 8.0600e-003 | | 7.4200e-003 | 7.4200e-003 | 0.0000 | 16.7197 | 16.7197 | 5.4100e-003 | 0.0000 | 16.8549 |
| Total | 0.0159 | 0.1654 | 0.0985 | 1.9000e-004 | 0.0983 | 8.0600e-003 | 0.1064 | 0.0505 | 7.4200e-003 | 0.0579 | 0.0000 | 16.7197 | 16.7197 | 5.4100e-003 | 0.0000 | 16.8549 |

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3.2 Site Preparation - 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 | 3.0000e-004 | 2.2000e-004 | 2.3800e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5807 | 0.5807 | 2.0000e-005 | 2.0000e-005 | 0.5867 |
| Total | 3.0000e-004 | 2.2000e-004 | 2.3800e-003 | 1.0000e-005 | 7.3000e-004 | 0.0000 | 7.3000e-004 | 1.9000e-004 | 0.0000 | 2.0000e-004 | 0.0000 | 0.5807 | 0.5807 | 2.0000e-005 | 2.0000e-005 | 0.5867 |

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 | | | | | 0.0383 | 0.0000 | 0.0383 | 0.0197 | 0.0000 | 0.0197 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0159 | 0.1654 | 0.0985 | 1.9000e-004 | | 8.0600e-003 | 8.0600e-003 | | 7.4200e-003 | 7.4200e-003 | 0.0000 | 16.7197 | 16.7197 | 5.4100e-003 | 0.0000 | 16.8549 |
| Total | 0.0159 | 0.1654 | 0.0985 | 1.9000e-004 | 0.0383 | 8.0600e-003 | 0.0464 | 0.0197 | 7.4200e-003 | 0.0271 | 0.0000 | 16.7197 | 16.7197 | 5.4100e-003 | 0.0000 | 16.8549 |

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3.2 Site Preparation - 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 | 3.0000e-004 | 2.2000e-004 | 2.3800e-003 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.5807 | 0.5807 | 2.0000e-005 | 2.0000e-005 | 0.5867 |
| Total | 3.0000e-004 | 2.2000e-004 | 2.3800e-003 | 1.0000e-005 | 6.0000e-004 | 0.0000 | 6.0000e-004 | 1.6000e-004 | 0.0000 | 1.7000e-004 | 0.0000 | 0.5807 | 0.5807 | 2.0000e-005 | 2.0000e-005 | 0.5867 |

3.3 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 0.1381 | 0.0000 | 0.1381 | 0.0548 | 0.0000 | 0.0548 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0544 | 0.5827 | 0.4356 | 9.3000e-004 | | 0.0245 | 0.0245 | | 0.0226 | 0.0226 | 0.0000 | 81.8019 | 81.8019 | 0.0265 | 0.0000 | 82.4633 |
| Total | 0.0544 | 0.5827 | 0.4356 | 9.3000e-004 | 0.1381 | 0.0245 | 0.1626 | 0.0548 | 0.0226 | 0.0774 | 0.0000 | 81.8019 | 81.8019 | 0.0265 | 0.0000 | 82.4633 |

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3.3 Grading - 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 | 8.9000e-004 | 0.0361 | 8.8900e-003 | 1.7000e-004 | 4.9700e-003 | 4.5000e-004 | 5.4300e-003 | 1.3700e-003 | 4.3000e-004 | 1.8000e-003 | 0.0000 | 15.9493 | 15.9493 | 4.0000e-005 | 2.5100e-003 | 16.6973 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-003 | 7.3000e-004 | 7.9500e-003 | 2.0000e-005 | 2.4200e-003 | 1.0000e-005 | 2.4300e-003 | 6.4000e-004 | 1.0000e-005 | 6.5000e-004 | 0.0000 | 1.9358 | 1.9358 | 7.0000e-005 | 6.0000e-005 | 1.9558 |
| Total | 1.8900e-003 | 0.0368 | 0.0168 | 1.9000e-004 | 7.3900e-003 | 4.6000e-004 | 7.8600e-003 | 2.0100e-003 | 4.4000e-004 | 2.4500e-003 | 0.0000 | 17.8850 | 17.8850 | 1.1000e-004 | 2.5700e-003 | 18.6531 |

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 | | | | | 0.0538 | 0.0000 | 0.0538 | 0.0214 | 0.0000 | 0.0214 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 0.0544 | 0.5827 | 0.4356 | 9.3000e-004 | | 0.0245 | 0.0245 | | 0.0226 | 0.0226 | 0.0000 | 81.8018 | 81.8018 | 0.0265 | 0.0000 | 82.4632 |
| Total | 0.0544 | 0.5827 | 0.4356 | 9.3000e-004 | 0.0538 | 0.0245 | 0.0784 | 0.0214 | 0.0226 | 0.0439 | 0.0000 | 81.8018 | 81.8018 | 0.0265 | 0.0000 | 82.4632 |

