

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**4200 N. University Parkway Project
San Bernardino-South Coast County, Summer**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|--------|----------|-------------|--------------------|------------|
| Parking Lot | 215.00 | Space | 1.93 | 86,000.00 | 0 |
| Fast Food Restaurant with Drive Thru | 14.46 | 1000sqft | 0.33 | 14,458.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 32 |
| Climate Zone | 10 | | | Operational Year | 2025 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 531.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on 2019 Reported Factors

Land Use - Retail land use includes fast food restaurant with drive-through, coffee/donut shop with drive-through and automated car wash (with tunne)

Construction Phase - Based on preliminary construction schedule of April 2023 through February 2024

Grading - Conservative assumption of 7,600 cubic yards of import, based on current topography and pavement section.

Vehicle Trips - Based on total gross proposed project trip generation forecast of 5,196. Total net trips results in 3,896 (-1,300 pass-by trips).

Construction Off-road Equipment Mitigation - Fugitive Dust (Rule 403) Minimum requirements

Area Mitigation -

Water Mitigation -

Trips and VMT -

| Table Name | Column Name | Default Value | New Value |
|-------------------|----------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |

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| | | | |
|---------------------------|------------------------------|-----------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblGrading | MaterialImported | 0.00 | 7,600.00 |
| tblLandUse | LandUseSquareFeet | 14,460.00 | 14,458.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 390.98 | 531.98 |
| tblVehicleTrips | ST_TR | 616.12 | 470.17 |
| tblVehicleTrips | SU_TR | 472.58 | 360.63 |
| tblVehicleTrips | WD_TR | 470.95 | 359.39 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 1.8965 | 31.9052 | 16.0296 | 0.1105 | 10.1103 | 0.7881 | 10.8984 | 4.2364 | 0.7317 | 4.9681 | 0.0000 | 11,789.2369 | 11,789.2369 | 1.0614 | 1.5388 | 12,274.3203 |
| 2024 | 19.1744 | 22.8475 | 30.1214 | 0.0550 | 0.8291 | 1.0023 | 1.8313 | 0.2222 | 0.9485 | 1.1707 | 0.0000 | 5,220.8622 | 5,220.8622 | 1.0065 | 0.0592 | 5,263.6624 |
| Maximum | 19.1744 | 31.9052 | 30.1214 | 0.1105 | 10.1103 | 1.0023 | 10.8984 | 4.2364 | 0.9485 | 4.9681 | 0.0000 | 11,789.2369 | 11,789.2369 | 1.0614 | 1.5388 | 12,274.3203 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

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| Year | lb/day | | | | | | | | | | lb/day | | | | | |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| 2023 | 1.8965 | 31.9052 | 16.0296 | 0.1105 | 5.7026 | 0.7881 | 6.4906 | 2.1341 | 0.7317 | 2.8658 | 0.0000 | 11,789.2369 | 11,789.2369 | 1.0614 | 1.5388 | 12,274.3203 |
| 2024 | 19.1744 | 22.8475 | 30.1214 | 0.0550 | 0.8291 | 1.0023 | 1.8313 | 0.2222 | 0.9485 | 1.1707 | 0.0000 | 5,220.8622 | 5,220.8622 | 1.0065 | 0.0592 | 5,263.6624 |
| Maximum | 19.1744 | 31.9052 | 30.1214 | 0.1105 | 5.7026 | 1.0023 | 6.4906 | 2.1341 | 0.9485 | 2.8658 | 0.0000 | 11,789.2369 | 11,789.2369 | 1.0614 | 1.5388 | 12,274.3203 |

| | ROG | NOx | CO | SO2 | 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 | 40.29 | 0.00 | 34.63 | 47.15 | 0.00 | 34.25 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Energy | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| Mobile | 15.0579 | 12.1998 | 85.3835 | 0.1534 | 15.1069 | 0.1269 | 15.2338 | 4.0290 | 0.1185 | 4.1475 | | 15,648.6525 | 15,648.6525 | 1.2295 | 0.9557 | 15,964.1843 |
| Total | 15.5366 | 13.2589 | 86.2964 | 0.1597 | 15.1069 | 0.2074 | 15.3143 | 4.0290 | 0.1991 | 4.2280 | | 16,919.3291 | 16,919.3291 | 1.2539 | 0.9790 | 17,242.4148 |

