

## Appendix C

### CalEEMod Input Assumptions and Outputs

This appendix contains complex quantitative data used to calculate air quality emissions of the project. If you have difficulty accessing these data, please call 415-927-6713 for assistance.

**Larkspur General Plan - Existing - Marin County, Annual**

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

**Larkspur General Plan - Existing  
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**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses             | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise   | 3,027.00 | Dwelling Unit | 189.19      | 3,027,000.00       | 8657       |
| Mobile Home Park      | 315.00   | Dwelling Unit | 39.68       | 378,000.00         | 901        |
| Single Family Housing | 2,964.00 | Dwelling Unit | 962.34      | 5,335,200.00       | 8477       |

**1.2 Other Project Characteristics**

|                          |        |                          |       |                           |       |
|--------------------------|--------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban  | Wind Speed (m/s)         | 2.2   | Precipitation Freq (Days) | 69    |
| Climate Zone             | 5      |                          |       | Operational Year          | 2020  |
| Utility Company          | MCE    |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 289.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr)  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - Assume Marin Clean Energy
- Land Use - Based on 6,306 dwelling units (48%MF, 47%SF, 5%MH)
- Construction Phase - no construction
- Off-road Equipment - no construction
- Vehicle Trips - Based on traffic data
- Vehicle Emission Factors - Emfac2021
- Woodstoves - No woodstoves
- Consumer Products - 85% of CalEEMod default for 2008
- Energy Use - Assume historical conditions
- Fleet Mix - Emfac2021 default

| Table Name           | Column Name | Default Value | New Value   |
|----------------------|-------------|---------------|-------------|
| tblConstructionPhase | NumDays     | 6,000.00      | 0.00        |
| tblConsumerProducts  | ROG_EF      | 2.14E-05      | 1.82E-05    |
| tblFleetMix          | HHD         | 3.5260e-003   | 3.4850e-003 |
| tblFleetMix          | HHD         | 3.5260e-003   | 3.4850e-003 |
| tblFleetMix          | HHD         | 3.5260e-003   | 3.4850e-003 |
| tblFleetMix          | LDA         | 0.54          | 0.50        |
| tblFleetMix          | LDA         | 0.54          | 0.50        |
| tblFleetMix          | LDA         | 0.54          | 0.50        |
| tblFleetMix          | LDT1        | 0.06          | 0.06        |
| tblFleetMix          | LDT1        | 0.06          | 0.06        |
| tblFleetMix          | LDT1        | 0.06          | 0.06        |
| tblFleetMix          | LDT2        | 0.21          | 0.24        |
| tblFleetMix          | LDT2        | 0.21          | 0.24        |
| tblFleetMix          | LDT2        | 0.21          | 0.24        |
| tblFleetMix          | LHD1        | 0.03          | 0.03        |
| tblFleetMix          | LHD1        | 0.03          | 0.03        |
| tblFleetMix          | LHD1        | 0.03          | 0.03        |
| tblFleetMix          | LHD2        | 5.0650e-003   | 5.5990e-003 |
| tblFleetMix          | LHD2        | 5.0650e-003   | 5.5990e-003 |
| tblFleetMix          | LHD2        | 5.0650e-003   | 5.5990e-003 |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MDV         | 0.12          | 0.12        |
| tblFleetMix          | MDV         | 0.12          | 0.12        |
| tblFleetMix          | MDV         | 0.12          | 0.12        |
| tblFleetMix          | MH          | 2.9720e-003   | 3.2110e-003 |