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3.3 Grading - 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 | 8.9000e-004 | 0.0361 | 8.8900e-003 | 1.7000e-004 | 4.2300e-003 | 4.5000e-004 | 4.6800e-003 | 1.1800e-003 | 4.3000e-004 | 1.6200e-003 | 0.0000 | 15.9493 | 15.9493 | 4.0000e-005 | 2.5100e-003 | 16.6973 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 1.0000e-003 | 7.3000e-004 | 7.9500e-003 | 2.0000e-005 | 2.0000e-003 | 1.0000e-005 | 2.0100e-003 | 5.4000e-004 | 1.0000e-005 | 5.5000e-004 | 0.0000 | 1.9358 | 1.9358 | 7.0000e-005 | 6.0000e-005 | 1.9558 |
| Total | 1.8900e-003 | 0.0368 | 0.0168 | 1.9000e-004 | 6.2300e-003 | 4.6000e-004 | 6.6900e-003 | 1.7200e-003 | 4.4000e-004 | 2.1700e-003 | 0.0000 | 17.8850 | 17.8850 | 1.1000e-004 | 2.5700e-003 | 18.6531 |

3.4 Building Construction - 2022

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1152 | 1.0541 | 1.1045 | 1.8200e-003 | | 0.0546 | 0.0546 | | 0.0514 | 0.0514 | 0.0000 | 156.4145 | 156.4145 | 0.0375 | 0.0000 | 157.3514 |
| Total | 0.1152 | 1.0541 | 1.1045 | 1.8200e-003 | | 0.0546 | 0.0546 | | 0.0514 | 0.0514 | 0.0000 | 156.4145 | 156.4145 | 0.0375 | 0.0000 | 157.3514 |

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Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2300e-003 | 0.0291 | 0.0128 | 1.4000e-004 | 4.5100e-003 | 3.9000e-004 | 4.9000e-003 | 1.3000e-003 | 3.7000e-004 | 1.6700e-003 | 0.0000 | 13.1101 | 13.1101 | 7.0000e-005 | 1.8000e-003 | 13.6467 |
| Worker | 7.3900e-003 | 5.4000e-003 | 0.0590 | 1.6000e-004 | 0.0180 | 9.0000e-005 | 0.0181 | 4.7700e-003 | 8.0000e-005 | 4.8600e-003 | 0.0000 | 14.3729 | 14.3729 | 4.9000e-004 | 4.6000e-004 | 14.5215 |
| Total | 8.6200e-003 | 0.0345 | 0.0718 | 3.0000e-004 | 0.0225 | 4.8000e-004 | 0.0230 | 6.0700e-003 | 4.5000e-004 | 6.5300e-003 | 0.0000 | 27.4830 | 27.4830 | 5.6000e-004 | 2.2600e-003 | 28.1682 |

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 | 0.1152 | 1.0541 | 1.1045 | 1.8200e-003 | | 0.0546 | 0.0546 | | 0.0514 | 0.0514 | 0.0000 | 156.4144 | 156.4144 | 0.0375 | 0.0000 | 157.3512 |
| Total | 0.1152 | 1.0541 | 1.1045 | 1.8200e-003 | | 0.0546 | 0.0546 | | 0.0514 | 0.0514 | 0.0000 | 156.4144 | 156.4144 | 0.0375 | 0.0000 | 157.3512 |

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Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2300e-003 | 0.0291 | 0.0128 | 1.4000e-004 | 3.8700e-003 | 3.9000e-004 | 4.2600e-003 | 1.1500e-003 | 3.7000e-004 | 1.5100e-003 | 0.0000 | 13.1101 | 13.1101 | 7.0000e-005 | 1.8000e-003 | 13.6467 |
| Worker | 7.3900e-003 | 5.4000e-003 | 0.0590 | 1.6000e-004 | 0.0149 | 9.0000e-005 | 0.0150 | 4.0100e-003 | 8.0000e-005 | 4.0900e-003 | 0.0000 | 14.3729 | 14.3729 | 4.9000e-004 | 4.6000e-004 | 14.5215 |
| Total | 8.6200e-003 | 0.0345 | 0.0718 | 3.0000e-004 | 0.0187 | 4.8000e-004 | 0.0192 | 5.1600e-003 | 4.5000e-004 | 5.6000e-003 | 0.0000 | 27.4830 | 27.4830 | 5.6000e-004 | 2.2600e-003 | 28.1682 |

3.4 Building Construction - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.1298 | 1.1868 | 1.3401 | 2.2200e-003 | | 0.0577 | 0.0577 | | 0.0543 | 0.0543 | 0.0000 | 191.2389 | 191.2389 | 0.0455 | 0.0000 | 192.3762 |
| Total | 0.1298 | 1.1868 | 1.3401 | 2.2200e-003 | | 0.0577 | 0.0577 | | 0.0543 | 0.0543 | 0.0000 | 191.2389 | 191.2389 | 0.0455 | 0.0000 | 192.3762 |

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Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2200e-003 | 0.0297 | 0.0146 | 1.6000e-004 | 5.5100e-003 | 2.9000e-004 | 5.8000e-003 | 1.5900e-003 | 2.7000e-004 | 1.8600e-003 | 0.0000 | 15.5539 | 15.5539 | 7.0000e-005 | 2.1200e-003 | 16.1875 |
| Worker | 8.3400e-003 | 5.8100e-003 | 0.0662 | 1.8000e-004 | 0.0220 | 1.1000e-004 | 0.0221 | 5.8300e-003 | 1.0000e-004 | 5.9300e-003 | 0.0000 | 17.1030 | 17.1030 | 5.4000e-004 | 5.2000e-004 | 17.2699 |
| Total | 9.5600e-003 | 0.0355 | 0.0808 | 3.4000e-004 | 0.0275 | 4.0000e-004 | 0.0279 | 7.4200e-003 | 3.7000e-004 | 7.7900e-003 | 0.0000 | 32.6569 | 32.6569 | 6.1000e-004 | 2.6400e-003 | 33.4574 |