Mitigated Operational

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Energy | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| Mobile | 15.0579 | 12.1998 | 85.3835 | 0.1534 | 15.1069 | 0.1269 | 15.2338 | 4.0290 | 0.1185 | 4.1475 | | 15,648.6525 | 15,648.6525 | 1.2295 | 0.9557 | 15,964.1843 |
| Total | 15.5366 | 13.2589 | 86.2964 | 0.1597 | 15.1069 | 0.2074 | 15.3143 | 4.0290 | 0.1991 | 4.2280 | | 16,919.3291 | 16,919.3291 | 1.2539 | 0.9790 | 17,242.4148 |

| | ROG | NOx | CO | SO2 | 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 | Grading | Grading | 4/3/2023 | 4/10/2023 | 5 | 6 | |
| 2 | Building Construction | Building Construction | 4/11/2023 | 2/12/2024 | 5 | 220 | |
| 3 | Paving | Paving | 1/30/2024 | 2/12/2024 | 5 | 10 | |
| 4 | Architectural Coating | Architectural Coating | 1/30/2024 | 2/12/2024 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.93

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Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,687; Non-Residential Outdoor: 7,229; Striped Parking Area: 5,160 (Architectural

OffRoad Equipment

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading | 4 | 10.00 | 0.00 | 950.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 42.00 | 16.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

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3.2 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 7.2258 | 0.0000 | 7.2258 | 3.4464 | 0.0000 | 3.4464 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.2258 | 0.6044 | 7.8302 | 3.4464 | 0.5560 | 4.0024 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | 0.3815 | 17.4140 | 5.3041 | 0.0889 | 2.7727 | 0.1832 | 2.9559 | 0.7603 | 0.1752 | 0.9355 | | 9,692.7210 | 9,692.7210 | 0.4136 | 1.5364 | 10,160.8920 |
| 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 | 0.0391 | 0.0236 | 0.3761 | 1.0000e-003 | 0.1118 | 5.5000e-004 | 0.1123 | 0.0296 | 5.1000e-004 | 0.0302 | | 100.9011 | 100.9011 | 2.4400e-003 | 2.4000e-003 | 101.6781 |
| Total | 0.4206 | 17.4376 | 5.6802 | 0.0899 | 2.8845 | 0.1837 | 3.0682 | 0.7899 | 0.1757 | 0.9657 | | 9,793.6221 | 9,793.6221 | 0.4160 | 1.5388 | 10,262.5700 |

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Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.8181 | 0.0000 | 2.8181 | 1.3441 | 0.0000 | 1.3441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 2.8181 | 0.6044 | 3.4224 | 1.3441 | 0.5560 | 1.9001 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | 0.3815 | 17.4140 | 5.3041 | 0.0889 | 2.7727 | 0.1832 | 2.9559 | 0.7603 | 0.1752 | 0.9355 | | 9,692.7210 | 9,692.7210 | 0.4136 | 1.5364 | 10,160.8920 |
| 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 | 0.0391 | 0.0236 | 0.3761 | 1.0000e-003 | 0.1118 | 5.5000e-004 | 0.1123 | 0.0296 | 5.1000e-004 | 0.0302 | | 100.9011 | 100.9011 | 2.4400e-003 | 2.4000e-003 | 101.6781 |
| Total | 0.4206 | 17.4376 | 5.6802 | 0.0889 | 2.8845 | 0.1837 | 3.0682 | 0.7899 | 0.1757 | 0.9657 | | 9,793.6221 | 9,793.6221 | 0.4160 | 1.5388 | 10,262.5700 |

3.3 Building Construction - 2023

Unmitigated Construction On-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |
| Total | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |

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 | 0.0187 | 0.5612 | 0.2355 | 2.8600e-003 | 0.1025 | 4.2200e-003 | 0.1067 | 0.0295 | 4.0300e-003 | 0.0336 | | 307.0691 | 307.0691 | 8.0300e-003 | 0.0454 | 320.7827 |
| Worker | 0.1641 | 0.0990 | 1.5796 | 4.1900e-003 | 0.4695 | 2.3100e-003 | 0.4718 | 0.1245 | 2.1300e-003 | 0.1266 | | 423.7847 | 423.7847 | 0.0103 | 0.0101 | 427.0479 |
| Total | 0.1829 | 0.6602 | 1.8151 | 7.0500e-003 | 0.5720 | 6.5300e-003 | 0.5785 | 0.1540 | 6.1600e-003 | 0.1602 | | 730.8538 | 730.8538 | 0.0183 | 0.0554 | 747.8306 |

Mitigated Construction On-Site

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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 | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | 0.0000 | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |
| Total | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | 0.0000 | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |