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|                     |                            |             |             |
|---------------------|----------------------------|-------------|-------------|
| tblFleetMix         | MH                         | 2.9720e-003 | 3.2110e-003 |
| tblFleetMix         | MH                         | 2.9720e-003 | 3.2110e-003 |
| tblFleetMix         | MHD                        | 6.8430e-003 | 8.0260e-003 |
| tblFleetMix         | MHD                        | 6.8430e-003 | 8.0260e-003 |
| tblFleetMix         | MHD                        | 6.8430e-003 | 8.0260e-003 |
| tblFleetMix         | OBUS                       | 7.0500e-004 | 7.7700e-004 |
| tblFleetMix         | OBUS                       | 7.0500e-004 | 7.7700e-004 |
| tblFleetMix         | OBUS                       | 7.0500e-004 | 7.7700e-004 |
| tblFleetMix         | SBUS                       | 7.1400e-004 | 6.2100e-004 |
| tblFleetMix         | SBUS                       | 7.1400e-004 | 6.2100e-004 |
| tblFleetMix         | SBUS                       | 7.1400e-004 | 6.2100e-004 |
| tblFleetMix         | UBUS                       | 3.7400e-004 | 4.5100e-004 |
| tblFleetMix         | UBUS                       | 3.7400e-004 | 4.5100e-004 |
| tblFleetMix         | UBUS                       | 3.7400e-004 | 4.5100e-004 |
| tblGrading          | AcresOfGrading             | 0.00        | 9,000.00    |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00        | 0.00        |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00        | 0.00        |
| tblVehicleEF        | HHD                        | 0.03        | 0.22        |
| tblVehicleEF        | HHD                        | 0.11        | 0.22        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 5.09        | 4.36        |
| tblVehicleEF        | HHD                        | 1.00        | 1.40        |
| tblVehicleEF        | HHD                        | 0.03        | 0.05        |
| tblVehicleEF        | HHD                        | 1,053.43    | 855.28      |
| tblVehicleEF        | HHD                        | 1,664.63    | 1,774.54    |
| tblVehicleEF        | HHD                        | 0.28        | 0.27        |
| tblVehicleEF        | HHD                        | 0.17        | 0.14        |
| tblVehicleEF        | HHD                        | 0.27        | 0.28        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 1.7000e-005 |
| tblVehicleEF        | HHD                        | 6.37        | 4.88        |
| tblVehicleEF        | HHD                        | 4.93        | 4.04        |
| tblVehicleEF        | HHD                        | 1.75        | 1.97        |
| tblVehicleEF        | HHD                        | 0.01        | 7.9370e-003 |
| tblVehicleEF        | HHD                        | 0.06        | 0.09        |
| tblVehicleEF        | HHD                        | 0.04        | 0.04        |
| tblVehicleEF        | HHD                        | 0.07        | 0.05        |
| tblVehicleEF        | HHD                        | 2.0000e-006 | 6.0000e-006 |
| tblVehicleEF        | HHD                        | 0.01        | 7.5900e-003 |
| tblVehicleEF        | HHD                        | 0.03        | 0.03        |
| tblVehicleEF        | HHD                        | 8.8300e-003 | 8.7810e-003 |
| tblVehicleEF        | HHD                        | 0.07        | 0.05        |
| tblVehicleEF        | HHD                        | 2.0000e-006 | 5.0000e-006 |
| tblVehicleEF        | HHD                        | 6.0000e-006 | 2.0510e-003 |
| tblVehicleEF        | HHD                        | 2.2200e-004 | 6.7900e-004 |
| tblVehicleEF        | HHD                        | 0.41        | 0.32        |
| tblVehicleEF        | HHD                        | 3.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 0.17        | 0.09        |
| tblVehicleEF        | HHD                        | 9.7000e-005 | 5.7620e-003 |
| tblVehicleEF        | HHD                        | 6.0000e-006 | 1.0000e-006 |
| tblVehicleEF        | HHD                        | 9.6660e-003 | 7.5440e-003 |
| tblVehicleEF        | HHD                        | 0.01        | 0.02        |
| tblVehicleEF        | HHD                        | 6.0000e-006 | 2.0510e-003 |
| tblVehicleEF        | HHD                        | 2.2200e-004 | 6.7900e-004 |
| tblVehicleEF        | HHD                        | 0.48        | 0.57        |
| tblVehicleEF        | HHD                        | 3.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 0.29        | 0.32        |
| tblVehicleEF        | HHD                        | 9.7000e-005 | 5.7620e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | HHD  | 6.0000e-006 | 1.0000e-006 |
| tblVehicleEF | LDA  | 3.4200e-003 | 3.7120e-003 |
| tblVehicleEF | LDA  | 0.07        | 0.09        |
| tblVehicleEF | LDA  | 0.74        | 0.91        |
| tblVehicleEF | LDA  | 2.46        | 4.27        |
| tblVehicleEF | LDA  | 270.62      | 275.80      |
| tblVehicleEF | LDA  | 56.41       | 72.35       |
| tblVehicleEF | LDA  | 6.0790e-003 | 6.4620e-003 |
| tblVehicleEF | LDA  | 0.03        | 0.03        |
| tblVehicleEF | LDA  | 0.06        | 0.07        |
| tblVehicleEF | LDA  | 0.23        | 0.32        |
| tblVehicleEF | LDA  | 0.04        | 6.6110e-003 |
| tblVehicleEF | LDA  | 1.8010e-003 | 1.5940e-003 |
| tblVehicleEF | LDA  | 2.0940e-003 | 2.3880e-003 |
| tblVehicleEF | LDA  | 0.02        | 2.3140e-003 |
| tblVehicleEF | LDA  | 1.6640e-003 | 1.4730e-003 |
| tblVehicleEF | LDA  | 1.9260e-003 | 2.1960e-003 |
| tblVehicleEF | LDA  | 0.05        | 0.34        |
| tblVehicleEF | LDA  | 0.13        | 0.11        |
| tblVehicleEF | LDA  | 0.05        | 0.00        |
| tblVehicleEF | LDA  | 0.01        | 0.02        |
| tblVehicleEF | LDA  | 0.03        | 0.28        |
| tblVehicleEF | LDA  | 0.31        | 0.45        |
| tblVehicleEF | LDA  | 2.6760e-003 | 2.7260e-003 |
| tblVehicleEF | LDA  | 5.5800e-004 | 7.1500e-004 |
| tblVehicleEF | LDA  | 0.05        | 0.34        |
| tblVehicleEF | LDA  | 0.13        | 0.11        |
| tblVehicleEF | LDA  | 0.05        | 0.00        |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.03        | 0.28        |
| tblVehicleEF | LDA  | 0.34        | 0.49        |
| tblVehicleEF | LDT1 | 6.6360e-003 | 9.4610e-003 |
| tblVehicleEF | LDT1 | 0.09        | 0.15        |
| tblVehicleEF | LDT1 | 1.29        | 1.93        |
| tblVehicleEF | LDT1 | 2.79        | 8.23        |
| tblVehicleEF | LDT1 | 324.47      | 348.28      |
| tblVehicleEF | LDT1 | 69.11       | 96.59       |
| tblVehicleEF | LDT1 | 9.3770e-003 | 0.01        |
| tblVehicleEF | LDT1 | 0.03        | 0.04        |
| tblVehicleEF | LDT1 | 0.13        | 0.21        |
| tblVehicleEF | LDT1 | 0.33        | 0.53        |
| tblVehicleEF | LDT1 | 0.04        | 8.2400e-003 |
| tblVehicleEF | LDT1 | 2.2490e-003 | 2.4610e-003 |
| tblVehicleEF | LDT1 | 2.9240e-003 | 3.9960e-003 |
| tblVehicleEF | LDT1 | 0.02        | 2.8840e-003 |
| tblVehicleEF | LDT1 | 2.0710e-003 | 2.2660e-003 |
| tblVehicleEF | LDT1 | 2.6890e-003 | 3.6750e-003 |
| tblVehicleEF | LDT1 | 0.11        | 0.77        |
| tblVehicleEF | LDT1 | 0.24        | 0.23        |
| tblVehicleEF | LDT1 | 0.09        | 0.00        |
| tblVehicleEF | LDT1 | 0.03        | 0.04        |
| tblVehicleEF | LDT1 | 0.12        | 0.68        |
| tblVehicleEF | LDT1 | 0.49        | 0.83        |
| tblVehicleEF | LDT1 | 3.2110e-003 | 3.4430e-003 |
| tblVehicleEF | LDT1 | 6.8400e-004 | 9.5500e-004 |
| tblVehicleEF | LDT1 | 0.11        | 0.77        |
| tblVehicleEF | LDT1 | 0.24        | 0.23        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.09        | 0.00        |
| tblVehicleEF | LDT1 | 0.04        | 0.06        |
| tblVehicleEF | LDT1 | 0.12        | 0.68        |
| tblVehicleEF | LDT1 | 0.54        | 0.91        |
| tblVehicleEF | LDT2 | 4.2450e-003 | 3.6590e-003 |
| tblVehicleEF | LDT2 | 0.08        | 0.10        |
| tblVehicleEF | LDT2 | 0.89        | 0.96        |
| tblVehicleEF | LDT2 | 3.11        | 4.68        |
| tblVehicleEF | LDT2 | 354.24      | 369.13      |
| tblVehicleEF | LDT2 | 74.90       | 95.01       |
| tblVehicleEF | LDT2 | 8.0360e-003 | 7.8710e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.04        |
| tblVehicleEF | LDT2 | 0.09        | 0.10        |
| tblVehicleEF | LDT2 | 0.35        | 0.44        |
| tblVehicleEF | LDT2 | 0.04        | 7.8780e-003 |
| tblVehicleEF | LDT2 | 1.5820e-003 | 1.5530e-003 |
| tblVehicleEF | LDT2 | 1.9420e-003 | 2.3920e-003 |
| tblVehicleEF | LDT2 | 0.02        | 2.7570e-003 |
| tblVehicleEF | LDT2 | 1.4570e-003 | 1.4290e-003 |
| tblVehicleEF | LDT2 | 1.7860e-003 | 2.2000e-003 |
| tblVehicleEF | LDT2 | 0.06        | 0.29        |
| tblVehicleEF | LDT2 | 0.14        | 0.09        |
| tblVehicleEF | LDT2 | 0.06        | 0.00        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.06        | 0.23        |
| tblVehicleEF | LDT2 | 0.40        | 0.49        |
| tblVehicleEF | LDT2 | 3.5040e-003 | 3.6480e-003 |
| tblVehicleEF | LDT2 | 7.4100e-004 | 9.3900e-004 |
| tblVehicleEF | LDT2 | 0.06        | 0.29        |
| tblVehicleEF | LDT2 | 0.14        | 0.09        |
| tblVehicleEF | LDT2 | 0.06        | 0.00        |
| tblVehicleEF | LDT2 | 0.03        | 0.02        |
| tblVehicleEF | LDT2 | 0.06        | 0.23        |
| tblVehicleEF | LDT2 | 0.44        | 0.54        |
| tblVehicleEF | LHD1 | 5.3110e-003 | 5.4900e-003 |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 0.02        | 0.03        |
| tblVehicleEF | LHD1 | 0.18        | 0.19        |
| tblVehicleEF | LHD1 | 1.18        | 1.35        |
| tblVehicleEF | LHD1 | 1.21        | 2.04        |
| tblVehicleEF | LHD1 | 9.30        | 9.20        |
| tblVehicleEF | LHD1 | 824.57      | 834.12      |
| tblVehicleEF | LHD1 | 12.00       | 17.20       |
| tblVehicleEF | LHD1 | 7.9300e-004 | 7.1700e-004 |
| tblVehicleEF | LHD1 | 0.05        | 0.05        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 0.07        | 0.07        |
| tblVehicleEF | LHD1 | 1.32        | 1.29        |
| tblVehicleEF | LHD1 | 0.35        | 0.48        |
| tblVehicleEF | LHD1 | 8.7700e-004 | 7.9100e-004 |
| tblVehicleEF | LHD1 | 0.08        | 0.08        |
| tblVehicleEF | LHD1 | 9.7750e-003 | 9.5220e-003 |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 3.1800e-004 | 3.3400e-004 |
| tblVehicleEF | LHD1 | 8.3900e-004 | 7.5600e-004 |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 2.4440e-003 | 2.3810e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.01        | 0.02        |
| tblVehicleEF | LHD1 | 2.9300e-004 | 3.0800e-004 |
| tblVehicleEF | LHD1 | 2.1070e-003 | 0.14        |
| tblVehicleEF | LHD1 | 0.09        | 0.04        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 1.1370e-003 | 0.00        |
| tblVehicleEF | LHD1 | 0.12        | 0.15        |
| tblVehicleEF | LHD1 | 0.26        | 0.21        |
| tblVehicleEF | LHD1 | 0.10        | 0.14        |
| tblVehicleEF | LHD1 | 9.0000e-005 | 8.9000e-005 |
| tblVehicleEF | LHD1 | 8.0480e-003 | 8.1450e-003 |
| tblVehicleEF | LHD1 | 1.1900e-004 | 1.7000e-004 |
| tblVehicleEF | LHD1 | 2.1070e-003 | 0.14        |
| tblVehicleEF | LHD1 | 0.09        | 0.04        |
| tblVehicleEF | LHD1 | 0.03        | 0.03        |
| tblVehicleEF | LHD1 | 1.1370e-003 | 0.00        |
| tblVehicleEF | LHD1 | 0.16        | 0.18        |
| tblVehicleEF | LHD1 | 0.26        | 0.21        |
| tblVehicleEF | LHD1 | 0.11        | 0.15        |
| tblVehicleEF | LHD2 | 3.7130e-003 | 3.7870e-003 |
| tblVehicleEF | LHD2 | 8.9990e-003 | 0.01        |
| tblVehicleEF | LHD2 | 0.01        | 0.02        |
| tblVehicleEF | LHD2 | 0.15        | 0.15        |
| tblVehicleEF | LHD2 | 0.80        | 0.85        |
| tblVehicleEF | LHD2 | 0.80        | 1.35        |
| tblVehicleEF | LHD2 | 14.14       | 14.03       |
| tblVehicleEF | LHD2 | 817.86      | 891.84      |
| tblVehicleEF | LHD2 | 9.06        | 11.50       |
| tblVehicleEF | LHD2 | 1.6960e-003 | 1.6430e-003 |
| tblVehicleEF | LHD2 | 0.07        | 0.09        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 0.11        | 0.11        |
| tblVehicleEF | LHD2 | 1.21        | 1.32        |
| tblVehicleEF | LHD2 | 0.23        | 0.31        |
| tblVehicleEF | LHD2 | 1.3200e-003 | 1.2710e-003 |
| tblVehicleEF | LHD2 | 0.09        | 0.09        |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 0.02        | 0.03        |
| tblVehicleEF | LHD2 | 1.6200e-004 | 1.6300e-004 |
| tblVehicleEF | LHD2 | 1.2630e-003 | 1.2160e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.03        |