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 | 0.1298 | 1.1868 | 1.3401 | 2.2200e-003 | | 0.0577 | 0.0577 | | 0.0543 | 0.0543 | 0.0000 | 191.2387 | 191.2387 | 0.0455 | 0.0000 | 192.3760 |
| Total | 0.1298 | 1.1868 | 1.3401 | 2.2200e-003 | | 0.0577 | 0.0577 | | 0.0543 | 0.0543 | 0.0000 | 191.2387 | 191.2387 | 0.0455 | 0.0000 | 192.3760 |

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3.4 Building Construction - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|---------------|---------------|--------------------|---------------|--------------------|---------------|--------------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|--------------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 1.2200e-003 | 0.0297 | 0.0146 | 1.6000e-004 | 4.7300e-003 | 2.9000e-004 | 5.0200e-003 | 1.4000e-003 | 2.7000e-004 | 1.6700e-003 | 0.0000 | 15.5539 | 15.5539 | 7.0000e-005 | 2.1200e-003 | 16.1875 |
| Worker | 8.3400e-003 | 5.8100e-003 | 0.0662 | 1.8000e-004 | 0.0182 | 1.1000e-004 | 0.0183 | 4.9000e-003 | 1.0000e-004 | 5.0000e-003 | 0.0000 | 17.1030 | 17.1030 | 5.4000e-004 | 5.2000e-004 | 17.2699 |
| Total | 9.5600e-003 | 0.0355 | 0.0808 | 3.4000e-004 | 0.0229 | 4.0000e-004 | 0.0233 | 6.3000e-003 | 3.7000e-004 | 6.6700e-003 | 0.0000 | 32.6569 | 32.6569 | 6.1000e-004 | 2.6400e-003 | 33.4574 |

3.5 Paving - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|----------------|----------------|--------------------|---------------|----------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Off-Road | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0269 | 20.0269 | 6.4800e-003 | 0.0000 | 20.1888 |

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3.5 Paving - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.6400e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9423 | 0.9423 | 3.0000e-005 | 3.0000e-005 | 0.9515 |
| Total | 4.6000e-004 | 3.2000e-004 | 3.6400e-003 | 1.0000e-005 | 1.2100e-003 | 1.0000e-005 | 1.2200e-003 | 3.2000e-004 | 1.0000e-005 | 3.3000e-004 | 0.0000 | 0.9423 | 0.9423 | 3.0000e-005 | 3.0000e-005 | 0.9515 |

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 | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |
| Paving | 0.0000 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | 0.0103 | 0.1019 | 0.1458 | 2.3000e-004 | | 5.1000e-003 | 5.1000e-003 | | 4.6900e-003 | 4.6900e-003 | 0.0000 | 20.0268 | 20.0268 | 6.4800e-003 | 0.0000 | 20.1888 |

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3.5 Paving - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.6000e-004 | 3.2000e-004 | 3.6400e-003 | 1.0000e-005 | 1.0000e-003 | 1.0000e-005 | 1.0100e-003 | 2.7000e-004 | 1.0000e-005 | 2.8000e-004 | 0.0000 | 0.9423 | 0.9423 | 3.0000e-005 | 3.0000e-005 | 0.9515 |
| Total | 4.6000e-004 | 3.2000e-004 | 3.6400e-003 | 1.0000e-005 | 1.0000e-003 | 1.0000e-005 | 1.0100e-003 | 2.7000e-004 | 1.0000e-005 | 2.8000e-004 | 0.0000 | 0.9423 | 0.9423 | 3.0000e-005 | 3.0000e-005 | 0.9515 |

3.6 Architectural Coating - 2023

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|---------------|---------------|---------------|--------------------|---------------|--------------------|--------------------|----------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|---------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Archit. Coating | 0.5181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8300e-003 | 0.0261 | 0.0362 | 6.0000e-005 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.1065 | 5.1065 | 3.1000e-004 | 0.0000 | 5.1142 |
| Total | 0.5219 | 0.0261 | 0.0362 | 6.0000e-005 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.1065 | 5.1065 | 3.1000e-004 | 0.0000 | 5.1142 |

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3.6 Architectural Coating - 2023

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-004 | 3.0000e-004 | 3.4000e-003 | 1.0000e-005 | 1.1300e-003 | 1.0000e-005 | 1.1300e-003 | 3.0000e-004 | 1.0000e-005 | 3.1000e-004 | 0.0000 | 0.8795 | 0.8795 | 3.0000e-005 | 3.0000e-005 | 0.8881 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.4000e-003 | 1.0000e-005 | 1.1300e-003 | 1.0000e-005 | 1.1300e-003 | 3.0000e-004 | 1.0000e-005 | 3.1000e-004 | 0.0000 | 0.8795 | 0.8795 | 3.0000e-005 | 3.0000e-005 | 0.8881 |