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 | 0.0187 | 0.5612 | 0.2355 | 2.8600e-003 | 0.1025 | 4.2200e-003 | 0.1067 | 0.0295 | 4.0300e-003 | 0.0336 | | 307.0691 | 307.0691 | 8.0300e-003 | 0.0454 | 320.7827 |
| Worker | 0.1641 | 0.0990 | 1.5796 | 4.1900e-003 | 0.4695 | 2.3100e-003 | 0.4718 | 0.1245 | 2.1300e-003 | 0.1266 | | 423.7847 | 423.7847 | 0.0103 | 0.0101 | 427.0479 |
| Total | 0.1829 | 0.6602 | 1.8151 | 7.0500e-003 | 0.5720 | 6.5300e-003 | 0.5785 | 0.1540 | 6.1600e-003 | 0.1602 | | 730.8538 | 730.8538 | 0.0183 | 0.0554 | 747.8306 |

3.3 Building Construction - 2024

Unmitigated Construction On-Site

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

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| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Off-Road | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |

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 | 0.0183 | 0.5662 | 0.2316 | 2.8200e-003 | 0.1025 | 4.1500e-003 | 0.1067 | 0.0295 | 3.9700e-003 | 0.0335 | | 302.8390 | 302.8390 | 7.7800e-003 | 0.0447 | 316.3587 |
| Worker | 0.1524 | 0.0879 | 1.4685 | 4.0700e-003 | 0.4695 | 2.2200e-003 | 0.4717 | 0.1245 | 2.0400e-003 | 0.1265 | | 411.4182 | 411.4182 | 9.2700e-003 | 9.3500e-003 | 414.4374 |
| Total | 0.1707 | 0.6541 | 1.7001 | 6.8900e-003 | 0.5720 | 6.3700e-003 | 0.5783 | 0.1540 | 6.0100e-003 | 0.1600 | | 714.2572 | 714.2572 | 0.0171 | 0.0541 | 730.7961 |

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 | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 0.0000 | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 0.0000 | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0183 | 0.5662 | 0.2316 | 2.8200e-003 | 0.1025 | 4.1500e-003 | 0.1067 | 0.0295 | 3.9700e-003 | 0.0335 | | 302.8390 | 302.8390 | 7.7800e-003 | 0.0447 | 316.3587 |
| Worker | 0.1524 | 0.0879 | 1.4685 | 4.0700e-003 | 0.4695 | 2.2200e-003 | 0.4717 | 0.1245 | 2.0400e-003 | 0.1265 | | 411.4182 | 411.4182 | 9.2700e-003 | 9.3500e-003 | 414.4374 |
| Total | 0.1707 | 0.6541 | 1.7001 | 6.8900e-003 | 0.5720 | 6.3700e-003 | 0.5783 | 0.1540 | 6.0100e-003 | 0.1600 | | 714.2572 | 714.2572 | 0.0171 | 0.0541 | 730.7961 |

3.4 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8425 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |
| Paving | 0.5057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.3481 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0544 | 0.0314 | 0.5245 | 1.4500e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 146.9351 | 146.9351 | 3.3100e-003 | 3.3400e-003 | 148.0134 |
| Total | 0.0544 | 0.0314 | 0.5245 | 1.4500e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 146.9351 | 146.9351 | 3.3100e-003 | 3.3400e-003 | 148.0134 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8425 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | 0.0000 | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |
| Paving | 0.5057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.3481 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | 0.0000 | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0544 | 0.0314 | 0.5245 | 1.4500e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 146.9351 | 146.9351 | 3.3100e-003 | 3.3400e-003 | 148.0134 |
| Total | 0.0544 | 0.0314 | 0.5245 | 1.4500e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 146.9351 | 146.9351 | 3.3100e-003 | 3.3400e-003 | 148.0134 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.7942 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 15.9750 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| 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 | 0.0290 | 0.0167 | 0.2797 | 7.8000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 78.3654 | 78.3654 | 1.7700e-003 | 1.7800e-003 | 78.9405 |
| Total | 0.0290 | 0.0167 | 0.2797 | 7.8000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 78.3654 | 78.3654 | 1.7700e-003 | 1.7800e-003 | 78.9405 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.7942 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 15.9750 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| 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 | 0.0290 | 0.0167 | 0.2797 | 7.8000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 78.3654 | 78.3654 | 1.7700e-003 | 1.7800e-003 | 78.9405 |
| Total | 0.0290 | 0.0167 | 0.2797 | 7.8000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 78.3654 | 78.3654 | 1.7700e-003 | 1.7800e-003 | 78.9405 |

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 | 15.0579 | 12.1998 | 85.3835 | 0.1534 | 15.1069 | 0.1269 | 15.2338 | 4.0290 | 0.1185 | 4.1475 | | 15,648.652 | 15,648.652 | 1.2295 | 0.9557 | 15,964.184 |
| Unmitigated | 15.0579 | 12.1998 | 85.3835 | 0.1534 | 15.1069 | 0.1269 | 15.2338 | 4.0290 | 0.1185 | 4.1475 | | 15,648.652 | 15,648.652 | 1.2295 | 0.9557 | 15,964.184 |

