

TTM 20403 and 20404 - 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

TTM 20403 and 20404
San Bernardino-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

| Land Uses | Size | Metric | Lot Acreage | Floor Surface Area | Population |
|----------------------------|--------|---------------|-------------|--------------------|------------|
| Single Family Housing | 126.00 | Dwelling Unit | 49.73 | 226,800.00 | 360 |
| Other Asphalt Surfaces | 15.11 | Acre | 15.11 | 658,191.60 | 0 |
| Other Non-Asphalt Surfaces | 1.83 | Acre | 1.83 | 79,714.80 | 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/MWhr) | 531.98 | CH4 Intensity (lb/MWhr) | 0.033 | N2O Intensity (lb/MWhr) | 0.004 |

1.3 User Entered Comments & Non-Default Data

- Project Characteristics -
- Land Use - Per Site Plan
- Construction Phase -
- Vehicle Trips - Per TIA
- Construction Off-road Equipment Mitigation -

| Table Name | Column Name | Default Value | New Value |
|-----------------|-------------|---------------|-----------|
| tblLandUse | LotAcreage | 40.91 | 49.73 |
| tblVehicleTrips | DV_TP | 11.00 | 0.00 |
| tblVehicleTrips | PB_TP | 3.00 | 0.00 |

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| | | | |
|-----------------|-------|-------|--------|
| tblVehicleTrips | PR_TP | 86.00 | 100.00 |
| tblVehicleTrips | ST_TR | 9.54 | 9.43 |
| tblVehicleTrips | SU_TR | 8.55 | 9.43 |
| tblVehicleTrips | WD_TR | 9.44 | 9.43 |

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 | 3.3999 | 34.5628 | 31.5676 | 0.0864 | 19.8582 | 1.4256 | 21.1252 | 10.1558 | 1.3115 | 11.3215 | 0.0000 | 8,708.9035 | 8,708.9035 | 1.9491 | 0.4651 | 8,866.5328 |
| 2024 | 2.9130 | 18.9284 | 30.5186 | 0.0850 | 4.8266 | 0.6668 | 5.4934 | 1.2996 | 0.6274 | 1.9270 | 0.0000 | 8,569.4388 | 8,569.4388 | 0.7479 | 0.4536 | 8,723.2943 |
| 2025 | 2.7161 | 17.8459 | 29.4916 | 0.0834 | 4.8266 | 0.5801 | 5.4066 | 1.2996 | 0.5459 | 1.8454 | 0.0000 | 8,401.6518 | 8,401.6518 | 0.7347 | 0.4406 | 8,551.3173 |
| 2026 | 2.6355 | 17.7456 | 28.7062 | 0.0819 | 4.8265 | 0.5789 | 5.4055 | 1.2996 | 0.5448 | 1.8443 | 0.0000 | 8,246.1149 | 8,246.1149 | 0.7260 | 0.4286 | 8,391.9836 |
| 2027 | 2.5619 | 17.6551 | 28.0351 | 0.0805 | 4.8265 | 0.5777 | 5.4042 | 1.2995 | 0.5436 | 1.8432 | 0.0000 | 8,099.1797 | 8,099.1797 | 0.7182 | 0.4171 | 8,241.4158 |
| 2028 | 22.0256 | 17.5817 | 27.4759 | 0.0792 | 4.8265 | 0.5764 | 5.4030 | 1.2995 | 0.5425 | 1.8420 | 0.0000 | 7,965.2274 | 7,965.2274 | 0.7160 | 0.4064 | 8,104.1253 |
| Maximum | 22.0256 | 34.5628 | 31.5676 | 0.0864 | 19.8582 | 1.4256 | 21.1252 | 10.1558 | 1.3115 | 11.3215 | 0.0000 | 8,708.9035 | 8,708.9035 | 1.9491 | 0.4651 | 8,866.5328 |

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2.2 Overall Operational

Unmitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|-----------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|-------------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 38.5255 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |
| Energy | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |
| Mobile | 3.9543 | 5.2197 | 40.3178 | 0.0928 | 9.6564 | 0.0691 | 9.7255 | 2.5753 | 0.0647 | 2.6400 | | 9,461.2744 | 9,461.2744 | 0.4711 | 0.4226 | 9,598.9913 |
| Total | 42.5852 | 8.8536 | 115.1653 | 0.2625 | 9.6564 | 9.8244 | 19.4809 | 2.5753 | 9.8200 | 12.3954 | 1,180.2317 | 12,896.7965 | 14,077.0282 | 4.0307 | 0.5238 | 14,333.8837 |

