
Appendix A:

Air Quality Supporting Information

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Fournier Road Improvement Project Custom Report

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1. Basic Project Information

1.1. Basic Project Information

| Data Field | Value |
|-----------------------------|---|
| Project Name | Fournier Road Improvement Project |
| Construction Start Date | 11/2/2026 |
| Lead Agency | — |
| Land Use Scale | Project/site |
| Analysis Level for Defaults | County |
| Windspeed (m/s) | 2.80 |
| Precipitation (days) | 18.2 |
| Location | 37.491062383238585, -119.97705830900384 |
| County | Mariposa |
| City | Unincorporated |
| Air District | Mariposa County APCD |
| Air Basin | Mountain Counties |
| TAZ | 3020 |
| EDFZ | 5 |
| Electric Utility | Pacific Gas & Electric Company |
| Gas Utility | Pacific Gas & Electric |
| App Version | 2022.1.1.29 |

1.2. Land Use Types

| Land Use Subtype | Size | Unit | Lot Acreage | Building Area (sq ft) | Landscape Area (sq ft) | Special Landscape Area (sq ft) | Population | Description |
|------------------------------|------|------|-------------|-----------------------|------------------------|--------------------------------|------------|-------------|
| Road Widening | 0.23 | Mile | 1.01 | 0.00 | 0.00 | — | — | — |
| Bridge/Overpass Construction | 0.01 | Mile | 0.04 | 0.00 | 0.00 | — | — | — |

2. Emissions Summary

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Year | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|----------------------|------|------|------|------|---------|-------|-------|-------|--------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Daily - Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily - Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 6.41 | 5.41 | 47.1 | 46.2 | 0.08 | 2.46 | 8.61 | 11.1 | 2.27 | 1.02 | 3.28 | — | 9,212 | 9,212 | 0.38 | 0.32 | 0.10 | 9,260 |
| 2027 | 2.72 | 2.29 | 18.0 | 25.5 | 0.04 | 0.67 | 6.15 | 6.82 | 0.62 | 0.65 | 1.26 | — | 4,242 | 4,242 | 0.18 | 0.05 | 0.03 | 4,260 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.41 | 0.35 | 2.94 | 2.81 | 0.01 | 0.14 | 0.59 | 0.73 | 0.13 | 0.07 | 0.20 | — | 567 | 567 | 0.02 | 0.02 | 0.09 | 572 |
| 2027 | 0.14 | 0.12 | 0.94 | 1.30 | < 0.005 | 0.03 | 0.31 | 0.34 | 0.03 | 0.03 | 0.06 | — | 221 | 221 | 0.01 | < 0.005 | 0.02 | 222 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2026 | 0.08 | 0.06 | 0.54 | 0.51 | < 0.005 | 0.03 | 0.11 | 0.13 | 0.02 | 0.01 | 0.04 | — | 93.8 | 93.8 | < 0.005 | < 0.005 | 0.02 | 94.7 |
| 2027 | 0.03 | 0.02 | 0.17 | 0.24 | < 0.005 | 0.01 | 0.06 | 0.06 | 0.01 | 0.01 | 0.01 | — | 36.6 | 36.6 | < 0.005 | < 0.005 | < 0.005 | 36.8 |