4.2 Trip Summary Information

| | | | |
|--|-------------------------|-------------|-----------|
| | Average Daily Trip Rate | Unmitigated | Mitigated |
|--|-------------------------|-------------|-----------|

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
|--------------------------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Fast Food Restaurant with Drive Thru | 5,196.78 | 6,798.66 | 5214.71 | 5,712,550 | 5,712,550 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 5,196.78 | 6,798.66 | 5,214.71 | 5,712,550 | 5,712,550 |

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 |
| Fast Food Restaurant with Drive Thru | 16.60 | 8.40 | 6.90 | 2.20 | 78.80 | 19.00 | 29 | 21 | 50 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Fast Food Restaurant with Drive Thru | 0.543085 | 0.056300 | 0.173085 | 0.134258 | 0.025645 | 0.007009 | 0.011926 | 0.017481 | 0.000552 | 0.000248 | 0.024848 | 0.000956 | 0.004606 |
| Parking Lot | 0.543085 | 0.056300 | 0.173085 | 0.134258 | 0.025645 | 0.007009 | 0.011926 | 0.017481 | 0.000552 | 0.000248 | 0.024848 | 0.000956 | 0.004606 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| NaturalGas Unmitigated | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | | | | | |
| Fast Food Restaurant with Drive-Thru Parking Lot | 10800.3 | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

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 | | | | | |
| Fast Food Restaurant with Drive-Thru Parking Lot | 10.8003 | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Mitigated | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | | 0.0535 |
| Unmitigated | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | | 0.0535 |

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 | 0.0433 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | | | | | | | | | | |
|-------------------|---------------|--------------------|---------------|---------------|--|--------------------|--------------------|--|--------------------|--------------------|--|---------------|---------------|--------------------|---------------|
| Consumer Products | 0.3167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | 0.0000 |
| Landscaping | 2.1500e-003 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | 0.0535 |
| Total | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | 0.0535 |

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 | 0.0433 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.3167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.1500e-003 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Total | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

4200 N. University Parkway Project - San Bernardino-South Coast County, Summer

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

**4200 N. University Parkway Project
San Bernardino-South Coast County, Winter**

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|--------------------------------------|--------|----------|-------------|--------------------|------------|
| Parking Lot | 215.00 | Space | 1.93 | 86,000.00 | 0 |
| Fast Food Restaurant with Drive Thru | 14.46 | 1000sqft | 0.33 | 14,458.00 | 0 |

1.2 Other Project Characteristics

| | | | | | |
|---------------------------------|----------------------------|---------------------------------|-------|----------------------------------|-------|
| Urbanization | Urban | Wind Speed (m/s) | 2.2 | Precipitation Freq (Days) | 32 |
| Climate Zone | 10 | | | Operational Year | 2025 |
| Utility Company | Southern California Edison | | | | |
| CO2 Intensity (lb/MW hr) | 531.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

Project Characteristics - Based on 2019 Reported Factors

Land Use - Retail land use includes fast food restaurant with drive-through, coffee/donut shop with drive-through and automated car wash (with tunne)

Construction Phase - Based on preliminary construction schedule of April 2023 through February 2024

Grading - Conservative assumption of 7,600 cubic yards of import, based on current topography and pavement section.

Vehicle Trips - Based on total gross proposed project trip generation forecast of 5,196. Total net trips results in 3,896 (-1,300 pass-by trips).

Construction Off-road Equipment Mitigation - Fugitive Dust (Rule 403) Minimum requirements

Area Mitigation -

Water Mitigation -

Trips and VMT -

| Table Name | Column Name | Default Value | New Value |
|-------------------|----------------------------|---------------|-----------|
| tblAreaMitigation | UseLowVOCPaintParkingCheck | False | True |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | |
|---------------------------|------------------------------|-----------|-----------|
| tblConstDustMitigation | WaterUnpavedRoadVehicleSpeed | 0 | 15 |
| tblGrading | MaterialImported | 0.00 | 7,600.00 |
| tblLandUse | LandUseSquareFeet | 14,460.00 | 14,458.00 |
| tblProjectCharacteristics | CO2IntensityFactor | 390.98 | 531.98 |
| tblVehicleTrips | ST_TR | 616.12 | 470.17 |
| tblVehicleTrips | SU_TR | 472.58 | 360.63 |
| tblVehicleTrips | WD_TR | 470.95 | 359.39 |