Mitigated Operational

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|----------------|---------------|-----------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|-------------------|--------------------|--------------------|---------------|---------------|--------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Area | 38.5255 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |
| Energy | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |
| Mobile | 3.9543 | 5.2197 | 40.3178 | 0.0928 | 9.6564 | 0.0691 | 9.7255 | 2.5753 | 0.0647 | 2.6400 | | 9,461.2744 | 9,461.2744 | 0.4711 | 0.4226 | 9,598.9913 |
| Total | 42.5852 | 8.8536 | 115.1653 | 0.2625 | 9.6564 | 9.8244 | 19.4809 | 2.5753 | 9.8200 | 12.3954 | 1,180.2317 | 12,896.7965 | 14,077.0282 | 4.0307 | 0.5238 | 14,333.8837 |

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

3.0 Construction Detail

Construction Phase

| Phase Number | Phase Name | Phase Type | Start Date | End Date | Num Days Week | Num Days | Phase Description |
|--------------|-----------------------|-----------------------|------------|-----------|---------------|----------|-------------------|
| 1 | Site Preparation | Site Preparation | 4/11/2023 | 6/5/2023 | 5 | 40 | |
| 2 | Grading | Grading | 6/6/2023 | 11/6/2023 | 5 | 110 | |
| 3 | Building Construction | Building Construction | 11/7/2023 | 2/7/2028 | 5 | 1110 | |
| 4 | Paving | Paving | 2/8/2028 | 5/22/2028 | 5 | 75 | |
| 5 | Architectural Coating | Architectural Coating | 5/23/2028 | 9/4/2028 | 5 | 75 | |

Acres of Grading (Site Preparation Phase): 60

Acres of Grading (Grading Phase): 330

Acres of Paving: 16.94

Residential Indoor: 459,270; Residential Outdoor: 153,090; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 44,274 (Architectural Coating – sqft)

OffRoad Equipment

| Phase Name | Offroad Equipment Type | Amount | Usage Hours | Horse Power | Load Factor |
|-----------------------|------------------------|--------|-------------|-------------|-------------|
| Architectural Coating | Air Compressors | 1 | 6.00 | 78 | 0.48 |
| Building Construction | Cranes | 1 | 7.00 | 231 | 0.29 |
| Grading | Excavators | 2 | 8.00 | 158 | 0.38 |
| Building Construction | Forklifts | 3 | 8.00 | 89 | 0.20 |
| Building Construction | Generator Sets | 1 | 8.00 | 84 | 0.74 |
| Grading | Graders | 1 | 8.00 | 187 | 0.41 |

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| | | | | | |
|-----------------------|---------------------------|---|------|-----|------|
| Paving | Pavers | 2 | 8.00 | 130 | 0.42 |
| Paving | Paving Equipment | 2 | 8.00 | 132 | 0.36 |
| Paving | Rollers | 2 | 8.00 | 80 | 0.38 |
| Grading | Rubber Tired Dozers | 1 | 8.00 | 247 | 0.40 |
| Site Preparation | Rubber Tired Dozers | 3 | 8.00 | 247 | 0.40 |
| Grading | Scrapers | 2 | 8.00 | 367 | 0.48 |
| Building Construction | Tractors/Loaders/Backhoes | 3 | 7.00 | 97 | 0.37 |
| Grading | Tractors/Loaders/Backhoes | 2 | 8.00 | 97 | 0.37 |
| Site Preparation | Tractors/Loaders/Backhoes | 4 | 8.00 | 97 | 0.37 |
| Building Construction | Welders | 1 | 8.00 | 46 | 0.45 |