3. Construction Emissions Details

3.1. Linear, Grubbing & Land Clearing (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 3.19 | 2.68 | 22.3 | 11.8 | 0.01 | 1.38 | — | 1.38 | 1.27 | — | 1.27 | — | 1,263 | 1,263 | 0.05 | 0.01 | — | 1,268 |
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Demolition | — | — | — | — | — | — | 0.81 | 0.81 | — | 0.12 | 0.12 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | < 0.005 | 12.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.14 | 0.12 | 0.98 | 0.52 | < 0.005 | 0.06 | — | 0.06 | 0.06 | — | 0.06 | — | 55.4 | 55.4 | < 0.005 | < 0.005 | — | 55.6 |
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Demolition | — | — | — | — | — | — | 0.04 | 0.04 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | < 0.005 | 0.53 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.18 | 0.09 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 9.17 | 9.17 | < 0.005 | < 0.005 | — | 9.20 |
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Demoliti | — | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.08 | 0.08 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.12 | 0.11 | 0.10 | 1.05 | 0.00 | 0.00 | 0.12 | 0.12 | 0.00 | 0.03 | 0.03 | — | 126 | 126 | 0.01 | 0.01 | 0.01 | 128 |
| Vendor | 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 | 0.00 |
| Hauling | 0.06 | 0.06 | 3.66 | 0.26 | 0.01 | 0.02 | 0.30 | 0.32 | 0.02 | 0.08 | 0.11 | — | 1,382 | 1,382 | < 0.005 | 0.22 | 0.05 | 1,448 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | < 0.005 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 5.63 | 5.63 | < 0.005 | < 0.005 | 0.01 | 5.72 |
| Vendor | 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 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.16 | 0.01 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 60.6 | 60.6 | < 0.005 | 0.01 | 0.04 | 63.5 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.93 | 0.93 | < 0.005 | < 0.005 | < 0.005 | 0.95 |
| Vendor | 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 | 0.00 |
| Hauling | < 0.005 | < 0.005 | 0.03 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 10.0 | 10.0 | < 0.005 | < 0.005 | 0.01 | 10.5 |

3.3. Linear, Grading & Excavation (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|---------|---------|---------|------|------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 2.84 | 2.38 | 20.2 | 23.6 | 0.04 | 1.05 | — | 1.05 | 0.97 | — | 0.97 | — | 4,583 | 4,583 | 0.19 | 0.04 | — | 4,599 |
| Dust From Material Movement | — | — | — | — | — | — | 1.24 | 1.24 | — | 0.13 | 0.13 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | < 0.005 | 12.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.12 | 0.10 | 0.88 | 1.03 | < 0.005 | 0.05 | — | 0.05 | 0.04 | — | 0.04 | — | 201 | 201 | 0.01 | < 0.005 | — | 202 |
| Dust From Material Movement | — | — | — | — | — | — | 0.05 | 0.05 | — | 0.01 | 0.01 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | < 0.005 | 0.53 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.02 | 0.16 | 0.19 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 33.3 | 33.3 | < 0.005 | < 0.005 | — | 33.4 |
| Dust From Material Movement | — | — | — | — | — | — | 0.01 | 0.01 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.08 | 0.08 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.20 | 0.18 | 0.17 | 1.74 | 0.00 | 0.00 | 0.20 | 0.20 | 0.00 | 0.05 | 0.05 | — | 210 | 210 | 0.02 | 0.01 | 0.02 | 213 |
| Vendor | < 0.005 | < 0.005 | 0.15 | 0.03 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | 0.01 | — | 66.3 | 66.3 | < 0.005 | 0.01 | < 0.005 | 69.2 |
| Hauling | 0.01 | 0.01 | 0.42 | 0.03 | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | 0.01 | 0.01 | — | 158 | 158 | < 0.005 | 0.03 | 0.01 | 165 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.08 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 9.38 | 9.38 | < 0.005 | < 0.005 | 0.02 | 9.53 |
| Vendor | < 0.005 | < 0.005 | 0.01 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 2.91 | 2.91 | < 0.005 | < 0.005 | < 0.005 | 3.04 |
| Hauling | < 0.005 | < 0.005 | 0.02 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 6.93 | 6.93 | < 0.005 | < 0.005 | < 0.005 | 7.26 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.55 | 1.55 | < 0.005 | < 0.005 | < 0.005 | 1.58 |
| Vendor | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 0.48 | 0.48 | < 0.005 | < 0.005 | < 0.005 | 0.50 |
| Hauling | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | — | 1.15 | 1.15 | < 0.005 | < 0.005 | < 0.005 | 1.20 |