| tblVehicleEF | LHD2 | 2.6560e-003 | 2.6350e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.03        |
| tblVehicleEF | LHD2 | 1.4900e-004 | 1.5000e-004 |
| tblVehicleEF | LHD2 | 1.1800e-003 | 0.08        |
| tblVehicleEF | LHD2 | 0.05        | 0.02        |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 6.4400e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.12        | 0.15        |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.06        | 0.09        |
| tblVehicleEF | LHD2 | 7.9100e-003 | 8.6110e-003 |
| tblVehicleEF | LHD2 | 9.0000e-005 | 1.1400e-004 |
| tblVehicleEF | LHD2 | 1.1800e-003 | 0.08        |
| tblVehicleEF | LHD2 | 0.05        | 0.02        |
| tblVehicleEF | LHD2 | 0.02        | 0.03        |
| tblVehicleEF | LHD2 | 6.4400e-004 | 0.00        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.15        | 0.18        |
| tblVehicleEF | LHD2 | 0.12        | 0.12        |
| tblVehicleEF | LHD2 | 0.06        | 0.09        |
| tblVehicleEF | MCY  | 0.35        | 0.20        |
| tblVehicleEF | MCY  | 0.27        | 0.22        |
| tblVehicleEF | MCY  | 22.63       | 16.59       |
| tblVehicleEF | MCY  | 9.02        | 8.55        |
| tblVehicleEF | MCY  | 219.04      | 195.00      |
| tblVehicleEF | MCY  | 63.30       | 56.86       |
| tblVehicleEF | MCY  | 0.07        | 0.05        |
| tblVehicleEF | MCY  | 0.02        | 0.01        |
| tblVehicleEF | MCY  | 1.20        | 0.70        |
| tblVehicleEF | MCY  | 0.27        | 0.18        |
| tblVehicleEF | MCY  | 0.01        | 0.01        |
| tblVehicleEF | MCY  | 2.0500e-003 | 2.0690e-003 |
| tblVehicleEF | MCY  | 4.0540e-003 | 4.7710e-003 |
| tblVehicleEF | MCY  | 5.0400e-003 | 4.2000e-003 |
| tblVehicleEF | MCY  | 1.9250e-003 | 1.9470e-003 |
| tblVehicleEF | MCY  | 3.8380e-003 | 4.5180e-003 |
| tblVehicleEF | MCY  | 0.80        | 4.09        |
| tblVehicleEF | MCY  | 0.83        | 3.58        |
| tblVehicleEF | MCY  | 0.50        | 0.00        |
| tblVehicleEF | MCY  | 2.45        | 1.42        |
| tblVehicleEF | MCY  | 0.74        | 3.75        |
| tblVehicleEF | MCY  | 2.07        | 1.72        |
| tblVehicleEF | MCY  | 2.1680e-003 | 1.9280e-003 |
| tblVehicleEF | MCY  | 6.2600e-004 | 5.6200e-004 |
| tblVehicleEF | MCY  | 0.80        | 0.11        |
| tblVehicleEF | MCY  | 0.83        | 3.58        |
| tblVehicleEF | MCY  | 0.50        | 0.00        |
| tblVehicleEF | MCY  | 2.99        | 1.67        |
| tblVehicleEF | MCY  | 0.74        | 3.75        |
| tblVehicleEF | MCY  | 2.25        | 1.87        |
| tblVehicleEF | MDV  | 5.7700e-003 | 6.1190e-003 |
| tblVehicleEF | MDV  | 0.10        | 0.13        |
| tblVehicleEF | MDV  | 1.11        | 1.32        |
| tblVehicleEF | MDV  | 3.62        | 5.43        |
| tblVehicleEF | MDV  | 429.13      | 448.92      |
| tblVehicleEF | MDV  | 88.98       | 113.79      |
| tblVehicleEF | MDV  | 0.01        | 0.01        |
| tblVehicleEF | MDV  | 0.04        | 0.05        |
| tblVehicleEF | MDV  | 0.13        | 0.17        |
| tblVehicleEF | MDV  | 0.41        | 0.60        |
| tblVehicleEF | MDV  | 0.04        | 8.0910e-003 |
| tblVehicleEF | MDV  | 1.8280e-003 | 1.7840e-003 |
| tblVehicleEF | MDV  | 2.1840e-003 | 2.6780e-003 |
| tblVehicleEF | MDV  | 0.02        | 2.8320e-003 |
| tblVehicleEF | MDV  | 1.6900e-003 | 1.6500e-003 |
| tblVehicleEF | MDV  | 2.0110e-003 | 2.4650e-003 |
| tblVehicleEF | MDV  | 0.07        | 0.36        |
| tblVehicleEF | MDV  | 0.15        | 0.11        |
| tblVehicleEF | MDV  | 0.07        | 0.00        |
| tblVehicleEF | MDV  | 0.03        | 0.03        |
| tblVehicleEF | MDV  | 0.07        | 0.30        |
| tblVehicleEF | MDV  | 0.50        | 0.72        |
| tblVehicleEF | MDV  | 4.2390e-003 | 4.4320e-003 |
| tblVehicleEF | MDV  | 8.8100e-004 | 1.1250e-003 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.07        | 0.36        |
| tblVehicleEF | MDV | 0.15        | 0.11        |
| tblVehicleEF | MDV | 0.07        | 0.00        |
| tblVehicleEF | MDV | 0.04        | 0.04        |
| tblVehicleEF | MDV | 0.07        | 0.30        |
| tblVehicleEF | MDV | 0.55        | 0.79        |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.02        | 0.03        |
| tblVehicleEF | MH  | 1.90        | 3.10        |
| tblVehicleEF | MH  | 2.40        | 2.77        |
| tblVehicleEF | MH  | 1,575.53    | 1,634.19    |
| tblVehicleEF | MH  | 19.33       | 22.95       |
| tblVehicleEF | MH  | 0.07        | 0.09        |
| tblVehicleEF | MH  | 0.02        | 0.03        |
| tblVehicleEF | MH  | 1.76        | 1.98        |
| tblVehicleEF | MH  | 0.23        | 0.27        |
| tblVehicleEF | MH  | 0.13        | 0.04        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 3.2900e-004 | 4.7300e-004 |
| tblVehicleEF | MH  | 0.06        | 0.02        |
| tblVehicleEF | MH  | 3.3050e-003 | 3.3650e-003 |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 3.0300e-004 | 4.3800e-004 |
| tblVehicleEF | MH  | 0.76        | 35.22       |
| tblVehicleEF | MH  | 0.07        | 11.74       |
| tblVehicleEF | MH  | 0.28        | 0.00        |
| tblVehicleEF | MH  | 0.10        | 0.15        |
| tblVehicleEF | MH  | 0.02        | 0.24        |
| tblVehicleEF | MH  | 0.11        | 0.14        |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 1.9100e-004 | 2.2700e-004 |
| tblVehicleEF | MH  | 0.76        | 35.22       |
| tblVehicleEF | MH  | 0.07        | 11.74       |
| tblVehicleEF | MH  | 0.28        | 0.00        |
| tblVehicleEF | MH  | 0.14        | 0.19        |
| tblVehicleEF | MH  | 0.02        | 0.24        |
| tblVehicleEF | MH  | 0.12        | 0.15        |
| tblVehicleEF | MHD | 4.9390e-003 | 0.02        |
| tblVehicleEF | MHD | 0.01        | 0.02        |
| tblVehicleEF | MHD | 0.02        | 0.02        |
| tblVehicleEF | MHD | 0.49        | 0.72        |
| tblVehicleEF | MHD | 1.21        | 1.28        |
| tblVehicleEF | MHD | 2.06        | 2.49        |
| tblVehicleEF | MHD | 99.18       | 159.09      |
| tblVehicleEF | MHD | 1,244.25    | 1,330.36    |
| tblVehicleEF | MHD | 14.78       | 17.48       |
| tblVehicleEF | MHD | 0.01        | 0.02        |
| tblVehicleEF | MHD | 0.15        | 0.15        |
| tblVehicleEF | MHD | 9.9470e-003 | 0.01        |
| tblVehicleEF | MHD | 0.93        | 1.39        |
| tblVehicleEF | MHD | 3.19        | 2.59        |
| tblVehicleEF | MHD | 0.97        | 0.94        |
| tblVehicleEF | MHD | 2.4650e-003 | 6.3490e-003 |
| tblVehicleEF | MHD | 0.13        | 0.05        |
| tblVehicleEF | MHD | 0.08        | 0.05        |
| tblVehicleEF | MHD | 2.0600e-004 | 2.6900e-004 |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 2.3580e-003 | 6.0740e-003 |
| tblVehicleEF | MHD  | 0.06        | 0.02        |
| tblVehicleEF | MHD  | 0.08        | 0.05        |
| tblVehicleEF | MHD  | 1.9000e-004 | 2.4700e-004 |
| tblVehicleEF | MHD  | 8.1200e-004 | 0.06        |
| tblVehicleEF | MHD  | 0.04        | 0.02        |
| tblVehicleEF | MHD  | 0.03        | 0.04        |
| tblVehicleEF | MHD  | 4.4800e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.23        | 0.14        |
| tblVehicleEF | MHD  | 0.05        | 0.15        |
| tblVehicleEF | MHD  | 0.09        | 0.11        |
| tblVehicleEF | MHD  | 9.4100e-004 | 1.4800e-003 |
| tblVehicleEF | MHD  | 0.01        | 0.01        |
| tblVehicleEF | MHD  | 1.4600e-004 | 1.7300e-004 |
| tblVehicleEF | MHD  | 8.1200e-004 | 0.06        |
| tblVehicleEF | MHD  | 0.04        | 0.02        |
| tblVehicleEF | MHD  | 0.04        | 0.07        |
| tblVehicleEF | MHD  | 4.4800e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.27        | 0.18        |
| tblVehicleEF | MHD  | 0.05        | 0.15        |
| tblVehicleEF | MHD  | 0.10        | 0.12        |
| tblVehicleEF | OBUS | 9.8750e-003 | 9.1730e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.01        |
| tblVehicleEF | OBUS | 0.03        | 0.03        |
| tblVehicleEF | OBUS | 0.49        | 0.43        |
| tblVehicleEF | OBUS | 1.48        | 1.41        |
| tblVehicleEF | OBUS | 3.02        | 3.34        |
| tblVehicleEF | OBUS | 66.43       | 56.38       |
| tblVehicleEF | OBUS | 1,666.48    | 1,705.28    |
| tblVehicleEF | OBUS | 23.43       | 27.67       |
| tblVehicleEF | OBUS | 8.0800e-003 | 6.5500e-003 |
| tblVehicleEF | OBUS | 0.08        | 0.09        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.43        | 0.30        |
| tblVehicleEF | OBUS | 1.77        | 1.64        |
| tblVehicleEF | OBUS | 0.48        | 0.54        |
| tblVehicleEF | OBUS | 2.0290e-003 | 9.4000e-004 |
| tblVehicleEF | OBUS | 0.13        | 0.05        |
| tblVehicleEF | OBUS | 0.04        | 0.03        |
| tblVehicleEF | OBUS | 1.8600e-004 | 3.0800e-004 |
| tblVehicleEF | OBUS | 1.9410e-003 | 8.9900e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.02        |
| tblVehicleEF | OBUS | 0.04        | 0.03        |
| tblVehicleEF | OBUS | 1.7100e-004 | 2.8600e-004 |
| tblVehicleEF | OBUS | 1.1600e-003 | 0.08        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.06        | 0.05        |
| tblVehicleEF | OBUS | 5.6000e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.14        | 0.13        |
| tblVehicleEF | OBUS | 0.07        | 0.09        |
| tblVehicleEF | OBUS | 0.14        | 0.18        |
| tblVehicleEF | OBUS | 6.3500e-004 | 5.4000e-004 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 2.3200e-004 | 2.7400e-004 |
| tblVehicleEF | OBUS | 1.1600e-003 | 0.08        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.08        | 0.06        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 5.6000e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.18        | 0.17        |
| tblVehicleEF | OBUS | 0.07        | 0.09        |
| tblVehicleEF | OBUS | 0.16        | 0.19        |
| tblVehicleEF | SBUS | 0.04        | 0.09        |
| tblVehicleEF | SBUS | 0.01        | 0.07        |
| tblVehicleEF | SBUS | 4.7620e-003 | 8.5190e-003 |
| tblVehicleEF | SBUS | 1.70        | 2.44        |
| tblVehicleEF | SBUS | 1.20        | 2.01        |
| tblVehicleEF | SBUS | 0.80        | 1.34        |
| tblVehicleEF | SBUS | 349.40      | 221.87      |
| tblVehicleEF | SBUS | 1,098.53    | 1,037.75    |
| tblVehicleEF | SBUS | 3.63        | 6.77        |
| tblVehicleEF | SBUS | 0.05        | 0.03        |
| tblVehicleEF | SBUS | 0.15        | 0.12        |
| tblVehicleEF | SBUS | 3.1440e-003 | 6.4610e-003 |
| tblVehicleEF | SBUS | 4.50        | 1.89        |
| tblVehicleEF | SBUS | 7.17        | 3.76        |
| tblVehicleEF | SBUS | 0.43        | 0.35        |
| tblVehicleEF | SBUS | 5.6960e-003 | 2.2190e-003 |
| tblVehicleEF | SBUS | 0.74        | 0.05        |
| tblVehicleEF | SBUS | 0.01        | 0.01        |
| tblVehicleEF | SBUS | 0.04        | 0.02        |
| tblVehicleEF | SBUS | 5.3000e-005 | 1.4600e-004 |
| tblVehicleEF | SBUS | 5.4500e-003 | 2.1230e-003 |
| tblVehicleEF | SBUS | 0.32        | 0.02        |
| tblVehicleEF | SBUS | 2.7470e-003 | 2.5840e-003 |
| tblVehicleEF | SBUS | 0.04        | 0.02        |
| tblVehicleEF | SBUS | 4.9000e-005 | 1.3400e-004 |
| tblVehicleEF | SBUS | 7.3900e-004 | 0.08        |
| tblVehicleEF | SBUS | 8.8330e-003 | 0.03        |
| tblVehicleEF | SBUS | 0.20        | 0.29        |
| tblVehicleEF | SBUS | 2.5800e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.13        | 0.11        |
| tblVehicleEF | SBUS | 0.02        | 0.08        |
| tblVehicleEF | SBUS | 0.03        | 0.05        |
| tblVehicleEF | SBUS | 3.3200e-003 | 2.0650e-003 |
| tblVehicleEF | SBUS | 0.01        | 9.7830e-003 |
| tblVehicleEF | SBUS | 3.6000e-005 | 6.7000e-005 |
| tblVehicleEF | SBUS | 7.3900e-004 | 0.08        |
| tblVehicleEF | SBUS | 8.8330e-003 | 0.03        |
| tblVehicleEF | SBUS | 0.28        | 0.45        |
| tblVehicleEF | SBUS | 2.5800e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.16        | 0.20        |
| tblVehicleEF | SBUS | 0.02        | 0.08        |
| tblVehicleEF | SBUS | 0.03        | 0.06        |
| tblVehicleEF | UBUS | 0.17        | 5.6350e-003 |
| tblVehicleEF | UBUS | 0.04        | 0.05        |
| tblVehicleEF | UBUS | 0.87        | 0.28        |
| tblVehicleEF | UBUS | 2.75        | 3.79        |
| tblVehicleEF | UBUS | 1,932.62    | 1,261.19    |
| tblVehicleEF | UBUS | 31.75       | 35.92       |
| tblVehicleEF | UBUS | 0.14        | 0.10        |
| tblVehicleEF | UBUS | 0.03        | 0.04        |
| tblVehicleEF | UBUS | 1.53        | 0.82        |
| tblVehicleEF | UBUS | 0.30        | 0.39        |
| tblVehicleEF | UBUS | 0.11        | 0.35        |