Trips and VMT

| Phase Name | Offroad Equipment Count | Worker Trip Number | Vendor Trip Number | Hauling Trip Number | Worker Trip Length | Vendor Trip Length | Hauling Trip Length | Worker Vehicle Class | Vendor Vehicle Class | Hauling Vehicle Class |
|-----------------------|-------------------------|--------------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------------------|----------------------|-----------------------|
| Site Preparation | 7 | 18.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Grading | 8 | 20.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |
| Building Construction | 9 | 355.00 | 134.00 | 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 | 71.00 | 0.00 | 0.00 | 14.70 | 6.90 | 20.00 | LD_Mix | HDT_Mix | HHDT |

3.1 Mitigation Measures Construction

Water Exposed Area

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3.2 Site Preparation - 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 | | | | | 19.6570 | 0.0000 | 19.6570 | 10.1025 | 0.0000 | 10.1025 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 19.6570 | 1.2660 | 20.9230 | 10.1025 | 1.1647 | 11.2672 | | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

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 | 0.0703 | 0.0424 | 0.6770 | 1.8000e-003 | 0.2012 | 9.9000e-004 | 0.2022 | 0.0534 | 9.1000e-004 | 0.0543 | | 181.6220 | 181.6220 | 4.3900e-003 | 4.3200e-003 | 183.0205 |
| Total | 0.0703 | 0.0424 | 0.6770 | 1.8000e-003 | 0.2012 | 9.9000e-004 | 0.2022 | 0.0534 | 9.1000e-004 | 0.0543 | | 181.6220 | 181.6220 | 4.3900e-003 | 4.3200e-003 | 183.0205 |

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3.2 Site Preparation - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 8.8457 | 0.0000 | 8.8457 | 4.5461 | 0.0000 | 4.5461 | | | 0.0000 | | | 0.0000 |
| Off-Road | 2.6595 | 27.5242 | 18.2443 | 0.0381 | | 1.2660 | 1.2660 | | 1.1647 | 1.1647 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |
| Total | 2.6595 | 27.5242 | 18.2443 | 0.0381 | 8.8457 | 1.2660 | 10.1117 | 4.5461 | 1.1647 | 5.7108 | 0.0000 | 3,687.308 1 | 3,687.308 1 | 1.1926 | | 3,717.121 9 |

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 | 0.0703 | 0.0424 | 0.6770 | 1.8000e-003 | 0.2012 | 9.9000e-004 | 0.2022 | 0.0534 | 9.1000e-004 | 0.0543 | | 181.6220 | 181.6220 | 4.3900e-003 | 4.3200e-003 | 183.0205 |
| Total | 0.0703 | 0.0424 | 0.6770 | 1.8000e-003 | 0.2012 | 9.9000e-004 | 0.2022 | 0.0534 | 9.1000e-004 | 0.0543 | | 181.6220 | 181.6220 | 4.3900e-003 | 4.3200e-003 | 183.0205 |

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3.3 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 | | | | | 9.2036 | 0.0000 | 9.2036 | 3.6538 | 0.0000 | 3.6538 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 9.2036 | 1.4245 | 10.6281 | 3.6538 | 1.3105 | 4.9643 | | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

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 | 0.0782 | 0.0472 | 0.7522 | 2.0000e-003 | 0.2236 | 1.1000e-003 | 0.2247 | 0.0593 | 1.0100e-003 | 0.0603 | | 201.8023 | 201.8023 | 4.8800e-003 | 4.8000e-003 | 203.3561 |
| Total | 0.0782 | 0.0472 | 0.7522 | 2.0000e-003 | 0.2236 | 1.1000e-003 | 0.2247 | 0.0593 | 1.0100e-003 | 0.0603 | | 201.8023 | 201.8023 | 4.8800e-003 | 4.8000e-003 | 203.3561 |

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3.3 Grading - 2023

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|---------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|-----|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Fugitive Dust | | | | | 4.1416 | 0.0000 | 4.1416 | 1.6442 | 0.0000 | 1.6442 | | | 0.0000 | | | 0.0000 |
| Off-Road | 3.3217 | 34.5156 | 28.0512 | 0.0621 | | 1.4245 | 1.4245 | | 1.3105 | 1.3105 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |
| Total | 3.3217 | 34.5156 | 28.0512 | 0.0621 | 4.1416 | 1.4245 | 5.5661 | 1.6442 | 1.3105 | 2.9547 | 0.0000 | 6,011.4777 | 6,011.4777 | 1.9442 | | 6,060.0836 |