3.5. Linear, Drainage, Utilities, & Sub-Grade (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|-----|-----|-----|----|-----|-------|-------|-------|--------|--------|--------|------|-------|------|-----|-----|---|------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|-----------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|-------|-------|---------|---------|---------|-------|
| Off-Road Equipment | 2.13 | 1.79 | 15.7 | 18.8 | 0.04 | 0.61 | — | 0.61 | 0.56 | — | 0.56 | — | 3,940 | 3,940 | 0.16 | 0.03 | — | 3,954 |
| Dust From Material Movement | — | — | — | — | — | — | 0.62 | 0.62 | — | 0.07 | 0.07 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | < 0.005 | 12.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.09 | 0.08 | 0.69 | 0.83 | < 0.005 | 0.03 | — | 0.03 | 0.02 | — | 0.02 | — | 173 | 173 | 0.01 | < 0.005 | — | 173 |
| Dust From Material Movement | — | — | — | — | — | — | 0.03 | 0.03 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 0.51 | 0.51 | < 0.005 | < 0.005 | < 0.005 | 0.53 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.02 | 0.01 | 0.13 | 0.15 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 28.6 | 28.6 | < 0.005 | < 0.005 | — | 28.7 |
| Dust From Material Movement | — | — | — | — | — | — | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | — | — | — | — | — | — |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.08 | 0.08 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.22 | 0.20 | 0.19 | 1.92 | 0.00 | 0.00 | 0.22 | 0.22 | 0.00 | 0.05 | 0.05 | — | 231 | 231 | 0.02 | 0.01 | 0.03 | 235 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | 0.01 | 0.08 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 10.3 | 10.3 | < 0.005 | < 0.005 | 0.02 | 10.5 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.71 | 1.71 | < 0.005 | < 0.005 | < 0.005 | 1.74 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

3.7. Linear, Paving (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.36 | 1.14 | 9.77 | 14.4 | 0.02 | 0.43 | — | 0.43 | 0.39 | — | 0.39 | — | 2,196 | 2,196 | 0.09 | 0.02 | — | 2,204 |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | < 0.005 | 11.9 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.06 | 0.05 | 0.43 | 0.63 | < 0.005 | 0.02 | — | 0.02 | 0.02 | — | 0.02 | — | 96.3 | 96.3 | < 0.005 | < 0.005 | — | 96.6 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.12 | 0.12 | < 0.005 | 0.01 | 0.01 | — | 0.50 | 0.50 | < 0.005 | < 0.005 | < 0.005 | 0.52 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.08 | 0.12 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 15.9 | 15.9 | < 0.005 | < 0.005 | — | 16.0 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.02 | < 0.005 | < 0.005 | < 0.005 | — | 0.08 | 0.08 | < 0.005 | < 0.005 | < 0.005 | 0.09 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.15 | 0.13 | 0.12 | 1.30 | 0.00 | 0.00 | 0.16 | 0.16 | 0.00 | 0.04 | 0.04 | — | 165 | 165 | 0.01 | 0.01 | 0.02 | 168 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.06 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 7.38 | 7.38 | < 0.005 | < 0.005 | 0.01 | 7.50 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.22 | 1.22 | < 0.005 | < 0.005 | < 0.005 | 1.24 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

3.9. Bridge Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|---------|------|-------|-------|---------|---------|---------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.17 | 0.97 | 8.18 | 9.01 | 0.02 | 0.27 | — | 0.27 | 0.25 | — | 0.25 | — | 1,754 | 1,754 | 0.07 | 0.01 | — | 1,760 |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.5 | 11.5 | < 0.005 | < 0.005 | < 0.005 | 12.0 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.03 | 0.02 | 0.18 | 0.19 | < 0.005 | 0.01 | — | 0.01 | 0.01 | — | 0.01 | — | 37.8 | 37.8 | < 0.005 | < 0.005 | — | 37.9 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.06 | 0.06 | < 0.005 | 0.01 | 0.01 | — | 0.25 | 0.25 | < 0.005 | < 0.005 | < 0.005 | 0.26 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | < 0.005 | < 0.005 | 0.03 | 0.04 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 6.25 | 6.25 | < 0.005 | < 0.005 | — | 6.27 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.01 | < 0.005 | < 0.005 | < 0.005 | — | 0.04 | 0.04 | < 0.005 | < 0.005 | < 0.005 | 0.04 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|------|------|---------|---------|------|---------|---------|---|------|------|---------|---------|---------|------|
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.10 | 0.09 | 0.08 | 0.87 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 105 | 105 | 0.01 | < 0.005 | 0.01 | 107 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.02 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 2.30 | 2.30 | < 0.005 | < 0.005 | < 0.005 | 2.34 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 0.38 | 0.38 | < 0.005 | < 0.005 | < 0.005 | 0.39 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