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

|                 |                   |             |             |
|-----------------|-------------------|-------------|-------------|
| tblVehicleEF    | UBUS              | 0.02        | 0.07        |
| tblVehicleEF    | UBUS              | 4.1700e-003 | 3.9450e-003 |
| tblVehicleEF    | UBUS              | 1.8500e-004 | 1.5100e-004 |
| tblVehicleEF    | UBUS              | 0.05        | 0.12        |
| tblVehicleEF    | UBUS              | 5.0890e-003 | 0.02        |
| tblVehicleEF    | UBUS              | 3.9650e-003 | 3.7600e-003 |
| tblVehicleEF    | UBUS              | 1.7000e-004 | 1.3900e-004 |
| tblVehicleEF    | UBUS              | 9.1000e-004 | 0.07        |
| tblVehicleEF    | UBUS              | 0.01        | 0.03        |
| tblVehicleEF    | UBUS              | 5.6900e-004 | 0.00        |
| tblVehicleEF    | UBUS              | 0.01        | 0.06        |
| tblVehicleEF    | UBUS              | 4.1980e-003 | 0.05        |
| tblVehicleEF    | UBUS              | 0.16        | 0.19        |
| tblVehicleEF    | UBUS              | 0.02        | 0.01        |
| tblVehicleEF    | UBUS              | 3.1400e-004 | 3.5500e-004 |
| tblVehicleEF    | UBUS              | 9.1000e-004 | 0.07        |
| tblVehicleEF    | UBUS              | 0.01        | 0.03        |
| tblVehicleEF    | UBUS              | 5.6900e-004 | 0.00        |
| tblVehicleEF    | UBUS              | 0.18        | 0.07        |
| tblVehicleEF    | UBUS              | 4.1980e-003 | 0.05        |
| tblVehicleEF    | UBUS              | 0.18        | 0.21        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.64        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.64        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.64        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.64        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.64        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.64        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.64        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.64        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.64        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | ST_TR             | 8.14        | 7.36        |
| tblVehicleTrips | ST_TR             | 4.61        | 7.36        |
| tblVehicleTrips | ST_TR             | 9.54        | 7.36        |
| tblVehicleTrips | SU_TR             | 6.28        | 5.68        |
| tblVehicleTrips | SU_TR             | 4.24        | 5.68        |
| tblVehicleTrips | SU_TR             | 8.55        | 5.68        |
| tblVehicleTrips | WD_TR             | 7.32        | 6.62        |
| tblVehicleTrips | WD_TR             | 5.00        | 6.62        |
| tblVehicleTrips | WD_TR             | 9.44        | 6.62        |
| tblWoodstoves   | WoodstoveWoodMass | 582.40      | 0.00        |
| tblWoodstoves   | WoodstoveWoodMass | 582.40      | 0.00        |
| tblWoodstoves   | WoodstoveWoodMass | 956.80      | 0.00        |

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

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

|         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| 2024    | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| 2024    | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

|                   | ROG        | NOx      | CO   | SO2  | 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 |
| Quarter           | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) |      |               |              | Maximum Mitigated ROG + NOX (tons/quarter) |                |               |             |          |           |           |      |      |      |
|                   |            | Highest  |  |      |               |              |  |                |               |             |          |           |           |      |      |      |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG            | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2          | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|-------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | tons/yr        |                |                 |               |                |               |                |                |               |                | MT/yr             |                    |                    |                |               |                    |
| Area         | 60.7660        | 0.9513         | 73.6595         | 0.0455        |                | 3.9160        | 3.9160         |                | 3.9160        | 3.9160         | 325.0992          | 231.5721           | 556.6712           | 0.0776         | 0.0315        | 568.0055           |
| Energy       | 1.3444         | 11.4888        | 4.8889          | 0.0733        |                | 0.9289        | 0.9289         |                | 0.9289        | 0.9289         | 0.0000            | 17,673.7217        | 17,673.7217        | 0.7522         | 0.3042        | 17,783.1737        |
| Mobile       | 33.5030        | 23.0184        | 193.8007        | 0.2886        | 23.5697        | 0.2874        | 23.8571        | 5.8753         | 0.2693        | 6.1446         | 0.0000            | 26,601.3755        | 26,601.3755        | 2.3143         | 1.5057        | 27,107.9185        |
| Waste        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000         | 1,034.7789        | 0.0000             | 1,034.7789         | 61.1537        | 0.0000        | 2,563.6210         |
| Water        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000         | 130.3473          | 411.6638           | 542.0112           | 13.4348        | 0.3218        | 973.7757           |
| <b>Total</b> | <b>95.6135</b> | <b>35.4585</b> | <b>272.3491</b> | <b>0.4074</b> | <b>23.5697</b> | <b>5.1323</b> | <b>28.7020</b> | <b>5.8753</b>  | <b>5.1142</b> | <b>10.9895</b> | <b>1,490.2254</b> | <b>44,918.3330</b> | <b>46,408.5585</b> | <b>77.7325</b> | <b>2.1632</b> | <b>48,996.4943</b> |

**Mitigated Operational**

|          | ROG     | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|----------|---------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | tons/yr |         |          |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Area     | 60.7660 | 0.9513  | 73.6595  | 0.0455 |               | 3.9160       | 3.9160     |                | 3.9160        | 3.9160      | 325.0992 | 231.5721    | 556.6712    | 0.0776 | 0.0315 | 568.0055    |
| Energy   | 1.3444  | 11.4888 | 4.8889   | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 17,673.7217 | 17,673.7217 | 0.7522 | 0.3042 | 17,783.1737 |
| Mobile   | 33.5030 | 23.0184 | 193.8007 | 0.2886 | 23.5697       | 0.2874       | 23.8571    | 5.8753         | 0.2693        | 6.1446      | 0.0000   | 26,601.3755 | 26,601.3755 | 2.3143 | 1.5057 | 27,107.9185 |



**Larkspur General Plan - Existing - Marin County, Annual**

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

|              |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Fugitive Dust | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx     | CO       | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|---------|----------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |         |          |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 33.5030 | 23.0184 | 193.8007 | 0.2886 | 23.5697       | 0.2874       | 23.8571    | 5.8753         | 0.2693        | 6.1446      | 0.0000   | 26,601.3755 | 26,601.3755 | 2.3143 | 1.5057 | 27,107.9185 |
| Unmitigated | 33.5030 | 23.0184 | 193.8007 | 0.2886 | 23.5697       | 0.2874       | 23.8571    | 5.8753         | 0.2693        | 6.1446      | 0.0000   | 26,601.3755 | 26,601.3755 | 2.3143 | 1.5057 | 27,107.9185 |

**4.2 Trip Summary Information**

| Land Use              | Average Daily Trip Rate |                  |                  | Unmitigated Annual VMT | Mitigated Annual VMT |
|-----------------------|-------------------------|------------------|------------------|------------------------|----------------------|
|                       | Weekday                 | Saturday         | Sunday           |                        |                      |
| Apartments Low Rise   | 20,038.74               | 22,278.72        | 17,193.36        | 33,698,559             | 33,698,559           |
| Mobile Home Park      | 2,085.30                | 2,318.40         | 1,789.20         | 3,506,788              | 3,506,788            |
| Single Family Housing | 19,621.68               | 21,915.04        | 16,835.52        | 32,997,202             | 32,997,202           |
| <b>Total</b>          | <b>41,745.72</b>        | <b>46,412.16</b> | <b>35,818.08</b> | <b>70,202,549</b>      | <b>70,202,549</b>    |

**4.3 Trip Type Information**

**Larkspur General Plan - Existing - Marin County, Annual**

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

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise   | 4.64       | 4.64       | 4.64        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Mobile Home Park      | 4.64       | 4.64       | 4.64        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Single Family Housing | 4.64       | 4.64       | 4.64        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |

**4.4 Fleet Mix**

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise   | 0.499513 | 0.059064 | 0.241958 | 0.122022 | 0.028212 | 0.005599 | 0.008026 | 0.003485 | 0.000777 | 0.000451 | 0.027060 | 0.000621 | 0.003211 |
| Mobile Home Park      | 0.499513 | 0.059064 | 0.241958 | 0.122022 | 0.028212 | 0.005599 | 0.008026 | 0.003485 | 0.000777 | 0.000451 | 0.027060 | 0.000621 | 0.003211 |
| Single Family Housing | 0.499513 | 0.059064 | 0.241958 | 0.122022 | 0.028212 | 0.005599 | 0.008026 | 0.003485 | 0.000777 | 0.000451 | 0.027060 | 0.000621 | 0.003211 |

**5.0 Energy Detail**

Historical Energy Use: Y

**5.1 Mitigation Measures Energy**

| Category                | ROG     | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
|                         | tons/yr |         |        |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Electricity Mitigated   |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| Electricity Unmitigated |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| NaturalGas Mitigated    | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |
| NaturalGas Unmitigated  | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |

**5.2 Energy by Land Use - NaturalGas**

Unmitigated

| Land Use              | 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               |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
|                       | kBTU/yr        | tons/yr       |                |               |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Apartments Low Rise   | 7.55638e+007   | 0.4075        | 3.4819         | 1.4816        | 0.0222        |               | 0.2815        | 0.2815        |                | 0.2815        | 0.2815        | 0.0000        | 4,032.3747         | 4,032.3747         | 0.0773        | 0.0739        | 4,056.3371         |
| Mobile Home Park      | 7.78145e+006   | 0.0420        | 0.3586         | 0.1526        | 2.2900e-003   |               | 0.0290        | 0.0290        |                | 0.0290        | 0.0290        | 0.0000        | 415.2480           | 415.2480           | 7.9600e-003   | 7.6100e-003   | 417.7157           |
| Single Family Housing | 1.65986e+008   | 0.8950        | 7.6484         | 3.2546        | 0.0488        |               | 0.6184        | 0.6184        |                | 0.6184        | 0.6184        | 0.0000        | 8,857.6633         | 8,857.6633         | 0.1698        | 0.1624        | 8,910.3000         |
| <b>Total</b>          |                | <b>1.3444</b> | <b>11.4888</b> | <b>4.8889</b> | <b>0.0733</b> |               | <b>0.9289</b> | <b>0.9289</b> |                | <b>0.9289</b> | <b>0.9289</b> | <b>0.0000</b> | <b>13,305.2861</b> | <b>13,305.2861</b> | <b>0.2550</b> | <b>0.2439</b> | <b>13,384.3527</b> |

Mitigated

| Land Use              | 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       |
|-----------------------|----------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-------------|------------|
|                       | kBTU/yr        | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |             |            |
| Apartments Low Rise   | 7.55638e+007   | 0.4075  | 3.4819 | 1.4816 | 0.0222      |               | 0.2815       | 0.2815     |                | 0.2815        | 0.2815      | 0.0000   | 4,032.3747 | 4,032.3747 | 0.0773      | 0.0739      | 4,056.3371 |
| Mobile Home Park      | 7.78145e+006   | 0.0420  | 0.3586 | 0.1526 | 2.2900e-003 |               | 0.0290       | 0.0290     |                | 0.0290        | 0.0290      | 0.0000   | 415.2480   | 415.2480   | 7.9600e-003 | 7.6100e-003 | 417.7157   |
| Single Family Housing | 1.65986e+008   | 0.8950  | 7.6484 | 3.2546 | 0.0488      |               | 0.6184       | 0.6184     |                | 0.6184        | 0.6184      | 0.0000   | 8,857.6633 | 8,857.6633 | 0.1698      | 0.1624      | 8,910.3000 |