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 | 0.0782 | 0.0472 | 0.7522 | 2.0000e-003 | 0.2236 | 1.1000e-003 | 0.2247 | 0.0593 | 1.0100e-003 | 0.0603 | | 201.8023 | 201.8023 | 4.8800e-003 | 4.8000e-003 | 203.3561 |
| Total | 0.0782 | 0.0472 | 0.7522 | 2.0000e-003 | 0.2236 | 1.1000e-003 | 0.2247 | 0.0593 | 1.0100e-003 | 0.0603 | | 201.8023 | 201.8023 | 4.8800e-003 | 4.8000e-003 | 203.3561 |

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3.4 Building Construction - 2023

Unmitigated Construction On-Site

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

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.1569 | 4.7001 | 1.9722 | 0.0240 | 0.8585 | 0.0353 | 0.8938 | 0.2472 | 0.0338 | 0.2810 | | 2,571.7036 | 2,571.7036 | 0.0672 | 0.3798 | 2,686.5555 |
| Worker | 1.3873 | 0.8370 | 13.3514 | 0.0354 | 3.9681 | 0.0195 | 3.9876 | 1.0524 | 0.0180 | 1.0703 | | 3,581.9900 | 3,581.9900 | 0.0866 | 0.0853 | 3,609.5713 |
| Total | 1.5441 | 5.5372 | 15.3236 | 0.0594 | 4.8266 | 0.0549 | 4.8814 | 1.2996 | 0.0518 | 1.3513 | | 6,153.6936 | 6,153.6936 | 0.1538 | 0.4651 | 6,296.1267 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2023

Mitigated Construction On-Site

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

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Vendor | 0.1569 | 4.7001 | 1.9722 | 0.0240 | 0.8585 | 0.0353 | 0.8938 | 0.2472 | 0.0338 | 0.2810 | | 2,571.7036 | 2,571.7036 | 0.0672 | 0.3798 | 2,686.5555 |
| Worker | 1.3873 | 0.8370 | 13.3514 | 0.0354 | 3.9681 | 0.0195 | 3.9876 | 1.0524 | 0.0180 | 1.0703 | | 3,581.9900 | 3,581.9900 | 0.0866 | 0.0853 | 3,609.5713 |
| Total | 1.5441 | 5.5372 | 15.3236 | 0.0594 | 4.8266 | 0.0549 | 4.8814 | 1.2996 | 0.0518 | 1.3513 | | 6,153.6936 | 6,153.6936 | 0.1538 | 0.4651 | 6,296.1267 |

TTM 20403 and 20404 - 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

3.4 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 | | | | | |
| Off-Road | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

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 | 0.1532 | 4.7419 | 1.9395 | 0.0237 | 0.8585 | 0.0348 | 0.8933 | 0.2472 | 0.0333 | 0.2805 | | 2,536.2766 | 2,536.2766 | 0.0652 | 0.3745 | 2,649.5038 |
| Worker | 1.2882 | 0.7427 | 12.4123 | 0.0344 | 3.9681 | 0.0187 | 3.9868 | 1.0524 | 0.0173 | 1.0696 | | 3,477.4633 | 3,477.4633 | 0.0784 | 0.0791 | 3,502.9828 |
| Total | 1.4414 | 5.4847 | 14.3518 | 0.0581 | 4.8266 | 0.0535 | 4.8801 | 1.2996 | 0.0505 | 1.3501 | | 6,013.7399 | 6,013.7399 | 0.1435 | 0.4536 | 6,152.4867 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2024

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 | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |
| Total | 1.4716 | 13.4438 | 16.1668 | 0.0270 | | 0.6133 | 0.6133 | | 0.5769 | 0.5769 | 0.0000 | 2,555.6989 | 2,555.6989 | 0.6044 | | 2,570.8077 |