3.11. Bridge Construction (2027) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

| Location | TOG | ROG | NOx | CO | SO2 | PM10E | PM10D | PM10T | PM2.5E | PM2.5D | PM2.5T | BCO2 | NBCO2 | CO2T | CH4 | N2O | R | CO2e |
|---------------------|---------|---------|------|------|---------|---------|-------|-------|---------|--------|--------|------|-------|-------|---------|---------|---------|-------|
| Onsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 1.12 | 0.93 | 7.89 | 8.96 | 0.02 | 0.24 | — | 0.24 | 0.22 | — | 0.22 | — | 1,754 | 1,754 | 0.07 | 0.01 | — | 1,760 |
| Onsite truck | < 0.005 | < 0.005 | 0.05 | 0.01 | < 0.005 | < 0.005 | 2.94 | 2.94 | < 0.005 | 0.29 | 0.29 | — | 11.3 | 11.3 | < 0.005 | < 0.005 | < 0.005 | 11.9 |

| | | | | | | | | | | | | | | | | | | |
|---------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---|------|------|---------|---------|---------|------|
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.07 | 0.06 | 0.49 | 0.56 | < 0.005 | 0.02 | — | 0.02 | 0.01 | — | 0.01 | — | 110 | 110 | < 0.005 | < 0.005 | — | 110 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.18 | 0.18 | < 0.005 | 0.02 | 0.02 | — | 0.71 | 0.71 | < 0.005 | < 0.005 | < 0.005 | 0.75 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Off-Road Equipment | 0.01 | 0.01 | 0.09 | 0.10 | < 0.005 | < 0.005 | — | < 0.005 | < 0.005 | — | < 0.005 | — | 18.2 | 18.2 | < 0.005 | < 0.005 | — | 18.3 |
| Onsite truck | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | < 0.005 | 0.03 | 0.03 | < 0.005 | < 0.005 | < 0.005 | — | 0.12 | 0.12 | < 0.005 | < 0.005 | < 0.005 | 0.12 |
| Offsite | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Summer (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Daily, Winter (Max) | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.09 | 0.08 | 0.08 | 0.81 | 0.00 | 0.00 | 0.10 | 0.10 | 0.00 | 0.02 | 0.02 | — | 103 | 103 | 0.01 | < 0.005 | 0.01 | 105 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Average Daily | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | 0.01 | 0.01 | < 0.005 | 0.05 | 0.00 | 0.00 | 0.01 | 0.01 | 0.00 | < 0.005 | < 0.005 | — | 6.59 | 6.59 | < 0.005 | < 0.005 | 0.01 | 6.70 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |
| Annual | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Worker | < 0.005 | < 0.005 | < 0.005 | 0.01 | 0.00 | 0.00 | < 0.005 | < 0.005 | 0.00 | < 0.005 | < 0.005 | — | 1.09 | 1.09 | < 0.005 | < 0.005 | < 0.005 | 1.11 |
| Vendor | 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 | 0.00 |
| Hauling | 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 | 0.00 |

5. Activity Data

5.1. Construction Schedule

| Phase Name | Phase Type | Start Date | End Date | Days Per Week | Work Days per Phase | Phase Description |
|--|--|------------|------------|---------------|---------------------|-------------------|
| Linear, Grubbing & Land Clearing | Linear, Grubbing & Land Clearing | 11/2/2026 | 11/23/2026 | 5.00 | 16.0 | — |
| Linear, Grading & Excavation | Linear, Grading & Excavation | 11/9/2026 | 11/30/2026 | 5.00 | 16.0 | — |
| Linear, Drainage, Utilities, & Sub-Grade | Linear, Drainage, Utilities, & Sub-Grade | 11/30/2026 | 12/21/2026 | 5.00 | 16.0 | — |
| Linear, Paving | Linear, Paving | 2/1/2027 | 2/22/2027 | 5.00 | 16.0 | — |
| Bridge Construction | Linear, Trenching | 12/21/2026 | 2/1/2027 | 5.00 | 31.0 | — |