**Larkspur General Plan - Existing - Marin County, Annual**

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

|                   |                |               |                |               |  |               |               |  |               |               |                 |                 |                 |               |               |                 |
|-------------------|----------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Consumer Products | 29.0306        |               |                |               |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Hearth            | 24.1523        | 0.4080        | 26.6811        | 0.0430        |  | 3.6577        | 3.6577        |  | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping       | 1.4305         | 0.5434        | 46.9784        | 2.4700e-003   |  | 0.2583        | 0.2583        |  | 0.2583        | 0.2583        | 0.0000          | 76.4842         | 76.4842         | 0.0746        | 0.0000        | 78.3487         |
| <b>Total</b>      | <b>60.7660</b> | <b>0.9513</b> | <b>73.6595</b> | <b>0.0455</b> |  | <b>3.9160</b> | <b>3.9160</b> |  | <b>3.9160</b> | <b>3.9160</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0776</b> | <b>0.0315</b> | <b>568.0055</b> |

**Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | tons/yr        |               |                |               |               |               |               |                |               |               | MT/yr           |                 |                 |               |               |                 |
| Architectural Coating | 6.1526         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Consumer Products     | 29.0306        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Hearth                | 24.1523        | 0.4080        | 26.6811        | 0.0430        |               | 3.6577        | 3.6577        |                | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping           | 1.4305         | 0.5434        | 46.9784        | 2.4700e-003   |               | 0.2583        | 0.2583        |                | 0.2583        | 0.2583        | 0.0000          | 76.4842         | 76.4842         | 0.0746        | 0.0000        | 78.3487         |
| <b>Total</b>          | <b>60.7660</b> | <b>0.9513</b> | <b>73.6595</b> | <b>0.0455</b> |               | <b>3.9160</b> | <b>3.9160</b> |                | <b>3.9160</b> | <b>3.9160</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0776</b> | <b>0.0315</b> | <b>568.0055</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4     | N2O    | CO2e     |
|-------------|-----------|---------|--------|----------|
| Category    | MT/yr     |         |        |          |
| Mitigated   | 542.0112  | 13.4348 | 0.3218 | 973.7757 |
| Unmitigated | 542.0112  | 13.4348 | 0.3218 | 973.7757 |

**7.2 Water by Land Use**

**Unmitigated**

|                       | Indoor/Outdoor Use | Total CO2       | CH4            | N2O           | CO2e            |
|-----------------------|--------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal               | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335  | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387  | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747  | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                    | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

**Mitigated**

**Larkspur General Plan - Existing - Marin County, Annual**

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

| Indoor/Outdoor Use    | Total CO2         | CH4             | N2O            | CO2e          |                 |
|-----------------------|-------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal              | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335 | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387 | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747 | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                   | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

|             | Total CO2  | CH4     | N2O    | CO2e       |
|-------------|------------|---------|--------|------------|
|             | MT/yr      |         |        |            |
| Mitigated   | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |
| Unmitigated | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |

**8.2 Waste by Land Use**

Unmitigated

| Land Use              | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use              | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

Mitigated

| Land Use              | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use              | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

**9.0 Operational Offroad**

**Larkspur General Plan - Existing - Marin County, Annual**

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

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

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**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses             | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise   | 3,027.00 | Dwelling Unit | 189.19      | 3,027,000.00       | 8657       |
| Mobile Home Park      | 315.00   | Dwelling Unit | 39.68       | 378,000.00         | 901        |
| Single Family Housing | 2,964.00 | Dwelling Unit | 962.34      | 5,335,200.00       | 8477       |

**1.2 Other Project Characteristics**

|                          |        |                          |       |                           |       |
|--------------------------|--------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban  | Wind Speed (m/s)         | 2.2   | Precipitation Freq (Days) | 69    |
| Climate Zone             | 5      |                          |       | Operational Year          | 2040  |
| Utility Company          | MCE    |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 289.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr)  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - Assume Marin Clean Energy
- Land Use - Based on 6,306 dwelling units (48%MF, 47%SF, 5%MH)
- Construction Phase - no construction
- Off-road Equipment - no construction
- Vehicle Trips - Based on traffic data
- Vehicle Emission Factors - Emfac2021
- Woodstoves - No woodstoves
- Consumer Products - 78% of CalEEMod default for 2008 (
- Energy Use - Assume historical conditions
- Fleet Mix - Emfac2021 default

| Table Name           | Column Name | Default Value | New Value   |
|----------------------|-------------|---------------|-------------|
| tblConstructionPhase | NumDays     | 6,000.00      | 0.00        |
| tblConsumerProducts  | ROG_EF      | 2.14E-05      | 1.67E-05    |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT2        | 0.19          | 0.26        |
| tblFleetMix          | LDT2        | 0.19          | 0.26        |
| tblFleetMix          | LDT2        | 0.19          | 0.26        |
| tblFleetMix          | LHD1        | 0.02          | 0.03        |
| tblFleetMix          | LHD1        | 0.02          | 0.03        |
| tblFleetMix          | LHD1        | 0.02          | 0.03        |
| tblFleetMix          | LHD2        | 6.2570e-003   | 7.3400e-003 |
| tblFleetMix          | LHD2        | 6.2570e-003   | 7.3400e-003 |
| tblFleetMix          | LHD2        | 6.2570e-003   | 7.3400e-003 |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MCY         | 0.03          | 0.03        |
| tblFleetMix          | MDV         | 0.13          | 0.15        |
| tblFleetMix          | MDV         | 0.13          | 0.15        |
| tblFleetMix          | MDV         | 0.13          | 0.15        |
| tblFleetMix          | MH          | 2.7300e-003   | 2.3330e-003 |

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|                     |                            |             |             |
|---------------------|----------------------------|-------------|-------------|
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblGrading          | AcresOfGrading             | 0.00        | 9,000.00    |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00        | 0.00        |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00        | 0.00        |
| tblVehicleEF        | HHD                        | 0.03        | 0.14        |
| tblVehicleEF        | HHD                        | 0.07        | 0.06        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 6.23        | 4.38        |
| tblVehicleEF        | HHD                        | 0.53        | 0.60        |
| tblVehicleEF        | HHD                        | 0.02        | 1.8300e-003 |
| tblVehicleEF        | HHD                        | 820.06      | 579.33      |
| tblVehicleEF        | HHD                        | 1,101.03    | 1,127.94    |
| tblVehicleEF        | HHD                        | 0.14        | 0.02        |
| tblVehicleEF        | HHD                        | 0.13        | 0.09        |
| tblVehicleEF        | HHD                        | 0.18        | 0.18        |
| tblVehicleEF        | HHD                        | 3.5000e-005 | 1.0000e-006 |
| tblVehicleEF        | HHD                        | 5.12        | 3.27        |
| tblVehicleEF        | HHD                        | 2.44        | 1.16        |
| tblVehicleEF        | HHD                        | 2.59        | 2.20        |
| tblVehicleEF        | HHD                        | 2.0080e-003 | 1.4160e-003 |
| tblVehicleEF        | HHD                        | 0.06        | 0.08        |
| tblVehicleEF        | HHD                        | 0.04        | 0.04        |
| tblVehicleEF        | HHD                        | 0.02        | 0.02        |
| tblVehicleEF        | HHD                        | 2.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 1.9210e-003 | 1.3490e-003 |
| tblVehicleEF        | HHD                        | 0.03        | 0.03        |
| tblVehicleEF        | HHD                        | 8.8660e-003 | 8.7900e-003 |
| tblVehicleEF        | HHD                        | 0.02        | 0.02        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF        | HHD                        | 2.0700e-004 | 3.0000e-006 |
| tblVehicleEF        | HHD                        | 0.41        | 0.27        |
| tblVehicleEF        | HHD                        | 3.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 0.02        | 0.01        |
| tblVehicleEF        | HHD                        | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF        | HHD                        | 5.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 7.5590e-003 | 4.9180e-003 |
| tblVehicleEF        | HHD                        | 9.8760e-003 | 9.9980e-003 |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF        | HHD                        | 2.0700e-004 | 3.0000e-006 |
| tblVehicleEF        | HHD                        | 0.48        | 0.43        |
| tblVehicleEF        | HHD                        | 3.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 0.10        | 0.08        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | HHD  | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF | HHD  | 5.0000e-006 | 0.00        |
| tblVehicleEF | LDA  | 6.0800e-004 | 8.5600e-004 |
| tblVehicleEF | LDA  | 0.02        | 0.03        |
| tblVehicleEF | LDA  | 0.33        | 0.37        |
| tblVehicleEF | LDA  | 1.48        | 1.60        |
| tblVehicleEF | LDA  | 202.44      | 198.91      |
| tblVehicleEF | LDA  | 41.35       | 50.66       |
| tblVehicleEF | LDA  | 2.9670e-003 | 2.7230e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.02        | 0.02        |
| tblVehicleEF | LDA  | 0.11        | 0.15        |
| tblVehicleEF | LDA  | 0.04        | 6.2430e-003 |
| tblVehicleEF | LDA  | 5.5600e-004 | 4.6400e-004 |
| tblVehicleEF | LDA  | 7.6400e-004 | 8.5800e-004 |
| tblVehicleEF | LDA  | 0.02        | 2.1850e-003 |
| tblVehicleEF | LDA  | 5.1200e-004 | 4.2600e-004 |
| tblVehicleEF | LDA  | 7.0200e-004 | 7.8800e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.19        |
| tblVehicleEF | LDA  | 0.04        | 0.04        |
| tblVehicleEF | LDA  | 0.01        | 0.00        |
| tblVehicleEF | LDA  | 1.8560e-003 | 2.6790e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.14        |
| tblVehicleEF | LDA  | 0.07        | 0.13        |
| tblVehicleEF | LDA  | 1.7950e-003 | 1.9660e-003 |
| tblVehicleEF | LDA  | 3.6600e-004 | 5.0100e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.19        |
| tblVehicleEF | LDA  | 0.04        | 0.04        |
| tblVehicleEF | LDA  | 0.01        | 0.00        |
| tblVehicleEF | LDA  | 2.6920e-003 | 3.9070e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.14        |
| tblVehicleEF | LDA  | 0.08        | 0.14        |
| tblVehicleEF | LDT1 | 7.0400e-004 | 1.2220e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.04        |
| tblVehicleEF | LDT1 | 0.36        | 0.49        |
| tblVehicleEF | LDT1 | 1.61        | 2.09        |
| tblVehicleEF | LDT1 | 243.88      | 264.21      |
| tblVehicleEF | LDT1 | 50.48       | 66.88       |
| tblVehicleEF | LDT1 | 2.9560e-003 | 3.4830e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.13        | 0.20        |
| tblVehicleEF | LDT1 | 0.04        | 7.7750e-003 |
| tblVehicleEF | LDT1 | 6.3000e-004 | 6.2900e-004 |
| tblVehicleEF | LDT1 | 8.9100e-004 | 1.1810e-003 |
| tblVehicleEF | LDT1 | 0.02        | 2.7210e-003 |
| tblVehicleEF | LDT1 | 5.8000e-004 | 5.7900e-004 |
| tblVehicleEF | LDT1 | 8.1900e-004 | 1.0860e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 2.1550e-003 | 4.1220e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.19        |
| tblVehicleEF | LDT1 | 2.1610e-003 | 2.6120e-003 |
| tblVehicleEF | LDT1 | 4.4700e-004 | 6.6100e-004 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |

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|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 3.1430e-003 | 6.0150e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.20        |
| tblVehicleEF | LDT2 | 8.9800e-004 | 1.2700e-003 |
| tblVehicleEF | LDT2 | 0.03        | 0.04        |
| tblVehicleEF | LDT2 | 0.41        | 0.50        |
| tblVehicleEF | LDT2 | 2.02        | 2.23        |
| tblVehicleEF | LDT2 | 244.33      | 278.34      |
| tblVehicleEF | LDT2 | 50.82       | 69.65       |
| tblVehicleEF | LDT2 | 3.1970e-003 | 3.5350e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.03        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.21        |
| tblVehicleEF | LDT2 | 0.04        | 7.6610e-003 |
| tblVehicleEF | LDT2 | 6.4100e-004 | 5.7600e-004 |
| tblVehicleEF | LDT2 | 8.2800e-004 | 1.0030e-003 |
| tblVehicleEF | LDT2 | 0.02        | 2.6810e-003 |
| tblVehicleEF | LDT2 | 5.9100e-004 | 5.3000e-004 |
| tblVehicleEF | LDT2 | 7.6100e-004 | 9.2300e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 2.9490e-003 | 4.1040e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.11        | 0.19        |
| tblVehicleEF | LDT2 | 2.1660e-003 | 2.7510e-003 |
| tblVehicleEF | LDT2 | 4.5000e-004 | 6.8900e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 4.2600e-003 | 5.9750e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.12        | 0.20        |
| tblVehicleEF | LHD1 | 3.4380e-003 | 2.8490e-003 |
| tblVehicleEF | LHD1 | 3.9830e-003 | 1.7250e-003 |
| tblVehicleEF | LHD1 | 6.2630e-003 | 0.01        |
| tblVehicleEF | LHD1 | 0.17        | 0.14        |
| tblVehicleEF | LHD1 | 0.38        | 0.30        |
| tblVehicleEF | LHD1 | 0.76        | 1.50        |
| tblVehicleEF | LHD1 | 7.68        | 5.81        |
| tblVehicleEF | LHD1 | 639.38      | 456.22      |
| tblVehicleEF | LHD1 | 8.73        | 11.22       |
| tblVehicleEF | LHD1 | 7.1300e-004 | 4.5600e-004 |
| tblVehicleEF | LHD1 | 0.04        | 0.03        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.04        | 0.02        |
| tblVehicleEF | LHD1 | 0.12        | 0.12        |
| tblVehicleEF | LHD1 | 0.17        | 0.21        |
| tblVehicleEF | LHD1 | 9.9400e-004 | 5.5300e-004 |
| tblVehicleEF | LHD1 | 0.08        | 0.06        |
| tblVehicleEF | LHD1 | 9.9970e-003 | 9.0130e-003 |
| tblVehicleEF | LHD1 | 5.5420e-003 | 6.1170e-003 |
| tblVehicleEF | LHD1 | 1.8100e-004 | 6.3000e-005 |
| tblVehicleEF | LHD1 | 9.5100e-004 | 5.2900e-004 |
| tblVehicleEF | LHD1 | 0.03        | 0.02        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 2.4990e-003 | 2.2530e-003 |
| tblVehicleEF | LHD1 | 5.2610e-003 | 5.8330e-003 |
| tblVehicleEF | LHD1 | 1.6600e-004 | 5.8000e-005 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.07        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD1 | 7.4000e-005 | 5.6000e-005 |
| tblVehicleEF | LHD1 | 6.2280e-003 | 4.4470e-003 |
| tblVehicleEF | LHD1 | 8.6000e-005 | 1.1100e-004 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.08        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD2 | 2.1220e-003 | 1.9680e-003 |
| tblVehicleEF | LHD2 | 4.8480e-003 | 2.6770e-003 |
| tblVehicleEF | LHD2 | 3.1470e-003 | 6.1430e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.47        | 0.25        |
| tblVehicleEF | LHD2 | 0.43        | 1.03        |
| tblVehicleEF | LHD2 | 12.09       | 13.09       |
| tblVehicleEF | LHD2 | 627.34      | 493.03      |
| tblVehicleEF | LHD2 | 5.66        | 7.43        |
| tblVehicleEF | LHD2 | 1.5690e-003 | 1.6900e-003 |
| tblVehicleEF | LHD2 | 0.06        | 0.05        |
| tblVehicleEF | LHD2 | 9.1310e-003 | 0.01        |
| tblVehicleEF | LHD2 | 0.06        | 0.06        |
| tblVehicleEF | LHD2 | 0.16        | 0.23        |
| tblVehicleEF | LHD2 | 0.09        | 0.13        |
| tblVehicleEF | LHD2 | 1.5060e-003 | 1.4960e-003 |
| tblVehicleEF | LHD2 | 0.09        | 0.08        |
| tblVehicleEF | LHD2 | 0.01        | 9.8840e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.0000e-004 | 3.3000e-005 |
| tblVehicleEF | LHD2 | 1.4400e-003 | 1.4310e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.03        |
| tblVehicleEF | LHD2 | 2.7200e-003 | 2.4710e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 9.2000e-005 | 3.1000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.09        | 0.05        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | LHD2 | 1.1500e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 6.0480e-003 | 4.7370e-003 |
| tblVehicleEF | LHD2 | 5.6000e-005 | 7.3000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.11        | 0.06        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | MCY  | 0.33        | 0.13        |
| tblVehicleEF | MCY  | 0.25        | 0.15        |
| tblVehicleEF | MCY  | 18.40       | 9.95        |
| tblVehicleEF | MCY  | 9.47        | 8.05        |
| tblVehicleEF | MCY  | 216.76      | 185.24      |
| tblVehicleEF | MCY  | 58.75       | 40.28       |
| tblVehicleEF | MCY  | 0.07        | 0.04        |
| tblVehicleEF | MCY  | 0.02        | 5.3700e-003 |
| tblVehicleEF | MCY  | 1.17        | 0.49        |
| tblVehicleEF | MCY  | 0.27        | 0.09        |
| tblVehicleEF | MCY  | 0.01        | 0.01        |
| tblVehicleEF | MCY  | 2.3190e-003 | 2.0580e-003 |
| tblVehicleEF | MCY  | 2.9230e-003 | 3.4860e-003 |
| tblVehicleEF | MCY  | 5.0400e-003 | 4.2000e-003 |
| tblVehicleEF | MCY  | 2.1620e-003 | 1.9190e-003 |
| tblVehicleEF | MCY  | 2.7280e-003 | 3.2550e-003 |
| tblVehicleEF | MCY  | 0.77        | 3.63        |
| tblVehicleEF | MCY  | 0.63        | 3.57        |
| tblVehicleEF | MCY  | 0.45        | 0.00        |
| tblVehicleEF | MCY  | 2.21        | 0.81        |
| tblVehicleEF | MCY  | 0.41        | 3.86        |
| tblVehicleEF | MCY  | 1.89        | 1.05        |
| tblVehicleEF | MCY  | 2.1450e-003 | 1.8310e-003 |
| tblVehicleEF | MCY  | 5.8100e-004 | 3.9800e-004 |
| tblVehicleEF | MCY  | 0.77        | 0.09        |
| tblVehicleEF | MCY  | 0.63        | 3.57        |
| tblVehicleEF | MCY  | 0.45        | 0.00        |
| tblVehicleEF | MCY  | 2.77        | 1.00        |
| tblVehicleEF | MCY  | 0.41        | 3.86        |
| tblVehicleEF | MCY  | 2.06        | 1.14        |
| tblVehicleEF | MDV  | 9.2200e-004 | 1.3200e-003 |
| tblVehicleEF | MDV  | 0.03        | 0.05        |
| tblVehicleEF | MDV  | 0.40        | 0.50        |
| tblVehicleEF | MDV  | 2.02        | 2.21        |
| tblVehicleEF | MDV  | 295.46      | 331.03      |
| tblVehicleEF | MDV  | 59.89       | 82.14       |
| tblVehicleEF | MDV  | 4.4140e-003 | 4.1000e-003 |
| tblVehicleEF | MDV  | 0.02        | 0.03        |
| tblVehicleEF | MDV  | 0.02        | 0.03        |
| tblVehicleEF | MDV  | 0.14        | 0.22        |
| tblVehicleEF | MDV  | 0.04        | 7.7070e-003 |
| tblVehicleEF | MDV  | 6.4000e-004 | 5.6900e-004 |
| tblVehicleEF | MDV  | 8.3600e-004 | 9.8400e-004 |
| tblVehicleEF | MDV  | 0.02        | 2.6970e-003 |
| tblVehicleEF | MDV  | 5.9000e-004 | 5.2400e-004 |
| tblVehicleEF | MDV  | 7.6900e-004 | 9.0500e-004 |
| tblVehicleEF | MDV  | 0.04        | 0.25        |
| tblVehicleEF | MDV  | 0.07        | 0.05        |
| tblVehicleEF | MDV  | 0.05        | 0.00        |
| tblVehicleEF | MDV  | 3.1150e-003 | 4.3960e-003 |
| tblVehicleEF | MDV  | 0.04        | 0.19        |
| tblVehicleEF | MDV  | 0.12        | 0.20        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 2.6240e-003 | 3.2710e-003 |
| tblVehicleEF | MDV | 5.3100e-004 | 8.1200e-004 |
| tblVehicleEF | MDV | 0.04        | 0.25        |
| tblVehicleEF | MDV | 0.07        | 0.05        |
| tblVehicleEF | MDV | 0.05        | 0.00        |
| tblVehicleEF | MDV | 4.4890e-003 | 6.3960e-003 |
| tblVehicleEF | MDV | 0.04        | 0.19        |
| tblVehicleEF | MDV | 0.13        | 0.21        |
| tblVehicleEF | MH  | 3.8260e-003 | 4.1790e-003 |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.19        | 0.21        |
| tblVehicleEF | MH  | 1.44        | 1.49        |
| tblVehicleEF | MH  | 1,243.50    | 1,615.83    |
| tblVehicleEF | MH  | 13.48       | 17.26       |
| tblVehicleEF | MH  | 0.05        | 0.07        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.90        | 1.12        |
| tblVehicleEF | MH  | 0.21        | 0.25        |
| tblVehicleEF | MH  | 0.13        | 0.04        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 2.0700e-004 | 2.0800e-004 |
| tblVehicleEF | MH  | 0.06        | 0.02        |
| tblVehicleEF | MH  | 3.3130e-003 | 3.3830e-003 |
| tblVehicleEF | MH  | 9.9190e-003 | 0.01        |
| tblVehicleEF | MH  | 1.9100e-004 | 1.9200e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.07        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 1.3300e-004 | 1.7100e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.08        |
| tblVehicleEF | MHD | 5.4540e-003 | 0.02        |
| tblVehicleEF | MHD | 1.0210e-003 | 8.8140e-003 |
| tblVehicleEF | MHD | 0.01        | 6.3910e-003 |
| tblVehicleEF | MHD | 0.58        | 0.50        |
| tblVehicleEF | MHD | 0.14        | 0.09        |
| tblVehicleEF | MHD | 1.10        | 0.60        |
| tblVehicleEF | MHD | 83.31       | 99.48       |
| tblVehicleEF | MHD | 949.91      | 696.01      |
| tblVehicleEF | MHD | 11.15       | 6.34        |
| tblVehicleEF | MHD | 0.01        | 0.02        |
| tblVehicleEF | MHD | 0.11        | 0.08        |
| tblVehicleEF | MHD | 0.01        | 4.7120e-003 |
| tblVehicleEF | MHD | 0.45        | 0.50        |
| tblVehicleEF | MHD | 1.29        | 0.25        |
| tblVehicleEF | MHD | 1.54        | 0.71        |
| tblVehicleEF | MHD | 1.3600e-004 | 1.8900e-004 |
| tblVehicleEF | MHD | 0.13        | 0.04        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 6.2610e-003 | 2.0990e-003 |
| tblVehicleEF | MHD  | 1.5800e-004 | 7.9000e-005 |
| tblVehicleEF | MHD  | 1.3000e-004 | 1.8000e-004 |
| tblVehicleEF | MHD  | 0.06        | 0.01        |
| tblVehicleEF | MHD  | 5.9800e-003 | 2.0010e-003 |
| tblVehicleEF | MHD  | 1.4500e-004 | 7.3000e-005 |
| tblVehicleEF | MHD  | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD  | 0.03        | 0.02        |
| tblVehicleEF | MHD  | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.01        | 5.9010e-003 |
| tblVehicleEF | MHD  | 0.02        | 0.03        |
| tblVehicleEF | MHD  | 0.06        | 0.03        |
| tblVehicleEF | MHD  | 7.9100e-004 | 8.9500e-004 |
| tblVehicleEF | MHD  | 9.1040e-003 | 6.5700e-003 |
| tblVehicleEF | MHD  | 1.1000e-004 | 6.3000e-005 |
| tblVehicleEF | MHD  | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD  | 0.04        | 0.04        |
| tblVehicleEF | MHD  | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.01        | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 0.03        |
| tblVehicleEF | MHD  | 0.06        | 0.04        |
| tblVehicleEF | OBUS | 8.3520e-003 | 7.1630e-003 |
| tblVehicleEF | OBUS | 2.3930e-003 | 6.0370e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.57        | 0.53        |
| tblVehicleEF | OBUS | 0.25        | 0.29        |
| tblVehicleEF | OBUS | 1.96        | 1.93        |
| tblVehicleEF | OBUS | 68.10       | 67.86       |
| tblVehicleEF | OBUS | 1,173.93    | 1,126.50    |
| tblVehicleEF | OBUS | 16.48       | 16.45       |
| tblVehicleEF | OBUS | 9.0320e-003 | 9.2340e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.11        |
| tblVehicleEF | OBUS | 0.02        | 0.01        |
| tblVehicleEF | OBUS | 0.31        | 0.18        |
| tblVehicleEF | OBUS | 1.11        | 0.70        |
| tblVehicleEF | OBUS | 0.81        | 0.51        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.7300e-004 |
| tblVehicleEF | OBUS | 0.13        | 0.05        |
| tblVehicleEF | OBUS | 6.7660e-003 | 0.01        |
| tblVehicleEF | OBUS | 2.1400e-004 | 1.6500e-004 |
| tblVehicleEF | OBUS | 9.9000e-005 | 1.6600e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.02        |
| tblVehicleEF | OBUS | 6.4510e-003 | 0.01        |
| tblVehicleEF | OBUS | 1.9700e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.04        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.10        | 0.10        |
| tblVehicleEF | OBUS | 6.4900e-004 | 6.4400e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 0.07        | 0.06        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.04        |
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.11        | 0.11        |
| tblVehicleEF | SBUS | 0.10        | 0.10        |
| tblVehicleEF | SBUS | 1.5470e-003 | 0.05        |
| tblVehicleEF | SBUS | 8.5390e-003 | 6.8060e-003 |
| tblVehicleEF | SBUS | 4.03        | 2.33        |
| tblVehicleEF | SBUS | 0.15        | 0.26        |
| tblVehicleEF | SBUS | 1.10        | 0.78        |
| tblVehicleEF | SBUS | 293.45      | 149.88      |
| tblVehicleEF | SBUS | 798.43      | 664.07      |
| tblVehicleEF | SBUS | 6.40        | 5.05        |
| tblVehicleEF | SBUS | 0.04        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.06        |
| tblVehicleEF | SBUS | 8.5440e-003 | 8.2110e-003 |
| tblVehicleEF | SBUS | 1.29        | 0.48        |
| tblVehicleEF | SBUS | 0.93        | 0.28        |
| tblVehicleEF | SBUS | 1.83        | 0.48        |
| tblVehicleEF | SBUS | 3.7000e-004 | 1.8100e-004 |
| tblVehicleEF | SBUS | 0.74        | 0.04        |
| tblVehicleEF | SBUS | 0.01        | 9.8940e-003 |
| tblVehicleEF | SBUS | 5.8320e-003 | 2.1420e-003 |
| tblVehicleEF | SBUS | 1.1100e-004 | 7.1000e-005 |
| tblVehicleEF | SBUS | 3.5400e-004 | 1.7200e-004 |
| tblVehicleEF | SBUS | 0.32        | 0.01        |
| tblVehicleEF | SBUS | 2.5830e-003 | 2.4730e-003 |
| tblVehicleEF | SBUS | 5.5550e-003 | 2.0300e-003 |
| tblVehicleEF | SBUS | 1.0200e-004 | 6.5000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |
| tblVehicleEF | SBUS | 0.44        | 0.26        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.01        | 8.8610e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | SBUS | 2.8110e-003 | 1.3410e-003 |
| tblVehicleEF | SBUS | 7.6800e-003 | 6.2230e-003 |
| tblVehicleEF | SBUS | 6.3000e-005 | 5.0000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |
| tblVehicleEF | SBUS | 0.63        | 0.42        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.02        | 0.06        |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | UBUS | 0.83        | 0.04        |
| tblVehicleEF | UBUS | 0.03        | 8.2710e-003 |
| tblVehicleEF | UBUS | 6.41        | 0.48        |
| tblVehicleEF | UBUS | 2.41        | 1.81        |
| tblVehicleEF | UBUS | 1,627.81    | 243.15      |
| tblVehicleEF | UBUS | 21.97       | 10.39       |
| tblVehicleEF | UBUS | 0.14        | 8.5720e-003 |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.47        | 9.2940e-003 |
| tblVehicleEF | UBUS | 0.25        | 0.08        |