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 | 0.1532 | 4.7419 | 1.9395 | 0.0237 | 0.8585 | 0.0348 | 0.8933 | 0.2472 | 0.0333 | 0.2805 | | 2,536.2766 | 2,536.2766 | 0.0652 | 0.3745 | 2,649.5038 |
| Worker | 1.2882 | 0.7427 | 12.4123 | 0.0344 | 3.9681 | 0.0187 | 3.9868 | 1.0524 | 0.0173 | 1.0696 | | 3,477.4633 | 3,477.4633 | 0.0784 | 0.0791 | 3,502.9828 |
| Total | 1.4414 | 5.4847 | 14.3518 | 0.0581 | 4.8266 | 0.0535 | 4.8801 | 1.2996 | 0.0505 | 1.3501 | | 6,013.7399 | 6,013.7399 | 0.1435 | 0.4536 | 6,152.4867 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2025

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1503 | 4.7136 | 1.9090 | 0.0232 | 0.8585 | 0.0347 | 0.8932 | 0.2472 | 0.0332 | 0.2804 | | 2,486.967 7 | 2,486.967 7 | 0.0633 | 0.3670 | 2,597.917 5 |
| Worker | 1.1984 | 0.6626 | 11.4979 | 0.0332 | 3.9681 | 0.0178 | 3.9859 | 1.0524 | 0.0164 | 1.0687 | | 3,358.209 7 | 3,358.209 7 | 0.0705 | 0.0736 | 3,381.901 8 |
| Total | 1.3487 | 5.3762 | 13.4069 | 0.0564 | 4.8266 | 0.0525 | 4.8791 | 1.2996 | 0.0496 | 1.3491 | | 5,845.177 4 | 5,845.177 4 | 0.1338 | 0.4406 | 5,979.819 3 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2025

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1503 | 4.7136 | 1.9090 | 0.0232 | 0.8585 | 0.0347 | 0.8932 | 0.2472 | 0.0332 | 0.2804 | | 2,486.967 7 | 2,486.967 7 | 0.0633 | 0.3670 | 2,597.917 5 |
| Worker | 1.1984 | 0.6626 | 11.4979 | 0.0332 | 3.9681 | 0.0178 | 3.9859 | 1.0524 | 0.0164 | 1.0687 | | 3,358.209 7 | 3,358.209 7 | 0.0705 | 0.0736 | 3,381.901 8 |
| Total | 1.3487 | 5.3762 | 13.4069 | 0.0564 | 4.8266 | 0.0525 | 4.8791 | 1.2996 | 0.0496 | 1.3491 | | 5,845.177 4 | 5,845.177 4 | 0.1338 | 0.4406 | 5,979.819 3 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2026

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1477 | 4.6788 | 1.8837 | 0.0227 | 0.8585 | 0.0345 | 0.8930 | 0.2472 | 0.0330 | 0.2802 | | 2,437.545 3 | 2,437.545 3 | 0.0614 | 0.3595 | 2,546.207 7 |
| Worker | 1.1204 | 0.5971 | 10.7379 | 0.0322 | 3.9681 | 0.0169 | 3.9849 | 1.0524 | 0.0155 | 1.0679 | | 3,252.095 3 | 3,252.095 3 | 0.0637 | 0.0691 | 3,274.277 8 |
| Total | 1.2681 | 5.2759 | 12.6216 | 0.0549 | 4.8265 | 0.0514 | 4.8779 | 1.2996 | 0.0485 | 1.3481 | | 5,689.640 6 | 5,689.640 6 | 0.1251 | 0.4286 | 5,820.485 5 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2026

Mitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1477 | 4.6788 | 1.8837 | 0.0227 | 0.8585 | 0.0345 | 0.8930 | 0.2472 | 0.0330 | 0.2802 | | 2,437.545 3 | 2,437.545 3 | 0.0614 | 0.3595 | 2,546.207 7 |
| Worker | 1.1204 | 0.5971 | 10.7379 | 0.0322 | 3.9681 | 0.0169 | 3.9849 | 1.0524 | 0.0155 | 1.0679 | | 3,252.095 3 | 3,252.095 3 | 0.0637 | 0.0691 | 3,274.277 8 |
| Total | 1.2681 | 5.2759 | 12.6216 | 0.0549 | 4.8265 | 0.0514 | 4.8779 | 1.2996 | 0.0485 | 1.3481 | | 5,689.640 6 | 5,689.640 6 | 0.1251 | 0.4286 | 5,820.485 5 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2027