5.2. Off-Road Equipment

5.2.1. Unmitigated

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor |
|----------------------------------|--------------------|-----------|-------------|----------------|---------------|------------|-------------|
| Linear, Grubbing & Land Clearing | Signal Boards | Electric | Average | 0.00 | 8.00 | 6.00 | 0.82 |
| Linear, Grubbing & Land Clearing | Skid Steer Loaders | Diesel | Average | 2.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grubbing & Land Clearing | Excavators | Diesel | Average | 4.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Linear, Grading & Excavation | Crawler Tractors | Diesel | Average | 3.00 | 8.00 | 87.0 | 0.43 |
| Linear, Grading & Excavation | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Linear, Grading & Excavation | Rollers | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |

| | | | | | | | |
|--|----------------------------|----------|---------|------|------|------|------|
| Linear, Grading & Excavation | Signal Boards | Electric | Average | 1.00 | 8.00 | 6.00 | 0.82 |
| Linear, Grading & Excavation | Scrapers | Diesel | Average | 1.00 | 8.00 | 423 | 0.48 |
| Linear, Grading & Excavation | Rubber Tired Loaders | Diesel | Average | 1.00 | 8.00 | 150 | 0.36 |
| Linear, Grading & Excavation | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Back hoes | Diesel | Average | 2.00 | 8.00 | 84.0 | 0.37 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers | Diesel | Average | 1.00 | 8.00 | 423 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards | Electric | Average | 1.00 | 8.00 | 6.00 | 0.82 |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts | Diesel | Average | 1.00 | 8.00 | 96.0 | 0.40 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors | Diesel | Average | 1.00 | 8.00 | 8.00 | 0.43 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps | Diesel | Average | 1.00 | 8.00 | 11.0 | 0.74 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors | Diesel | Average | 1.00 | 8.00 | 37.0 | 0.48 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets | Diesel | Average | 1.00 | 8.00 | 14.0 | 0.74 |
| Linear, Drainage, Utilities, & Sub-Grade | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Linear, Paving | Rollers | Diesel | Average | 3.00 | 8.00 | 36.0 | 0.38 |
| Linear, Paving | Paving Equipment | Diesel | Average | 2.00 | 8.00 | 89.0 | 0.36 |
| Linear, Paving | Pavers | Diesel | Average | 1.00 | 8.00 | 81.0 | 0.42 |
| Linear, Paving | Signal Boards | Electric | Average | 0.00 | 8.00 | 6.00 | 0.82 |
| Linear, Paving | Tractors/Loaders/Back hoes | Diesel | Average | 1.00 | 8.00 | 84.0 | 0.37 |

| | | | | | | | |
|---------------------|------------|--------|---------|------|------|------|------|
| Linear, Paving | Graders | Diesel | Average | 1.00 | 8.00 | 148 | 0.41 |
| Bridge Construction | Excavators | Diesel | Average | 1.00 | 8.00 | 36.0 | 0.38 |
| Bridge Construction | Cranes | Diesel | Average | 1.00 | 8.00 | 367 | 0.29 |
| Bridge Construction | Welders | Diesel | Average | 3.00 | 8.00 | 46.0 | 0.45 |

5.3. Construction Vehicles

5.3.1. Unmitigated

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Vehicle Mix |
|--|--------------|-----------------------|----------------|---------------|
| Linear, Grubbing & Land Clearing | — | — | — | — |
| Linear, Grubbing & Land Clearing | Worker | 15.0 | 11.2 | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing | Vendor | 0.00 | 9.01 | HHDT,MHDT |
| Linear, Grubbing & Land Clearing | Hauling | 15.3 | 20.0 | HHDT |
| Linear, Grubbing & Land Clearing | Onsite truck | 2.00 | 1.00 | HHDT |
| Linear, Grading & Excavation | — | — | — | — |
| Linear, Grading & Excavation | Worker | 25.0 | 11.2 | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation | Vendor | 2.00 | 9.01 | HHDT,MHDT |
| Linear, Grading & Excavation | Hauling | 1.75 | 20.0 | HHDT |
| Linear, Grading & Excavation | Onsite truck | 2.00 | 1.00 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | — | — | — | — |
| Linear, Drainage, Utilities, & Sub-Grade | Worker | 27.5 | 11.2 | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor | 0.00 | 9.01 | HHDT,MHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | 2.00 | 1.00 | HHDT |
| Linear, Paving | — | — | — | — |