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 | 0.5181 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Off-Road | 3.8300e-003 | 0.0261 | 0.0362 | 6.0000e-005 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.1065 | 5.1065 | 3.1000e-004 | 0.0000 | 5.1141 |
| Total | 0.5219 | 0.0261 | 0.0362 | 6.0000e-005 | | 1.4200e-003 | 1.4200e-003 | | 1.4200e-003 | 1.4200e-003 | 0.0000 | 5.1065 | 5.1065 | 3.1000e-004 | 0.0000 | 5.1141 |

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3.6 Architectural Coating - 2023

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|---------------|---------------|--------------------|--------------------|---------------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Worker | 4.3000e-004 | 3.0000e-004 | 3.4000e-003 | 1.0000e-005 | 9.3000e-004 | 1.0000e-005 | 9.4000e-004 | 2.5000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.8795 | 0.8795 | 3.0000e-005 | 3.0000e-005 | 0.8881 |
| Total | 4.3000e-004 | 3.0000e-004 | 3.4000e-003 | 1.0000e-005 | 9.3000e-004 | 1.0000e-005 | 9.4000e-004 | 2.5000e-004 | 1.0000e-005 | 2.6000e-004 | 0.0000 | 0.8795 | 0.8795 | 3.0000e-005 | 3.0000e-005 | 0.8881 |

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4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Mitigated | 0.4392 | 0.6973 | 4.2164 | 8.8500e-003 | 0.9196 | 7.8600e-003 | 0.9275 | 0.2455 | 7.3800e-003 | 0.2529 | 0.0000 | 830.1219 | 830.1219 | 0.0481 | 0.0445 | 844.5690 |
| Unmitigated | 0.4392 | 0.6973 | 4.2164 | 8.8500e-003 | 0.9196 | 7.8600e-003 | 0.9275 | 0.2455 | 7.3800e-003 | 0.2529 | 0.0000 | 830.1219 | 830.1219 | 0.0481 | 0.0445 | 844.5690 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|-----------------------|-------------------------|----------|--------|-------------|------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Single Family Housing | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |
| Total | 868.48 | 877.68 | 786.60 | 2,437,099 | 2,437,099 |

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 |
| Single Family Housing | 10.80 | 7.30 | 7.50 | 40.20 | 19.20 | 40.60 | 86 | 11 | 3 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Single Family Housing | 0.530590 | 0.056931 | 0.174803 | 0.137616 | 0.029294 | 0.007692 | 0.006155 | 0.022126 | 0.000483 | 0.000158 | 0.027801 | 0.000928 | 0.005423 |

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5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-------------|----------|
| Category | tons/yr | | | | | | | | | | MT/yr | | | | | |
| Electricity Mitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 129.9497 | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |
| Electricity Unmitigated | | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 129.9497 | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |
| NaturalGas Mitigated | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |
| NaturalGas Unmitigated | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |

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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 | | | | | |
| Single Family Housing | 2.6024e+006 | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |
| Total | | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |

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 | | | | | |
| Single Family Housing | 2.6024e+006 | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |
| Total | | 0.0140 | 0.1199 | 0.0510 | 7.7000e-004 | | 9.7000e-003 | 9.7000e-003 | | 9.7000e-003 | 9.7000e-003 | 0.0000 | 138.8739 | 138.8739 | 2.6600e-003 | 2.5500e-003 | 139.6992 |

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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 | | | |
| Single Family Housing | 732749 | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |
| Total | | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |

Mitigated

| | Electricity Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use | kWh/yr | MT/yr | | | |
| Single Family Housing | 732749 | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |
| Total | | 129.9497 | 0.0110 | 1.3300e-003 | 130.6201 |

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 | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |
| Unmitigated | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |

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 | 0.0518 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6468 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.1010 | 0.0756 | 0.8776 | 3.1700e-003 | | 0.1439 | 0.1439 | | 0.1439 | 0.1439 | 18.5965 | 71.5186 | 90.1151 | 0.0883 | 1.3100e-003 | 92.7135 |
| Landscaping | 0.0205 | 7.8700e-003 | 0.6828 | 4.0000e-005 | | 3.7800e-003 | 3.7800e-003 | | 3.7800e-003 | 3.7800e-003 | 0.0000 | 1.1159 | 1.1159 | 1.0700e-003 | 0.0000 | 1.1426 |
| Total | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |

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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 | 0.0518 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Consumer Products | 0.6468 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Hearth | 0.1010 | 0.0756 | 0.8776 | 3.1700e-003 | | 0.1439 | 0.1439 | | 0.1439 | 0.1439 | 18.5965 | 71.5186 | 90.1151 | 0.0883 | 1.3100e-003 | 92.7135 |
| Landscaping | 0.0205 | 7.8700e-003 | 0.6828 | 4.0000e-005 | | 3.7800e-003 | 3.7800e-003 | | 3.7800e-003 | 3.7800e-003 | 0.0000 | 1.1159 | 1.1159 | 1.0700e-003 | 0.0000 | 1.1426 |
| Total | 0.8201 | 0.0835 | 1.5605 | 3.2100e-003 | | 0.1477 | 0.1477 | | 0.1477 | 0.1477 | 18.5965 | 72.6345 | 91.2310 | 0.0894 | 1.3100e-003 | 93.8561 |