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1454 | 4.6435 | 1.8619 | 0.0223 | 0.8585 | 0.0343 | 0.8928 | 0.2472 | 0.0328 | 0.2800 | | 2,385.994 4 | 2,385.994 4 | 0.0593 | 0.3517 | 2,492.294 8 |
| Worker | 1.0490 | 0.5419 | 10.0885 | 0.0312 | 3.9681 | 0.0158 | 3.9839 | 1.0524 | 0.0146 | 1.0669 | | 3,156.711 0 | 3,156.711 0 | 0.0579 | 0.0653 | 3,177.622 9 |
| Total | 1.1945 | 5.1854 | 11.9505 | 0.0535 | 4.8265 | 0.0501 | 4.8767 | 1.2995 | 0.0474 | 1.3469 | | 5,542.705 4 | 5,542.705 4 | 0.1172 | 0.4171 | 5,669.917 8 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2027

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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1454 | 4.6435 | 1.8619 | 0.0223 | 0.8585 | 0.0343 | 0.8928 | 0.2472 | 0.0328 | 0.2800 | | 2,385.994 4 | 2,385.994 4 | 0.0593 | 0.3517 | 2,492.294 8 |
| Worker | 1.0490 | 0.5419 | 10.0885 | 0.0312 | 3.9681 | 0.0158 | 3.9839 | 1.0524 | 0.0146 | 1.0669 | | 3,156.711 0 | 3,156.711 0 | 0.0579 | 0.0653 | 3,177.622 9 |
| Total | 1.1945 | 5.1854 | 11.9505 | 0.0535 | 4.8265 | 0.0501 | 4.8767 | 1.2995 | 0.0474 | 1.3469 | | 5,542.705 4 | 5,542.705 4 | 0.1172 | 0.4171 | 5,669.917 8 |

TTM 20403 and 20404 - 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

3.4 Building Construction - 2028

Unmitigated Construction On-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|----------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|------------------------|------------------------|---------------|-----|------------------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Off-Road | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1436 | 4.6165 | 1.8448 | 0.0218 | 0.8585 | 0.0341 | 0.8926 | 0.2472 | 0.0326 | 0.2798 | | 2,336.761 9 | 2,336.761 9 | 0.0577 | 0.3442 | 2,440.787 1 |
| Worker | 0.9834 | 0.4955 | 9.5465 | 0.0304 | 3.9681 | 0.0148 | 3.9828 | 1.0524 | 0.0136 | 1.0659 | | 3,071.991 1 | 3,071.991 1 | 0.0529 | 0.0622 | 3,091.840 1 |
| Total | 1.1270 | 5.1120 | 11.3913 | 0.0522 | 4.8265 | 0.0489 | 4.8754 | 1.2995 | 0.0462 | 1.3458 | | 5,408.753 0 | 5,408.753 0 | 0.1106 | 0.4064 | 5,532.627 2 |

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

3.4 Building Construction - 2028

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 | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |
| Total | 1.3674 | 12.4697 | 16.0847 | 0.0270 | | 0.5276 | 0.5276 | | 0.4963 | 0.4963 | 0.0000 | 2,556.474 4 | 2,556.474 4 | 0.6010 | | 2,571.498 1 |

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 | 0.1436 | 4.6165 | 1.8448 | 0.0218 | 0.8585 | 0.0341 | 0.8926 | 0.2472 | 0.0326 | 0.2798 | | 2,336.761 9 | 2,336.761 9 | 0.0577 | 0.3442 | 2,440.787 1 |
| Worker | 0.9834 | 0.4955 | 9.5465 | 0.0304 | 3.9681 | 0.0148 | 3.9828 | 1.0524 | 0.0136 | 1.0659 | | 3,071.991 1 | 3,071.991 1 | 0.0529 | 0.0622 | 3,091.840 1 |
| Total | 1.1270 | 5.1120 | 11.3913 | 0.0522 | 4.8265 | 0.0489 | 4.8754 | 1.2995 | 0.0462 | 1.3458 | | 5,408.753 0 | 5,408.753 0 | 0.1106 | 0.4064 | 5,532.627 2 |

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

3.5 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.5278 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.4430 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