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Year | lb/day | | | | | | | | | | lb/day | | | | | |
| 2023 | 1.8892 | 32.8497 | 15.7573 | 0.1106 | 10.1103 | 0.7884 | 10.8987 | 4.2364 | 0.7320 | 4.9684 | 0.0000 | 11,794.3759 | 11,794.3759 | 1.0600 | 1.5411 | 12,280.1358 |
| 2024 | 19.1650 | 22.8862 | 29.7286 | 0.0544 | 0.8291 | 1.0023 | 1.8314 | 0.2222 | 0.9485 | 1.1707 | 0.0000 | 5,161.8660 | 5,161.8660 | 1.0064 | 0.0598 | 5,204.8440 |
| Maximum | 19.1650 | 32.8497 | 29.7286 | 0.1106 | 10.1103 | 1.0023 | 10.8987 | 4.2364 | 0.9485 | 4.9684 | 0.0000 | 11,794.3759 | 11,794.3759 | 1.0600 | 1.5411 | 12,280.1358 |

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 |
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|
|--|-----|-----|----|-----|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|-----|-----|------|

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Year | lb/day | | | | | | | | | | lb/day | | | | | |
|----------------|----------------|----------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| 2023 | 1.8892 | 32.8497 | 15.7573 | 0.1106 | 5.7026 | 0.7884 | 6.4909 | 2.1341 | 0.7320 | 2.8661 | 0.0000 | 11,794.3759 | 11,794.3759 | 1.0600 | 1.5411 | 12,280.1358 |
| 2024 | 19.1650 | 22.8862 | 29.7286 | 0.0544 | 0.8291 | 1.0023 | 1.8314 | 0.2222 | 0.9485 | 1.1707 | 0.0000 | 5,161.8660 | 5,161.8660 | 1.0064 | 0.0598 | 5,204.8440 |
| Maximum | 19.1650 | 32.8497 | 29.7286 | 0.1106 | 5.7026 | 1.0023 | 6.4909 | 2.1341 | 0.9485 | 2.8661 | 0.0000 | 11,794.3759 | 11,794.3759 | 1.0600 | 1.5411 | 12,280.1358 |

| | ROG | NOx | CO | SO2 | 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 | 40.29 | 0.00 | 34.62 | 47.15 | 0.00 | 34.24 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

2.2 Overall Operational
Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Energy | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| Mobile | 12.3874 | 12.9789 | 82.0019 | 0.1430 | 15.1069 | 0.1271 | 15.2340 | 4.0290 | 0.1187 | 4.1477 | | 14,600.3736 | 14,600.3736 | 1.3204 | 0.9835 | 14,926.4595 |
| Total | 12.8660 | 14.0380 | 82.9148 | 0.1494 | 15.1069 | 0.2077 | 15.3146 | 4.0290 | 0.1993 | 4.2282 | | 15,871.0502 | 15,871.0502 | 1.3449 | 1.0068 | 16,204.6901 |

Mitigated Operational

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|----------------|----------------|----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|----------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Energy | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| Mobile | 12.3874 | 12.9789 | 82.0019 | 0.1430 | 15.1069 | 0.1271 | 15.2340 | 4.0290 | 0.1187 | 4.1477 | | 14,600.3736 | 14,600.3736 | 1.3204 | 0.9835 | 14,926.4595 |
| Total | 12.8660 | 14.0380 | 82.9148 | 0.1494 | 15.1069 | 0.2077 | 15.3146 | 4.0290 | 0.1993 | 4.2282 | | 15,871.0502 | 15,871.0502 | 1.3449 | 1.0068 | 16,204.6901 |

| | ROG | NOx | CO | SO2 | 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 | Grading | Grading | 4/3/2023 | 4/10/2023 | 5 | 6 | |
| 2 | Building Construction | Building Construction | 4/11/2023 | 2/12/2024 | 5 | 220 | |
| 3 | Paving | Paving | 1/30/2024 | 2/12/2024 | 5 | 10 | |
| 4 | Architectural Coating | Architectural Coating | 1/30/2024 | 2/12/2024 | 5 | 10 | |

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 6

Acres of Paving: 1.93

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 21,687; Non-Residential Outdoor: 7,229; Striped Parking Area: 5,160 (Architectural

OffRoad Equipment

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

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Grading | 4 | 10.00 | 0.00 | 950.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 8 | 42.00 | 16.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Paving | 6 | 15.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Architectural Coating | 1 | 8.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