7.0 Water Detail

7.1 Mitigation Measures Water

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| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|-------------|---------|
| Category | MT/yr | | | |
| Mitigated | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |
| Unmitigated | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |

7.2 Water by Land Use

Unmitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 5.99417 / 3.77893 | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |
| Total | | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |

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7.2 Water by Land Use

Mitigated

| | Indoor/Outdoor Use | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|--------------------|----------------|---------------|--------------------|----------------|
| Land Use | Mgal | MT/yr | | | |
| Single Family Housing | 5.99417 / 3.77893 | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |
| Total | | 23.1892 | 0.1971 | 4.8300e-003 | 29.5564 |

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

| | Total CO2 | CH4 | N2O | CO2e |
|-------------|-----------|--------|--------|---------|
| | MT/yr | | | |
| Mitigated | 21.8885 | 1.2936 | 0.0000 | 54.2279 |
| Unmitigated | 21.8885 | 1.2936 | 0.0000 | 54.2279 |

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8.2 Waste by Land Use

Unmitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 107.83 | 21.8885 | 1.2936 | 0.0000 | 54.2279 |
| Total | | 21.8885 | 1.2936 | 0.0000 | 54.2279 |

Mitigated

| | Waste Disposed | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|----------------|---------------|---------------|----------------|
| Land Use | tons | MT/yr | | | |
| Single Family Housing | 107.83 | 21.8885 | 1.2936 | 0.0000 | 54.2279 |
| Total | | 21.8885 | 1.2936 | 0.0000 | 54.2279 |

9.0 Operational Offroad

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

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

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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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

Mojave Desert AQMD Air District, Mitigation Report

Construction Mitigation Summary

| Phase | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|-----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Grading | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Site Preparation | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