| | | | | |
|---------------------|--------------|------|------|---------------|
| Linear, Paving | Worker | 20.0 | 11.2 | LDA,LDT1,LDT2 |
| Linear, Paving | Vendor | 0.00 | 9.01 | HHDT,MHDT |
| Linear, Paving | Hauling | 0.00 | 20.0 | HHDT |
| Linear, Paving | Onsite truck | 2.00 | 1.00 | HHDT |
| Bridge Construction | — | — | — | — |
| Bridge Construction | Worker | 12.5 | 11.2 | LDA,LDT1,LDT2 |
| Bridge Construction | Vendor | — | 9.01 | HHDT,MHDT |
| Bridge Construction | Hauling | 0.00 | 20.0 | HHDT |
| Bridge Construction | Onsite truck | 2.00 | 1.00 | HHDT |

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Non-applicable. No control strategies activated by user.

5.5. Architectural Coatings

| Phase Name | Residential Interior Area Coated (sq ft) | Residential Exterior Area Coated (sq ft) | Non-Residential Interior Area Coated (sq ft) | Non-Residential Exterior Area Coated (sq ft) | Parking Area Coated (sq ft) |
|------------|--|--|--|--|-----------------------------|
|------------|--|--|--|--|-----------------------------|

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

| Phase Name | Material Imported (Cubic Yards) | Material Exported (Cubic Yards) | Acres Graded (acres) | Material Demolished (Ton of Debris) | Acres Paved (acres) |
|--|---------------------------------|---------------------------------|----------------------|-------------------------------------|---------------------|
| Linear, Grubbing & Land Clearing | 0.00 | 96.0 | 1.05 | 932 | — |
| Linear, Grading & Excavation | 0.00 | 221 | 1.05 | 0.00 | — |
| Linear, Drainage, Utilities, & Sub-Grade | 0.00 | 0.00 | 1.05 | 0.00 | — |

5.6.2. Construction Earthmoving Control Strategies

| Control Strategies Applied | Frequency (per day) | PM10 Reduction | PM2.5 Reduction |
|----------------------------|---------------------|----------------|-----------------|
| Water Exposed Area | 2 | 61% | 61% |
| Water Demolished Area | 2 | 36% | 36% |

5.7. Construction Paving

| Land Use | Area Paved (acres) | % Asphalt |
|------------------------------|--------------------|-----------|
| Road Widening | 1.01 | 100% |
| Bridge/Overpass Construction | 0.04 | 100% |

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

| Year | kWh per Year | CO2 | CH4 | N2O |
|------|--------------|-----|------|---------|
| 2026 | 58.7 | 204 | 0.03 | < 0.005 |
| 2027 | 0.00 | 204 | 0.03 | < 0.005 |

8. User Changes to Default Data

| Screen | Justification |
|-----------------------------------|--|
| Construction: Construction Phases | Roadway construction estimated based on level of work needed within a 4-month period |
| Construction: Off-Road Equipment | Modifying for project based on equipment needed |
| Construction: Demolition | Removal of existing hardscape |