3.2 Grading - 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 | | | | | |
| Fugitive Dust | | | | | 7.2258 | 0.0000 | 7.2258 | 3.4464 | 0.0000 | 3.4464 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 7.2258 | 0.6044 | 7.8302 | 3.4464 | 0.5560 | 4.0024 | | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | 0.3527 | 18.3573 | 5.3999 | 0.0891 | 2.7727 | 0.1835 | 2.9562 | 0.7603 | 0.1755 | 0.9358 | | 9,707.3468 | 9,707.3468 | 0.4121 | 1.5387 | 10,176.1711 |
| 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 | 0.0376 | 0.0248 | 0.3096 | 9.0000e-004 | 0.1118 | 5.5000e-004 | 0.1123 | 0.0296 | 5.1000e-004 | 0.0302 | | 91.4144 | 91.4144 | 2.4400e-003 | 2.4800e-003 | 92.2144 |
| Total | 0.3904 | 18.3821 | 5.7095 | 0.0900 | 2.8845 | 0.1840 | 3.0685 | 0.7899 | 0.1760 | 0.9660 | | 9,798.7612 | 9,798.7612 | 0.4146 | 1.5411 | 10,268.3855 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 2.8181 | 0.0000 | 2.8181 | 1.3441 | 0.0000 | 1.3441 | | | 0.0000 | | | 0.0000 |
| Off-Road | 1.3330 | 14.4676 | 8.7038 | 0.0206 | | 0.6044 | 0.6044 | | 0.5560 | 0.5560 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |
| Total | 1.3330 | 14.4676 | 8.7038 | 0.0206 | 2.8181 | 0.6044 | 3.4224 | 1.3441 | 0.5560 | 1.9001 | 0.0000 | 1,995.6147 | 1,995.6147 | 0.6454 | | 2,011.7503 |

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 | 0.3527 | 18.3573 | 5.3999 | 0.0891 | 2.7727 | 0.1835 | 2.9562 | 0.7603 | 0.1755 | 0.9358 | | 9,707.3468 | 9,707.3468 | 0.4121 | 1.5387 | 10,176.1711 |
| 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 | 0.0376 | 0.0248 | 0.3096 | 9.0000e-004 | 0.1118 | 5.5000e-004 | 0.1123 | 0.0296 | 5.1000e-004 | 0.0302 | | 91.4144 | 91.4144 | 2.4400e-003 | 2.4800e-003 | 92.2144 |
| Total | 0.3904 | 18.3821 | 5.7095 | 0.0900 | 2.8845 | 0.1840 | 3.0685 | 0.7899 | 0.1760 | 0.9660 | | 9,798.7612 | 9,798.7612 | 0.4146 | 1.5411 | 10,268.3855 |

3.3 Building Construction - 2023

Unmitigated Construction On-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |
| Total | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |

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 | 0.0174 | 0.5928 | 0.2428 | 2.8700e-003 | 0.1025 | 4.2300e-003 | 0.1067 | 0.0295 | 4.0500e-003 | 0.0336 | | 307.8138 | 307.8138 | 7.9600e-003 | 0.0455 | 321.5678 |
| Worker | 0.1581 | 0.1041 | 1.3001 | 3.8000e-003 | 0.4695 | 2.3100e-003 | 0.4718 | 0.1245 | 2.1300e-003 | 0.1266 | | 383.9404 | 383.9404 | 0.0103 | 0.0104 | 387.3005 |
| Total | 0.1755 | 0.6969 | 1.5429 | 6.6700e-003 | 0.5720 | 6.5400e-003 | 0.5785 | 0.1540 | 6.1800e-003 | 0.1602 | | 691.7542 | 691.7542 | 0.0182 | 0.0559 | 708.8683 |

Mitigated Construction On-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | 0.0000 | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |
| Total | 1.7136 | 13.6239 | 14.2145 | 0.0250 | | 0.6136 | 0.6136 | | 0.5880 | 0.5880 | 0.0000 | 2,289.5233 | 2,289.5233 | 0.4330 | | 2,300.3479 |

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 | 0.0174 | 0.5928 | 0.2428 | 2.8700e-003 | 0.1025 | 4.2300e-003 | 0.1067 | 0.0295 | 4.0500e-003 | 0.0336 | | 307.8138 | 307.8138 | 7.9600e-003 | 0.0455 | 321.5678 |
| Worker | 0.1581 | 0.1041 | 1.3001 | 3.8000e-003 | 0.4695 | 2.3100e-003 | 0.4718 | 0.1245 | 2.1300e-003 | 0.1266 | | 383.9404 | 383.9404 | 0.0103 | 0.0104 | 387.3005 |
| Total | 0.1755 | 0.6969 | 1.5429 | 6.6700e-003 | 0.5720 | 6.5400e-003 | 0.5785 | 0.1540 | 6.1800e-003 | 0.1602 | | 691.7542 | 691.7542 | 0.0182 | 0.0559 | 708.8683 |