OFFROAD Equipment Mitigation

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | Fuel Type | Tier | Number Mitigated | Total Number of Equipment | DPF | Oxidation Catalyst |
|---------------------------|-----------|-----------|------------------|---------------------------|-----------|--------------------|
| Air Compressors | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Cranes | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Excavators | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Forklifts | Diesel | No Change | 0 | 3 | No Change | 0.00 |
| Generator Sets | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Graders | Diesel | No Change | 0 | 1 | No Change | 0.00 |
| Pavers | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Paving Equipment | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Rollers | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Rubber Tired Dozers | Diesel | No Change | 0 | 4 | No Change | 0.00 |
| Scrapers | Diesel | No Change | 0 | 2 | No Change | 0.00 |
| Tractors/Loaders/Backhoes | Diesel | No Change | 0 | 9 | No Change | 0.00 |
| Welders | Diesel | No Change | 0 | 1 | No Change | 0.00 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-------------------|--------------|--------------|--------------|--------------|--------------|
| Unmitigated tons/yr | | | | | | | Unmitigated mt/yr | | | | | |
| Air Compressors | 3.83000E-003 | 2.60600E-002 | 3.62200E-002 | 6.00000E-005 | 1.42000E-003 | 1.42000E-003 | 0.00000E+000 | 5.10651E+000 | 5.10651E+000 | 3.10000E-004 | 0.00000E+000 | 5.11415E+000 |
| Cranes | 4.74000E-002 | 5.22570E-001 | 2.44190E-001 | 7.60000E-004 | 2.17600E-002 | 2.00200E-002 | 0.00000E+000 | 6.65381E+001 | 6.65381E+001 | 2.15200E-002 | 0.00000E+000 | 6.70761E+001 |
| Excavators | 6.07000E-003 | 5.33100E-002 | 9.76500E-002 | 1.50000E-004 | 2.58000E-003 | 2.37000E-003 | 0.00000E+000 | 1.36082E+001 | 1.36082E+001 | 4.40000E-003 | 0.00000E+000 | 1.37182E+001 |
| Forklifts | 4.83800E-002 | 4.51140E-001 | 5.16970E-001 | 6.90000E-004 | 2.88300E-002 | 2.65200E-002 | 0.00000E+000 | 6.04311E+001 | 6.04311E+001 | 1.95400E-002 | 0.00000E+000 | 6.09197E+001 |
| Generator Sets | 4.75100E-002 | 4.21690E-001 | 5.50850E-001 | 9.90000E-004 | 2.05000E-002 | 2.05000E-002 | 0.00000E+000 | 8.47811E+001 | 8.47811E+001 | 3.86000E-003 | 0.00000E+000 | 8.48777E+001 |
| Graders | 6.22000E-003 | 7.88600E-002 | 2.58300E-002 | 1.00000E-004 | 2.51000E-003 | 2.31000E-003 | 0.00000E+000 | 8.72638E+000 | 8.72638E+000 | 2.82000E-003 | 0.00000E+000 | 8.79693E+000 |
| Pavers | 3.84000E-003 | 3.76600E-002 | 5.76600E-002 | 9.00000E-005 | 1.77000E-003 | 1.63000E-003 | 0.00000E+000 | 8.25932E+000 | 8.25932E+000 | 2.67000E-003 | 0.00000E+000 | 8.32611E+000 |
| Paving Equipment | 3.41000E-003 | 3.20600E-002 | 5.11300E-002 | 8.00000E-005 | 1.56000E-003 | 1.43000E-003 | 0.00000E+000 | 7.15709E+000 | 7.15709E+000 | 2.31000E-003 | 0.00000E+000 | 7.21496E+000 |
| Rollers | 3.07000E-003 | 3.22000E-002 | 3.70400E-002 | 5.00000E-005 | 1.77000E-003 | 1.63000E-003 | 0.00000E+000 | 4.61045E+000 | 4.61045E+000 | 1.49000E-003 | 0.00000E+000 | 4.64773E+000 |
| Rubber Tired Dozers | 2.51100E-002 | 2.63810E-001 | 1.07460E-001 | 2.60000E-004 | 1.25200E-002 | 1.15200E-002 | 0.00000E+000 | 2.25082E+001 | 2.25082E+001 | 7.28000E-003 | 0.00000E+000 | 2.26902E+001 |
| Scrapers | 2.45800E-002 | 2.68300E-001 | 1.91270E-001 | 4.60000E-004 | 1.04700E-002 | 9.64000E-003 | 0.00000E+000 | 4.00149E+001 | 4.00149E+001 | 1.29400E-002 | 0.00000E+000 | 4.03384E+001 |
| Tractors/Loaders/Backhoes | 7.02000E-002 | 7.13260E-001 | 9.91650E-001 | 1.38000E-003 | 3.68900E-002 | 3.39400E-002 | 0.00000E+000 | 1.21334E+002 | 1.21334E+002 | 3.92400E-002 | 0.00000E+000 | 1.22315E+002 |
| Welders | 3.96700E-002 | 2.15940E-001 | 2.52900E-001 | 3.80000E-004 | 8.86000E-003 | 8.86000E-003 | 0.00000E+000 | 2.82331E+001 | 2.82331E+001 | 3.21000E-003 | 0.00000E+000 | 2.83135E+001 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|-----------------|--------------|--------------|--------------|--------------|--------------|
| Mitigated tons/yr | | | | | | | Mitigated mt/yr | | | | | |
| Air Compressors | 3.83000E-003 | 2.60600E-002 | 3.62200E-002 | 6.00000E-005 | 1.42000E-003 | 1.42000E-003 | 0.00000E+000 | 5.10650E+000 | 5.10650E+000 | 3.10000E-004 | 0.00000E+000 | 5.11414E+000 |
| Cranes | 4.74000E-002 | 5.22570E-001 | 2.44190E-001 | 7.60000E-004 | 2.17600E-002 | 2.00200E-002 | 0.00000E+000 | 6.65380E+001 | 6.65380E+001 | 2.15200E-002 | 0.00000E+000 | 6.70760E+001 |
| Excavators | 6.07000E-003 | 5.33100E-002 | 9.76500E-002 | 1.50000E-004 | 2.58000E-003 | 2.37000E-003 | 0.00000E+000 | 1.36082E+001 | 1.36082E+001 | 4.40000E-003 | 0.00000E+000 | 1.37182E+001 |
| Forklifts | 4.83800E-002 | 4.51140E-001 | 5.16970E-001 | 6.90000E-004 | 2.88300E-002 | 2.65200E-002 | 0.00000E+000 | 6.04310E+001 | 6.04310E+001 | 1.95400E-002 | 0.00000E+000 | 6.09196E+001 |
| Generator Sets | 4.75100E-002 | 4.21690E-001 | 5.50850E-001 | 9.90000E-004 | 2.05000E-002 | 2.05000E-002 | 0.00000E+000 | 8.47810E+001 | 8.47810E+001 | 3.86000E-003 | 0.00000E+000 | 8.48776E+001 |
| Graders | 6.22000E-003 | 7.88600E-002 | 2.58300E-002 | 1.00000E-004 | 2.51000E-003 | 2.31000E-003 | 0.00000E+000 | 8.72637E+000 | 8.72637E+000 | 2.82000E-003 | 0.00000E+000 | 8.79692E+000 |
| Pavers | 3.84000E-003 | 3.76600E-002 | 5.76600E-002 | 9.00000E-005 | 1.77000E-003 | 1.63000E-003 | 0.00000E+000 | 8.25931E+000 | 8.25931E+000 | 2.67000E-003 | 0.00000E+000 | 8.32610E+000 |
| Paving Equipment | 3.41000E-003 | 3.20600E-002 | 5.11300E-002 | 8.00000E-005 | 1.56000E-003 | 1.43000E-003 | 0.00000E+000 | 7.15708E+000 | 7.15708E+000 | 2.31000E-003 | 0.00000E+000 | 7.21495E+000 |
| Rollers | 3.07000E-003 | 3.22000E-002 | 3.70400E-002 | 5.00000E-005 | 1.77000E-003 | 1.63000E-003 | 0.00000E+000 | 4.61045E+000 | 4.61045E+000 | 1.49000E-003 | 0.00000E+000 | 4.64772E+000 |
| Rubber Tired Dozers | 2.51100E-002 | 2.63810E-001 | 1.07460E-001 | 2.60000E-004 | 1.25200E-002 | 1.15200E-002 | 0.00000E+000 | 2.25082E+001 | 2.25082E+001 | 7.28000E-003 | 0.00000E+000 | 2.26902E+001 |
| Scrapers | 2.45800E-002 | 2.68300E-001 | 1.91270E-001 | 4.60000E-004 | 1.04700E-002 | 9.64000E-003 | 0.00000E+000 | 4.00148E+001 | 4.00148E+001 | 1.29400E-002 | 0.00000E+000 | 4.03383E+001 |
| Tractors/Loaders/Balckhoes | 7.02000E-002 | 7.13250E-001 | 9.91650E-001 | 1.38000E-003 | 3.68900E-002 | 3.39400E-002 | 0.00000E+000 | 1.21334E+002 | 1.21334E+002 | 3.92400E-002 | 0.00000E+000 | 1.22315E+002 |
| Welders | 3.96700E-002 | 2.15940E-001 | 2.52900E-001 | 3.80000E-004 | 8.86000E-003 | 8.86000E-003 | 0.00000E+000 | 2.82331E+001 | 2.82331E+001 | 3.21000E-003 | 0.00000E+000 | 2.83134E+001 |