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 | 0.0416 | 0.0209 | 0.4034 | 1.2800e-003 | 0.1677 | 6.2000e-004 | 0.1683 | 0.0445 | 5.7000e-004 | 0.0450 | | 129.8024 | 129.8024 | 2.2400e-003 | 2.6300e-003 | 130.6411 |
| Total | 0.0416 | 0.0209 | 0.4034 | 1.2800e-003 | 0.1677 | 6.2000e-004 | 0.1683 | 0.0445 | 5.7000e-004 | 0.0450 | | 129.8024 | 129.8024 | 2.2400e-003 | 2.6300e-003 | 130.6411 |

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

3.5 Paving - 2028

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 | 0.9152 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |
| Paving | 0.5278 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Total | 1.4430 | 8.5816 | 14.5780 | 0.0228 | | 0.4185 | 0.4185 | | 0.3850 | 0.3850 | 0.0000 | 2,206.745 2 | 2,206.745 2 | 0.7137 | | 2,224.587 8 |

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 | 0.0416 | 0.0209 | 0.4034 | 1.2800e-003 | 0.1677 | 6.2000e-004 | 0.1683 | 0.0445 | 5.7000e-004 | 0.0450 | | 129.8024 | 129.8024 | 2.2400e-003 | 2.6300e-003 | 130.6411 |
| Total | 0.0416 | 0.0209 | 0.4034 | 1.2800e-003 | 0.1677 | 6.2000e-004 | 0.1683 | 0.0445 | 5.7000e-004 | 0.0450 | | 129.8024 | 129.8024 | 2.2400e-003 | 2.6300e-003 | 130.6411 |

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

3.6 Architectural Coating - 2028

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 | 21.6581 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 21.8289 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Unmitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.1967 | 0.0991 | 1.9093 | 6.0800e-003 | 0.7936 | 2.9500e-003 | 0.7966 | 0.2105 | 2.7200e-003 | 0.2132 | | 614.3982 | 614.3982 | 0.0106 | 0.0124 | 618.3680 |
| Total | 0.1967 | 0.0991 | 1.9093 | 6.0800e-003 | 0.7936 | 2.9500e-003 | 0.7966 | 0.2105 | 2.7200e-003 | 0.2132 | | 614.3982 | 614.3982 | 0.0106 | 0.0124 | 618.3680 |

TTM 20403 and 20404 - 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

3.6 Architectural Coating - 2028

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 | 21.6581 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Off-Road | 0.1709 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |
| Total | 21.8289 | 1.1455 | 1.8091 | 2.9700e-003 | | 0.0515 | 0.0515 | | 0.0515 | 0.0515 | 0.0000 | 281.4481 | 281.4481 | 0.0154 | | 281.8319 |

Mitigated Construction Off-Site

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|--------------|---------------|---------------|---------------|--------------------|---------------|--------------------|---------------|----------------|--------------------|---------------|----------|-----------------|-----------------|---------------|---------------|-----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Hauling | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 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 | 0.1967 | 0.0991 | 1.9093 | 6.0800e-003 | 0.7936 | 2.9500e-003 | 0.7966 | 0.2105 | 2.7200e-003 | 0.2132 | | 614.3982 | 614.3982 | 0.0106 | 0.0124 | 618.3680 |
| Total | 0.1967 | 0.0991 | 1.9093 | 6.0800e-003 | 0.7936 | 2.9500e-003 | 0.7966 | 0.2105 | 2.7200e-003 | 0.2132 | | 614.3982 | 614.3982 | 0.0106 | 0.0124 | 618.3680 |

TTM 20403 and 20404 - 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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-------------|--------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|----------------|----------------|--------|--------|----------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| Mitigated | 3.9543 | 5.2197 | 40.3178 | 0.0928 | 9.6564 | 0.0691 | 9.7255 | 2.5753 | 0.0647 | 2.6400 | | 9,461,274 4 | 9,461,274 4 | 0.4711 | 0.4226 | 9,598,991 3 |
| Unmitigated | 3.9543 | 5.2197 | 40.3178 | 0.0928 | 9.6564 | 0.0691 | 9.7255 | 2.5753 | 0.0647 | 2.6400 | | 9,461,274 4 | 9,461,274 4 | 0.4711 | 0.4226 | 9,598,991 3 |