3.3 Building Construction - 2024

Unmitigated Construction On-Site

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

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|--|-------------------|-------------------|---------------|--|-------------------|
| Off-Road | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |

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 | 0.0170 | 0.5980 | 0.2388 | 2.8300e-003 | 0.1025 | 4.1700e-003 | 0.1067 | 0.0295 | 3.9900e-003 | 0.0335 | | 303.5792 | 303.5792 | 7.7200e-003 | 0.0449 | 317.1383 |
| Worker | 0.1472 | 0.0924 | 1.2100 | 3.6900e-003 | 0.4695 | 2.2200e-003 | 0.4717 | 0.1245 | 2.0400e-003 | 0.1265 | | 372.8193 | 372.8193 | 9.3000e-003 | 9.6500e-003 | 375.9279 |
| Total | 0.1642 | 0.6903 | 1.4488 | 6.5200e-003 | 0.5720 | 6.3900e-003 | 0.5784 | 0.1540 | 6.0300e-003 | 0.1600 | | 676.3985 | 676.3985 | 0.0170 | 0.0545 | 693.0662 |

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 | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 0.0000 | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |
| Total | 1.5971 | 12.8235 | 14.1002 | 0.0250 | | 0.5381 | 0.5381 | | 0.5153 | 0.5153 | 0.0000 | 2,289.6541 | 2,289.6541 | 0.4265 | | 2,300.3154 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0170 | 0.5980 | 0.2388 | 2.8300e-003 | 0.1025 | 4.1700e-003 | 0.1067 | 0.0295 | 3.9900e-003 | 0.0335 | | 303.5792 | 303.5792 | 7.7200e-003 | 0.0449 | 317.1383 |
| Worker | 0.1472 | 0.0924 | 1.2100 | 3.6900e-003 | 0.4695 | 2.2200e-003 | 0.4717 | 0.1245 | 2.0400e-003 | 0.1265 | | 372.8193 | 372.8193 | 9.3000e-003 | 9.6500e-003 | 375.9279 |
| Total | 0.1642 | 0.6903 | 1.4488 | 6.5200e-003 | 0.5720 | 6.3900e-003 | 0.5784 | 0.1540 | 6.0300e-003 | 0.1600 | | 676.3985 | 676.3985 | 0.0170 | 0.0545 | 693.0662 |

3.4 Paving - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8425 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |
| Paving | 0.5057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.3481 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0526 | 0.0330 | 0.4321 | 1.3200e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 133.1498 | 133.1498 | 3.3200e-003 | 3.4500e-003 | 134.2600 |
| Total | 0.0526 | 0.0330 | 0.4321 | 1.3200e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 133.1498 | 133.1498 | 3.3200e-003 | 3.4500e-003 | 134.2600 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 0.8425 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | 0.0000 | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |
| Paving | 0.5057 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.3481 | 8.1030 | 11.7069 | 0.0179 | | 0.3957 | 0.3957 | | 0.3652 | 0.3652 | 0.0000 | 1,710.2024 | 1,710.2024 | 0.5420 | | 1,723.7529 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | 0.0526 | 0.0330 | 0.4321 | 1.3200e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 133.1498 | 133.1498 | 3.3200e-003 | 3.4500e-003 | 134.2600 |
| Total | 0.0526 | 0.0330 | 0.4321 | 1.3200e-003 | 0.1677 | 7.9000e-004 | 0.1685 | 0.0445 | 7.3000e-004 | 0.0452 | | 133.1498 | 133.1498 | 3.3200e-003 | 3.4500e-003 | 134.2600 |

3.5 Architectural Coating - 2024

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.7942 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 15.9750 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Unmitigated Construction Off-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| 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 | 0.0280 | 0.0176 | 0.2305 | 7.0000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 71.0132 | 71.0132 | 1.7700e-003 | 1.8400e-003 | 71.6053 |
| Total | 0.0280 | 0.0176 | 0.2305 | 7.0000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 71.0132 | 71.0132 | 1.7700e-003 | 1.8400e-003 | 71.6053 |

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------|----------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-----------------|-----------------|---------------|-----|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Archit. Coating | 15.7942 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1808 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |
| Total | 15.9750 | 1.2188 | 1.8101 | 2.9700e-003 | | 0.0609 | 0.0609 | | 0.0609 | 0.0609 | 0.0000 | 281.4481 | 281.4481 | 0.0159 | | 281.8443 |