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EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Applied

| Equipment Type | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|--------------|--------------|--------------|--------------|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Percent Reduction | | | | | | | | | | | | |
| Air Compressors | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.95828E-006 | 1.95828E-006 | 0.00000E+000 | 0.00000E+000 | 1.95536E-006 |
| Cranes | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.20232E-006 | 1.20232E-006 | 0.00000E+000 | 0.00000E+000 | 1.19268E-006 |
| Excavators | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.46970E-006 | 1.46970E-006 | 0.00000E+000 | 0.00000E+000 | 1.45792E-006 |
| Forklifts | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.15834E-006 | 1.15834E-006 | 0.00000E+000 | 0.00000E+000 | 1.31320E-006 |
| Generator Sets | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.17951E-006 | 1.17951E-006 | 0.00000E+000 | 0.00000E+000 | 1.17817E-006 |
| Graders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.14595E-006 | 1.14595E-006 | 0.00000E+000 | 0.00000E+000 | 1.13676E-006 |
| Pavers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.21075E-006 | 1.21075E-006 | 0.00000E+000 | 0.00000E+000 | 1.20104E-006 |
| Paving Equipment | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.39722E-006 | 1.39722E-006 | 0.00000E+000 | 0.00000E+000 | 1.38601E-006 |
| Rollers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 2.15159E-006 |
| Rubber Tired Dozers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.33285E-006 | 1.33285E-006 | 0.00000E+000 | 0.00000E+000 | 1.32216E-006 |
| Scrapers | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.24954E-006 | 1.24954E-006 | 0.00000E+000 | 0.00000E+000 | 1.23951E-006 |
| Tractors/Loaders/Balckhoes | 0.00000E+000 | 1.40201E-005 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.23626E-006 | 1.23626E-006 | 0.00000E+000 | 0.00000E+000 | 1.22634E-006 |
| Welders | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 0.00000E+000 | 1.06258E-006 | 1.06258E-006 | 0.00000E+000 | 0.00000E+000 | 1.05957E-006 |

Fugitive Dust Mitigation

Yes/No Mitigation Measure Mitigation Input Mitigation Input Mitigation Input

| | | | | | |
|----|-----------------------------------|----------------|------|-----------------|------|
| No | Soil Stabilizer for unpaved Roads | PM10 Reduction | 0.00 | PM2.5 Reduction | 0.00 |
|----|-----------------------------------|----------------|------|-----------------|------|

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| | | | | | | | |
|-----|--|--------------------|-------|---------------------|-------|---------------------|------|
| No | Replace Ground Cover of Area Disturbed | PM10 Reduction | 0.00 | PM2.5 Reduction | 0.00 | | |
| Yes | Water Exposed Area | PM10 Reduction | 61.00 | PM2.5 Reduction | 61.00 | Frequency (per day) | 3.00 |
| No | Unpaved Road Mitigation | Moisture Content % | 0.00 | Vehicle Speed (mph) | 20.00 | | |
| Yes | Clean Paved Road | % PM Reduction | 20.00 | | | | |

| Phase | Source | Unmitigated | | Mitigated | | Percent Reduction | |
|-----------------------|---------------|-------------|-------|-----------|-------|-------------------|-------|
| | | PM10 | PM2.5 | PM10 | PM2.5 | PM10 | PM2.5 |
| Architectural Coating | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Architectural Coating | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.17 |
| Building Construction | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Building Construction | Roads | 0.05 | 0.01 | 0.04 | 0.01 | 0.17 | 0.15 |
| Grading | Fugitive Dust | 0.14 | 0.05 | 0.05 | 0.02 | 0.61 | 0.61 |
| Grading | Roads | 0.01 | 0.00 | 0.01 | 0.00 | 0.16 | 0.14 |
| Paving | Fugitive Dust | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Paving | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.17 | 0.16 |
| Site Preparation | Fugitive Dust | 0.10 | 0.05 | 0.04 | 0.02 | 0.61 | 0.61 |
| Site Preparation | Roads | 0.00 | 0.00 | 0.00 | 0.00 | 0.18 | 0.16 |