Fournier Road Improvement Project

Construction Vehicle Fuel

| Phase Name | Trip Type | One-Way Trips per Day | Miles per Trip | Days | VMT | Vehicle Mix |
|--|--------------|-----------------------|----------------|------|------|---------------|
| Linear, Grubbing & Land Clearing | Worker | 15 | 11.19 | 16 | 2686 | LDA,LDT1,LDT2 |
| Linear, Grubbing & Land Clearing | Vendor | 0 | 9.01 | 16 | 0 | HHDT,MHDT |
| Linear, Grubbing & Land Clearing | Hauling | 15 | 20.00 | 16 | 4900 | HHDT |
| Linear, Grubbing & Land Clearing | Onsite truck | 2 | 1.00 | 16 | 32 | HHDT |
| Linear, Grading & Excavation | Worker | 25 | 11.19 | 16 | 4476 | LDA,LDT1,LDT2 |
| Linear, Grading & Excavation | Vendor | 2 | 9.01 | 16 | 288 | HHDT,MHDT |
| Linear, Grading & Excavation | Hauling | 2 | 20.00 | 16 | 560 | HHDT |
| Linear, Grading & Excavation | Onsite truck | 2 | 1.00 | 16 | 32 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Worker | 28 | 11.19 | 16 | 4924 | LDA,LDT1,LDT2 |
| Linear, Drainage, Utilities, & Sub-Grade | Vendor | 0 | 9.01 | 16 | 0 | HHDT,MHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Hauling | 0 | 20.00 | 16 | 0 | HHDT |
| Linear, Drainage, Utilities, & Sub-Grade | Onsite truck | 2 | 1.00 | 16 | 32 | HHDT |
| Linear, Paving | Worker | 20 | 11.19 | 16 | 3581 | LDA,LDT1,LDT2 |
| Linear, Paving | Vendor | 0 | 9.01 | 16 | 0 | HHDT,MHDT |
| Linear, Paving | Hauling | 0 | 20.00 | 16 | 0 | HHDT |
| Linear, Paving | Onsite truck | 2 | 1.00 | 16 | 32 | HHDT |
| Bridge Construction | Worker | 13 | 11.19 | 31 | 4336 | LDA,LDT1,LDT2 |
| Bridge Construction | Vendor | | 9.01 | | | HHDT,MHDT |
| Bridge Construction | Hauling | 0 | 20.00 | 31 | 0 | HHDT |
| Bridge Construction | Onsite truck | 2 | 1.00 | 31 | 62 | HHDT |

| gal/mile | EMFAC Vehicle Category |
|------------|------------------------|
| 0.03381964 | LDA |
| 0.04364198 | LDT1 |
| 0.04355358 | LDT2 |
| 0.11766426 | MHDT |
| 0.20935551 | HHDT |

| Vehicle Category | VMT TOTALS |
|------------------|------------|
| LDA,LDT1,LDT2 | 20,002 |
| HHDT,MHDT | 288 |
| MHDT | - |
| HHDT | 5,650 |
| | 25,940 |

(County-Specific Fuel Efficiency)

Gasoline for Light Duty and Diesel for Heavy Duty - Consistent with CalEEMod Assumptions

Mariposa Mariposa County 2026

| Vehicle Category | Fuel Consumption (gal/mi) | Fuel (gallons) |
|------------------|---------------------------|----------------|
| LDA,LDT1,LDT2 | 0.041 | 823 |
| HHDT,MHDT | 0.164 | 47 |
| MHDT | 0.118 | - |
| HHDT | 0.209 | 1,183 |
| | | 2,053 |