Mitigated Construction Off-Site

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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 |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|----------------|----------------|--------------------|--------------------|----------------|
| 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 | 0.0280 | 0.0176 | 0.2305 | 7.0000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 71.0132 | 71.0132 | 1.7700e-003 | 1.8400e-003 | 71.6053 |
| Total | 0.0280 | 0.0176 | 0.2305 | 7.0000e-004 | 0.0894 | 4.2000e-004 | 0.0898 | 0.0237 | 3.9000e-004 | 0.0241 | | 71.0132 | 71.0132 | 1.7700e-003 | 1.8400e-003 | 71.6053 |

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 | 12.3874 | 12.9789 | 82.0019 | 0.1430 | 15.1069 | 0.1271 | 15.2340 | 4.0290 | 0.1187 | 4.1477 | | 14,600.373 | 14,600.373 | 1.3204 | 0.9835 | 14,926.459 |
| Unmitigated | 12.3874 | 12.9789 | 82.0019 | 0.1430 | 15.1069 | 0.1271 | 15.2340 | 4.0290 | 0.1187 | 4.1477 | | 14,600.373 | 14,600.373 | 1.3204 | 0.9835 | 14,926.459 |

4.2 Trip Summary Information

| | | | |
|--|-------------------------|-------------|-----------|
| | Average Daily Trip Rate | Unmitigated | Mitigated |
|--|-------------------------|-------------|-----------|

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| Land Use | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
|--------------------------------------|-----------------|-----------------|-----------------|------------------|------------------|
| Fast Food Restaurant with Drive Thru | 5,196.78 | 6,798.66 | 5214.71 | 5,712,550 | 5,712,550 |
| Parking Lot | 0.00 | 0.00 | 0.00 | | |
| Total | 5,196.78 | 6,798.66 | 5,214.71 | 5,712,550 | 5,712,550 |

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 |
| Fast Food Restaurant with Drive Thru | 16.60 | 8.40 | 6.90 | 2.20 | 78.80 | 19.00 | 29 | 21 | 50 |
| Parking Lot | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|--------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Fast Food Restaurant with Drive Thru | 0.543085 | 0.056300 | 0.173085 | 0.134258 | 0.025645 | 0.007009 | 0.011926 | 0.017481 | 0.000552 | 0.000248 | 0.024848 | 0.000956 | 0.004606 |
| Parking Lot | 0.543085 | 0.056300 | 0.173085 | 0.134258 | 0.025645 | 0.007009 | 0.011926 | 0.017481 | 0.000552 | 0.000248 | 0.024848 | 0.000956 | 0.004606 |

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

| Category | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| NaturalGas Mitigated | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| NaturalGas Unmitigated | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

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 | | | | | |
| Fast Food Restaurant with Drive-Thru Parking Lot | 10800.3 | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

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 | | | | | |
| Fast Food Restaurant with Drive-Thru Parking Lot | 10.8003 | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |
| | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Total | | 0.1165 | 1.0589 | 0.8894 | 6.3500e-003 | | 0.0805 | 0.0805 | | 0.0805 | 0.0805 | | 1,270.6264 | 1,270.6264 | 0.0244 | 0.0233 | 1,278.1771 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

6.0 Area Detail

6.1 Mitigation Measures Area

- Use Low VOC Paint - Residential Interior
- Use Low VOC Paint - Residential Exterior
- Use Low VOC Paint - Non-Residential Interior
- Use Low VOC Paint - Non-Residential Exterior
- Use Low VOC Cleaning Supplies

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e | |
|-------------|--------|-------------|--------|--------|---------------|--------------|-------------|----------------|---------------|-------------|----------|-----------|-----------|-------------|-----|------|--------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | | |
| Mitigated | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | | 0.0535 |
| Unmitigated | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | | 0.0535 |

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 | 0.0433 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not Applied

| | | | | | | | | | | | | | | | | |
|-------------------|---------------|--------------------|---------------|---------------|--|--------------------|--------------------|--|--------------------|--------------------|--|---------------|---------------|--------------------|--|---------------|
| Consumer Products | 0.3167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.1500e-003 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Total | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |

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 | 0.0433 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 0.3167 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Landscaping | 2.1500e-003 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |
| Total | 0.3622 | 2.1000e-004 | 0.0234 | 0.0000 | | 8.0000e-005 | 8.0000e-005 | | 8.0000e-005 | 8.0000e-005 | | 0.0502 | 0.0502 | 1.3000e-004 | | 0.0535 |

7.0 Water Detail

7.1 Mitigation Measures Water

- Install Low Flow Bathroom Faucet
- Install Low Flow Kitchen Faucet
- Install Low Flow Toilet
- Install Low Flow Shower
- Use Water Efficient Irrigation System

4200 N. University Parkway Project - San Bernardino-South Coast County, Winter

EMFAC Off-Model Adjustment Factors for Gasoline Light Duty Vehicle to Account for the SAFE Vehicle Rule Not 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