Operational Percent Reduction Summary

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| Category | ROG | NOx | CO | SO2 | Exhaust PM10 | Exhaust PM2.5 | Bio- CO2 | NBio-CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|------|------|------|------|--------------|---------------|----------|----------|-----------|------|------|------|
| Percent Reduction | | | | | | | | | | | | |
| Architectural Coating | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Consumer Products | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Hearth | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Landscaping | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Mobile | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Natural Gas | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Water Indoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Water Outdoor | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Operational Mobile Mitigation

Project Setting:

| Mitigation | Category | Measure | % Reduction | Input Value 1 | Input Value 2 | Input Value 3 |
|------------|----------|-------------------------------------|-------------|---------------|---------------|---------------|
| No | Land Use | Increase Density | 0.00 | | | |
| No | Land Use | Increase Diversity | -0.01 | 0.13 | | |
| No | Land Use | Improve Walkability Design | 0.00 | | | |
| No | Land Use | Improve Destination Accessibility | 0.00 | | | |
| No | Land Use | Increase Transit Accessibility | 0.25 | | | |
| No | Land Use | Integrate Below Market Rate Housing | 0.00 | | | |
| | Land Use | Land Use SubTotal | 0.00 | | | |

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| | | | | | |
|----|---------------------------|--|------|--|------|
| No | Neighborhood Enhancements | Improve Pedestrian Network | | | |
| No | Neighborhood Enhancements | Provide Traffic Calming Measures | | | |
| No | Neighborhood Enhancements | Implement NEV Network | 0.00 | | |
| | Neighborhood Enhancements | Neighborhood Enhancements Subtotal | 0.00 | | |
| No | Parking Policy Pricing | Limit Parking Supply | 0.00 | | |
| No | Parking Policy Pricing | Unbundle Parking Costs | 0.00 | | |
| No | Parking Policy Pricing | On-street Market Pricing | 0.00 | | |
| | Parking Policy Pricing | Parking Policy Pricing Subtotal | 0.00 | | |
| No | Transit Improvements | Provide BRT System | 0.00 | | |
| No | Transit Improvements | Expand Transit Network | 0.00 | | |
| No | Transit Improvements | Increase Transit Frequency | 0.00 | | |
| | Transit Improvements | Transit Improvements Subtotal | 0.00 | | |
| | | Land Use and Site Enhancement Subtotal | 0.00 | | |
| No | Commute | Implement Trip Reduction Program | | | |
| No | Commute | Transit Subsidy | | | |
| No | Commute | Implement Employee Parking "Cash Out" | | | |
| No | Commute | Workplace Parking Charge | | | |
| No | Commute | Encourage Telecommuting and Alternative Work Schedules | 0.00 | | |
| No | Commute | Market Commute Trip Reduction Option | 0.00 | | |
| No | Commute | Employee Vanpool/Shuttle | 0.00 | | 2.00 |

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| | | | | | |
|----|-------------|------------------------------|------|--|--|
| No | Commute | Provide Ride Sharing Program | | | |
| | Commute | Commute Subtotal | 0.00 | | |
| No | School Trip | Implement School Bus Program | 0.00 | | |
| | | Total VMT Reduction | 0.00 | | |

Area Mitigation

| Measure Implemented | Mitigation Measure | Input Value |
|---------------------|--|-------------|
| No | Only Natural Gas Hearth | |
| No | No Hearth | |
| No | Use Low VOC Cleaning Supplies | |
| No | Use Low VOC Paint (Residential Interior) | 50.00 |
| No | Use Low VOC Paint (Residential Exterior) | 50.00 |
| No | Use Low VOC Paint (Non-residential Interior) | 250.00 |
| No | Use Low VOC Paint (Non-residential Exterior) | 250.00 |
| No | Use Low VOC Paint (Parking) | 250.00 |
| No | % Electric Lawnmower | |
| No | % Electric Leafblower | |
| No | % Electric Chainsaw | |

Energy Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--------------------|---------------|---------------|
| No | Exceed Title 24 | | |

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| | | | |
|----|----------------------------------|--|--|
| No | Install High Efficiency Lighting | | |
| No | On-site Renewable | | |

| Appliance Type | Land Use Subtype | % Improvement |
|----------------|------------------|---------------|
| ClothWasher | | 30.00 |
| DishWasher | | 15.00 |
| Fan | | 50.00 |
| Refrigerator | | 15.00 |

Water Mitigation Measures

| Measure Implemented | Mitigation Measure | Input Value 1 | Input Value 2 |
|---------------------|--|---------------|---------------|
| No | Apply Water Conservation on Strategy | | |
| No | Use Reclaimed Water | | |
| No | Use Grey Water | | |
| No | Install low-flow bathroom faucet | 32.00 | |
| No | Install low-flow Kitchen faucet | 18.00 | |
| No | Install low-flow Toilet | 20.00 | |
| No | Install low-flow Shower | 20.00 | |
| No | Turf Reduction | | |
| No | Use Water Efficient Irrigation Systems | 6.10 | |
| No | Water Efficient Landscape | | |

Solid Waste Mitigation

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| Mitigation Measures | Input Value |
|--|-------------|
| Institute Recycling and Composting Services Percent Reduction in Waste Disposed | |