Fournier Road Improvement Project

Off-Road Equipment Fuel Use

0.054 bhphr/gal
18.5 gal/bhp-hr

| Phase Name | Equipment Type | Fuel Type | Engine Tier | Number per Day | Hours Per Day | Horsepower | Load Factor | Days | bhp-hr | gallons |
|--|---------------------------|-----------|-------------|----------------|---------------|------------|-------------|------|--------|---------------|
| Linear, Grubbing & Land Clearing | Signal Boards | Electric | Average | 0 | 8 | 6 | 0.82 | 16 | 0 | - |
| Linear, Grubbing & Land Clearing | Skid Steer Loaders | Diesel | Average | 2 | 8 | 87 | 0.43 | 16 | 9577 | 517 |
| Linear, Grubbing & Land Clearing | Excavators | Diesel | Average | 4 | 8 | 36 | 0.38 | 16 | 7004 | 378 |
| Linear, Grading & Excavation | Excavators | Diesel | Average | 1 | 8 | 36 | 0.38 | 16 | 1751 | 95 |
| Linear, Grading & Excavation | Crawler Tractors | Diesel | Average | 3 | 8 | 87 | 0.43 | 16 | 14365 | 776 |
| Linear, Grading & Excavation | Graders | Diesel | Average | 1 | 8 | 148 | 0.41 | 16 | 7767 | 419 |
| Linear, Grading & Excavation | Rollers | Diesel | Average | 1 | 8 | 36 | 0.38 | 16 | 1751 | 95 |
| Linear, Grading & Excavation | Signal Boards | Electric | Average | 1 | 8 | 6 | 0.82 | 16 | 0 | - |
| Linear, Grading & Excavation | Scrapers | Diesel | Average | 1 | 8 | 423 | 0.48 | 16 | 25989 | 1,403 |
| Linear, Grading & Excavation | Rubber Tired Loaders | Diesel | Average | 1 | 8 | 150 | 0.36 | 16 | 6912 | 373 |
| Linear, Grading & Excavation | Tractors/Loaders/Backhoes | Diesel | Average | 1 | 8 | 84 | 0.37 | 16 | 3978 | 215 |
| Linear, Drainage, Utilities, & Sub-Grade | Tractors/Loaders/Backhoes | Diesel | Average | 2 | 8 | 84 | 0.37 | 16 | 7956 | 430 |
| Linear, Drainage, Utilities, & Sub-Grade | Scrapers | Diesel | Average | 1 | 8 | 423 | 0.48 | 16 | 25989 | 1,403 |
| Linear, Drainage, Utilities, & Sub-Grade | Signal Boards | Electric | Average | 1 | 8 | 6 | 0.82 | 16 | 0 | - |
| Linear, Drainage, Utilities, & Sub-Grade | Rough Terrain Forklifts | Diesel | Average | 1 | 8 | 96 | 0.4 | 16 | 4915 | 265 |
| Linear, Drainage, Utilities, & Sub-Grade | Graders | Diesel | Average | 1 | 8 | 148 | 0.41 | 16 | 7767 | 419 |
| Linear, Drainage, Utilities, & Sub-Grade | Plate Compactors | Diesel | Average | 1 | 8 | 8 | 0.43 | 16 | 440 | 24 |
| Linear, Drainage, Utilities, & Sub-Grade | Pumps | Diesel | Average | 1 | 8 | 11 | 0.74 | 16 | 1042 | 56 |
| Linear, Drainage, Utilities, & Sub-Grade | Air Compressors | Diesel | Average | 1 | 8 | 37 | 0.48 | 16 | 2273 | 123 |
| Linear, Drainage, Utilities, & Sub-Grade | Generator Sets | Diesel | Average | 1 | 8 | 14 | 0.74 | 16 | 1326 | 72 |
| Linear, Drainage, Utilities, & Sub-Grade | Excavators | Diesel | Average | 1 | 8 | 36 | 0.38 | 16 | 1751 | 95 |
| Linear, Paving | Rollers | Diesel | Average | 3 | 8 | 36 | 0.38 | 16 | 5253 | 284 |
| Linear, Paving | Paving Equipment | Diesel | Average | 2 | 8 | 89 | 0.36 | 16 | 8202 | 443 |
| Linear, Paving | Pavers | Diesel | Average | 1 | 8 | 81 | 0.42 | 16 | 4355 | 235 |
| Linear, Paving | Signal Boards | Electric | Average | 0 | 8 | 6 | 0.82 | 16 | 0 | - |
| Linear, Paving | Tractors/Loaders/Backhoes | Diesel | Average | 1 | 8 | 84 | 0.37 | 16 | 3978 | 215 |
| Linear, Paving | Graders | Diesel | Average | 1 | 8 | 148 | 0.41 | 16 | 7767 | 419 |
| Bridge Construction | Excavators | Diesel | Average | 1 | 8 | 36 | 0.38 | 31 | 3393 | 183 |
| Bridge Construction | Cranes | Diesel | Average | 1 | 8 | 367 | 0.29 | 31 | 26395 | 1,425 |
| Bridge Construction | Welders | Diesel | Average | 3 | 8 | 46 | 0.45 | 31 | 15401 | 832 |
| | | | | | | | | | | 11,194 |

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