4.2 Trip Summary Information

| Land Use | Average Daily Trip Rate | | | Unmitigated | Mitigated |
|----------------------------|-------------------------|-----------------|-----------------|------------------|------------------|
| | Weekday | Saturday | Sunday | Annual VMT | Annual VMT |
| Other Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Other Non-Asphalt Surfaces | 0.00 | 0.00 | 0.00 | | |
| Single Family Housing | 1,188.18 | 1,188.18 | 1188.18 | 4,573,402 | 4,573,402 |
| Total | 1,188.18 | 1,188.18 | 1,188.18 | 4,573,402 | 4,573,402 |

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 |
| Other Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Other Non-Asphalt Surfaces | 16.60 | 8.40 | 6.90 | 0.00 | 0.00 | 0.00 | 0 | 0 | 0 |
| Single Family Housing | 14.70 | 5.90 | 8.70 | 40.20 | 19.20 | 40.60 | 100 | 0 | 0 |

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

4.4 Fleet Mix

| Land Use | LDA | LDT1 | LDT2 | MDV | LHD1 | LHD2 | MHD | HHD | OBUS | UBUS | MCY | SBUS | MH |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Other Asphalt Surfaces | 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 |
| Other Non-Asphalt Surfaces | 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 |
| Single Family Housing | 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

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|------------------------|--------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|--------|------------|
| Category | lb/day | | | | | | | | | | lb/day | | | | | |
| NaturalGas Mitigated | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |
| NaturalGas Unmitigated | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |

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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 - Natural Gas

Unmitigated

| | Natural Gas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|-----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 9764.81 | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |
| Total | | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |

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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

Mitigated

| | NaturalGas Use | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|----------------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|----------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use | kBTU/yr | lb/day | | | | | | | | | | lb/day | | | | | |
| Other Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Other Non-Asphalt Surfaces | 0 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Single Family Housing | 9.76481 | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |
| Total | | 0.1053 | 0.8999 | 0.3829 | 5.7400e-003 | | 0.0728 | 0.0728 | | 0.0728 | 0.0728 | | 1,148.8008 | 1,148.8008 | 0.0220 | 0.0211 | 1,155.6275 |

6.0 Area Detail

6.1 Mitigation Measures Area

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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 | | | | | |
| Mitigated | 38.5255 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |
| Unmitigated | 38.5255 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |

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 | 0.4450 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.7520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 33.0165 | 2.6143 | 64.0775 | 0.1635 | | 9.6249 | 9.6249 | | 9.6249 | 9.6249 | 1,180.2317 | 2,268.0000 | 3,448.2317 | 3.5197 | 0.0801 | 3,560.0952 |
| Landscaping | 0.3120 | 0.1196 | 10.3870 | 5.5000e-004 | | 0.0576 | 0.0576 | | 0.0576 | 0.0576 | | 18.7213 | 18.7213 | 0.0179 | | 19.1697 |
| Total | 38.5256 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |

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

6.2 Area by SubCategory

Mitigated

| | ROG | NOx | CO | SO2 | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4 | N2O | CO2e |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-------------------|-------------------|-------------------|---------------|---------------|-------------------|
| SubCategory | lb/day | | | | | | | | | | lb/day | | | | | |
| Architectural Coating | 0.4450 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Consumer Products | 4.7520 | | | | | 0.0000 | 0.0000 | | 0.0000 | 0.0000 | | | 0.0000 | | | 0.0000 |
| Hearth | 33.0165 | 2.6143 | 64.0775 | 0.1635 | | 9.6249 | 9.6249 | | 9.6249 | 9.6249 | 1,180.2317 | 2,268.0000 | 3,448.2317 | 3.5197 | 0.0801 | 3,560.0952 |
| Landscaping | 0.3120 | 0.1196 | 10.3870 | 5.5000e-004 | | 0.0576 | 0.0576 | | 0.0576 | 0.0576 | | 18.7213 | 18.7213 | 0.0179 | | 19.1697 |
| Total | 38.5256 | 2.7339 | 74.4646 | 0.1640 | | 9.6826 | 9.6826 | | 9.6826 | 9.6826 | 1,180.2317 | 2,286.7213 | 3,466.9530 | 3.5376 | 0.0801 | 3,579.2649 |

7.0 Water Detail

7.1 Mitigation Measures Water

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