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

|                 |                   |             |             |
|-----------------|-------------------|-------------|-------------|
| tblVehicleEF    | UBUS              | 0.11        | 2.45        |
| tblVehicleEF    | UBUS              | 0.02        | 1.11        |
| tblVehicleEF    | UBUS              | 3.5750e-003 | 4.0100e-004 |
| tblVehicleEF    | UBUS              | 2.8000e-004 | 4.4000e-005 |
| tblVehicleEF    | UBUS              | 0.05        | 0.86        |
| tblVehicleEF    | UBUS              | 5.0890e-003 | 0.28        |
| tblVehicleEF    | UBUS              | 3.3750e-003 | 3.7300e-004 |
| tblVehicleEF    | UBUS              | 2.5800e-004 | 4.0000e-005 |
| tblVehicleEF    | UBUS              | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS              | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS              | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS              | 0.02        | 2.7500e-003 |
| tblVehicleEF    | UBUS              | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS              | 0.14        | 0.03        |
| tblVehicleEF    | UBUS              | 0.01        | 2.2470e-003 |
| tblVehicleEF    | UBUS              | 2.1700e-004 | 1.0300e-004 |
| tblVehicleEF    | UBUS              | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS              | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS              | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS              | 0.86        | 0.05        |
| tblVehicleEF    | UBUS              | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS              | 0.15        | 0.03        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP             | 11.00       | 0.00        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.43        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.43        |
| tblVehicleTrips | HO_TL             | 5.70        | 4.43        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.43        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.43        |
| tblVehicleTrips | HS_TL             | 4.80        | 4.43        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.43        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.43        |
| tblVehicleTrips | HW_TL             | 10.80       | 4.43        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PB_TP             | 3.00        | 0.00        |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | PR_TP             | 86.00       | 100.00      |
| tblVehicleTrips | ST_TR             | 8.14        | 7.36        |
| tblVehicleTrips | ST_TR             | 4.61        | 7.36        |
| tblVehicleTrips | ST_TR             | 9.54        | 7.36        |
| tblVehicleTrips | SU_TR             | 6.28        | 5.68        |
| tblVehicleTrips | SU_TR             | 4.24        | 5.68        |
| tblVehicleTrips | SU_TR             | 8.55        | 5.68        |
| tblVehicleTrips | WD_TR             | 7.32        | 6.62        |
| tblVehicleTrips | WD_TR             | 5.00        | 6.62        |
| tblVehicleTrips | WD_TR             | 9.44        | 6.62        |
| tblWoodstoves   | WoodstoveWoodMass | 582.40      | 0.00        |
| tblWoodstoves   | WoodstoveWoodMass | 582.40      | 0.00        |
| tblWoodstoves   | WoodstoveWoodMass | 956.80      | 0.00        |

**2.0 Emissions Summary**

**2.1 Overall Construction**

**Unmitigated Construction**

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

|         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| 2024    | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

**Mitigated Construction**

|         | ROG     | NOx    | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e   |
|---------|---------|--------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|--------|
| Year    | tons/yr |        |        |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |        |
| 2024    | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |
| Maximum | 0.0000  | 0.0000 | 0.0000 | 0.0000 | 0.0000        | 0.0000       | 0.0000     | 0.0000         | 0.0000        | 0.0000      | 0.0000   | 0.0000    | 0.0000    | 0.0000 | 0.0000 | 0.0000 |

|                   | ROG        | NOx      | CO   | SO2  | 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 |
| Quarter           | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) |      |               |              | Maximum Mitigated ROG + NOX (tons/quarter) |                |               |             |          |           |           |      |      |      |
|                   |            | Highest  |  |      |               |              |  |                |               |             |          |           |           |      |      |      |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG            | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total    | Bio- CO2          | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|----------------|-------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | tons/yr        |                |                 |               |                |               |                |                |               |                | MT/yr             |                    |                    |                |               |                    |
| Area         | 58.3371        | 0.9460         | 73.2981         | 0.0455        |                | 3.9173        | 3.9173         |                | 3.9173        | 3.9173         | 325.0992          | 231.5720           | 556.6712           | 0.0758         | 0.0315        | 567.9610           |
| Energy       | 1.3444         | 11.4888        | 4.8889          | 0.0733        |                | 0.9289        | 0.9289         |                | 0.9289        | 0.9289         | 0.0000            | 17,673.7217        | 17,673.7217        | 0.7522         | 0.3042        | 17,783.1737        |
| Mobile       | 16.7408        | 7.1431         | 83.0623         | 0.2020        | 22.5612        | 0.0862        | 22.6474        | 5.6262         | 0.0804        | 5.7066         | 0.0000            | 18,628.1256        | 18,628.1256        | 0.9341         | 0.8405        | 18,901.9597        |
| Waste        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000         | 1,034.7789        | 0.0000             | 1,034.7789         | 61.1537        | 0.0000        | 2,563.6210         |
| Water        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000         | 130.3473          | 411.6638           | 542.0112           | 13.4348        | 0.3218        | 973.7757           |
| <b>Total</b> | <b>76.4224</b> | <b>19.5779</b> | <b>161.2493</b> | <b>0.3209</b> | <b>22.5612</b> | <b>4.9324</b> | <b>27.4936</b> | <b>5.6262</b>  | <b>4.9266</b> | <b>10.5528</b> | <b>1,490.2254</b> | <b>36,945.0832</b> | <b>38,435.3086</b> | <b>76.3505</b> | <b>1.4981</b> | <b>40,790.4910</b> |

**Mitigated Operational**

|          | ROG     | NOx     | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|----------|---------|---------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category | tons/yr |         |         |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Area     | 58.3371 | 0.9460  | 73.2981 | 0.0455 |               | 3.9173       | 3.9173     |                | 3.9173        | 3.9173      | 325.0992 | 231.5720    | 556.6712    | 0.0758 | 0.0315 | 567.9610    |
| Energy   | 1.3444  | 11.4888 | 4.8889  | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 17,673.7217 | 17,673.7217 | 0.7522 | 0.3042 | 17,783.1737 |
| Mobile   | 16.7408 | 7.1431  | 83.0623 | 0.2020 | 22.5612       | 0.0862       | 22.6474    | 5.6262         | 0.0804        | 5.7066      | 0.0000   | 18,628.1256 | 18,628.1256 | 0.9341 | 0.8405 | 18,901.9597 |



Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

|              |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction On-Site**

|               | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category      | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Fugitive Dust | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Off-Road      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**Mitigated Construction Off-Site**

|              | ROG           | NOx           | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2     | Total CO2     | CH4           | N2O           | CO2e          |
|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Category     | tons/yr       |               |               |               |               |               |               |                |               |               | MT/yr         |               |               |               |               |               |
| Hauling      | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Vendor       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| Worker       | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        | 0.0000        |
| <b>Total</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b>  | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> | <b>0.0000</b> |

**4.0 Operational Detail - Mobile**

**4.1 Mitigation Measures Mobile**

|             | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category    | tons/yr |        |         |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 16.7408 | 7.1431 | 83.0623 | 0.2020 | 22.5612       | 0.0862       | 22.6474    | 5.6262         | 0.0804        | 5.7066      | 0.0000   | 18,628.1256 | 18,628.1256 | 0.9341 | 0.8405 | 18,901.9597 |
| Unmitigated | 16.7408 | 7.1431 | 83.0623 | 0.2020 | 22.5612       | 0.0862       | 22.6474    | 5.6262         | 0.0804        | 5.7066      | 0.0000   | 18,628.1256 | 18,628.1256 | 0.9341 | 0.8405 | 18,901.9597 |

**4.2 Trip Summary Information**

| Land Use              | Average Daily Trip Rate |                  |                  | Unmitigated Annual VMT | Mitigated Annual VMT |
|-----------------------|-------------------------|------------------|------------------|------------------------|----------------------|
|                       | Weekday                 | Saturday         | Sunday           |                        |                      |
| Apartments Low Rise   | 20,038.74               | 22,278.72        | 17193.36         | 32,173,409             | 32,173,409           |
| Mobile Home Park      | 2,085.30                | 2,318.40         | 1789.20          | 3,348,075              | 3,348,075            |
| Single Family Housing | 19,621.68               | 21,915.04        | 16935.52         | 31,503,794             | 31,503,794           |
| <b>Total</b>          | <b>41,745.72</b>        | <b>46,412.16</b> | <b>35,818.08</b> | <b>67,025,278</b>      | <b>67,025,278</b>    |

**4.3 Trip Type Information**



Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise   | 4.43       | 4.43       | 4.43        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Mobile Home Park      | 4.43       | 4.43       | 4.43        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Single Family Housing | 4.43       | 4.43       | 4.43        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |

4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise   | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |
| Mobile Home Park      | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |
| Single Family Housing | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

| Category                | ROG     | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
|                         | tons/yr |         |        |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Electricity Mitigated   |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| Electricity Unmitigated |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| NaturalGas Mitigated    | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |
| NaturalGas Unmitigated  | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |

5.2 Energy by Land Use - NaturalGas

Unmitigated

| Land Use              | 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               |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
|                       | kBTU/yr        | tons/yr       |                |               |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Apartments Low Rise   | 7.55638e+007   | 0.4075        | 3.4819         | 1.4816        | 0.0222        |               | 0.2815        | 0.2815        |                | 0.2815        | 0.2815        | 0.0000        | 4,032.3747         | 4,032.3747         | 0.0773        | 0.0739        | 4,056.3371         |
| Mobile Home Park      | 7.78145e+006   | 0.0420        | 0.3586         | 0.1526        | 2.2900e-003   |               | 0.0290        | 0.0290        |                | 0.0290        | 0.0290        | 0.0000        | 415.2480           | 415.2480           | 7.9600e-003   | 7.6100e-003   | 417.7157           |
| Single Family Housing | 1.65986e+008   | 0.8950        | 7.6484         | 3.2546        | 0.0488        |               | 0.6184        | 0.6184        |                | 0.6184        | 0.6184        | 0.0000        | 8,857.6633         | 8,857.6633         | 0.1698        | 0.1624        | 8,910.3000         |
| <b>Total</b>          |                | <b>1.3444</b> | <b>11.4888</b> | <b>4.8889</b> | <b>0.0733</b> |               | <b>0.9289</b> | <b>0.9289</b> |                | <b>0.9289</b> | <b>0.9289</b> | <b>0.0000</b> | <b>13,305.2861</b> | <b>13,305.2861</b> | <b>0.2550</b> | <b>0.2439</b> | <b>13,384.3527</b> |

Mitigated

| Land Use              | 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       |
|-----------------------|----------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|-------------|-------------|------------|
|                       | kBTU/yr        | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |             |             |            |
| Apartments Low Rise   | 7.55638e+007   | 0.4075  | 3.4819 | 1.4816 | 0.0222      |               | 0.2815       | 0.2815     |                | 0.2815        | 0.2815      | 0.0000   | 4,032.3747 | 4,032.3747 | 0.0773      | 0.0739      | 4,056.3371 |
| Mobile Home Park      | 7.78145e+006   | 0.0420  | 0.3586 | 0.1526 | 2.2900e-003 |               | 0.0290       | 0.0290     |                | 0.0290        | 0.0290      | 0.0000   | 415.2480   | 415.2480   | 7.9600e-003 | 7.6100e-003 | 417.7157   |
| Single Family Housing | 1.65986e+008   | 0.8950  | 7.6484 | 3.2546 | 0.0488      |               | 0.6184       | 0.6184     |                | 0.6184        | 0.6184      | 0.0000   | 8,857.6633 | 8,857.6633 | 0.1698      | 0.1624      | 8,910.3000 |



Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

|                   |                |               |                |               |  |               |               |  |               |               |                 |                 |                 |               |               |                 |
|-------------------|----------------|---------------|----------------|---------------|--|---------------|---------------|--|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| Consumer Products | 26.6379        |               |                |               |  | 0.0000        | 0.0000        |  | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        |                 |
| Hearth            | 24.1523        | 0.4080        | 26.6811        | 0.0430        |  | 3.6577        | 3.6577        |  | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping       | 1.3943         | 0.5381        | 46.6171        | 2.4700e-003   |  | 0.2597        | 0.2597        |  | 0.2597        | 0.2597        | 0.0000          | 76.4842         | 76.4842         | 0.0728        | 0.0000        | 78.3042         |
| <b>Total</b>      | <b>58.3371</b> | <b>0.9460</b> | <b>73.2981</b> | <b>0.0455</b> |  | <b>3.9173</b> | <b>3.9173</b> |  | <b>3.9173</b> | <b>3.9173</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0758</b> | <b>0.0315</b> | <b>567.9610</b> |

**Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | tons/yr        |               |                |               |               |               |               |                |               |               | MT/yr           |                 |                 |               |               |                 |
| Architectural Coating | 6.1526         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Consumer Products     | 26.6379        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Hearth                | 24.1523        | 0.4080        | 26.6811        | 0.0430        |               | 3.6577        | 3.6577        |                | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping           | 1.3943         | 0.5381        | 46.6171        | 2.4700e-003   |               | 0.2597        | 0.2597        |                | 0.2597        | 0.2597        | 0.0000          | 76.4842         | 76.4842         | 0.0728        | 0.0000        | 78.3042         |
| <b>Total</b>          | <b>58.3371</b> | <b>0.9460</b> | <b>73.2981</b> | <b>0.0455</b> |               | <b>3.9173</b> | <b>3.9173</b> |                | <b>3.9173</b> | <b>3.9173</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0758</b> | <b>0.0315</b> | <b>567.9610</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|             | Total CO2 | CH4     | N2O    | CO2e     |
|-------------|-----------|---------|--------|----------|
| Category    | MT/yr     |         |        |          |
| Mitigated   | 542.0112  | 13.4348 | 0.3218 | 973.7757 |
| Unmitigated | 542.0112  | 13.4348 | 0.3218 | 973.7757 |

**7.2 Water by Land Use**

**Unmitigated**

|                       | Indoor/Outdoor Use | Total CO2       | CH4            | N2O           | CO2e            |
|-----------------------|--------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal               | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335  | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387  | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747  | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                    | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

**Mitigated**

Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

| Indoor/Outdoor Use    | Total CO2         | CH4             | N2O            | CO2e          |                 |
|-----------------------|-------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal              | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335 | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387 | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747 | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                   | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

|             | Total CO2  | CH4     | N2O    | CO2e       |
|-------------|------------|---------|--------|------------|
|             | MT/yr      |         |        |            |
| Mitigated   | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |
| Unmitigated | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |

**8.2 Waste by Land Use**

Unmitigated

| Land Use              | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
|                       | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

Mitigated

| Land Use              | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
|                       | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

**9.0 Operational Offroad**

## Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses             | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|-----------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise   | 3,027.00 | Dwelling Unit | 189.19      | 3,027,000.00       | 8657       |
| Mobile Home Park      | 315.00   | Dwelling Unit | 39.68       | 378,000.00         | 901        |
| Single Family Housing | 2,964.00 | Dwelling Unit | 962.34      | 5,335,200.00       | 8477       |

**1.2 Other Project Characteristics**

|                          |        |                          |       |                           |       |
|--------------------------|--------|--------------------------|-------|---------------------------|-------|
| Urbanization             | Urban  | Wind Speed (m/s)         | 2.2   | Precipitation Freq (Days) | 69    |
| Climate Zone             | 5      |                          |       | Operational Year          | 2040  |
| Utility Company          | MCE    |                          |       |                           |       |
| CO2 Intensity (lb/MW hr) | 289.98 | CH4 Intensity (lb/MW hr) | 0.033 | N2O Intensity (lb/MW hr)  | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics - Assume Marin Clean Energy
- Land Use - Based on 6,306 dwelling units (48%MF, 47%SF, 5%MH)
- Construction Phase - no construction
- Off-road Equipment - no construction
- Vehicle Trips - Based on traffic data for No Project
- Vehicle Emission Factors - Emfac2021
- Woodstoves - No woodstoves
- Consumer Products - 78% of CalEEMod default for 2008 (
- Energy Use - Assume historical conditions
- Fleet Mix - Emfac2021 default

| Table Name           | Column Name | Default Value | New Value   |
|----------------------|-------------|---------------|-------------|
| tblConstructionPhase | NumDays     | 6,000.00      | 0.00        |
| tblConsumerProducts  | ROG_EF      | 2.14E-05      | 1.67E-05    |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | HHD         | 3.7750e-003   | 4.5910e-003 |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDA         | 0.55          | 0.47        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT1        | 0.06          | 0.03        |
| tblFleetMix          | LDT2        | 0.19          | 0.26        |

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|                     |                            |             |             |
|---------------------|----------------------------|-------------|-------------|
| tblFleetMix         | LDT2                       | 0.19        | 0.26        |
| tblFleetMix         | LDT2                       | 0.19        | 0.26        |
| tblFleetMix         | LHD1                       | 0.02        | 0.03        |
| tblFleetMix         | LHD1                       | 0.02        | 0.03        |
| tblFleetMix         | LHD1                       | 0.02        | 0.03        |
| tblFleetMix         | LHD2                       | 6.2570e-003 | 7.3400e-003 |
| tblFleetMix         | LHD2                       | 6.2570e-003 | 7.3400e-003 |
| tblFleetMix         | LHD2                       | 6.2570e-003 | 7.3400e-003 |
| tblFleetMix         | MCY                        | 0.03        | 0.03        |
| tblFleetMix         | MCY                        | 0.03        | 0.03        |
| tblFleetMix         | MCY                        | 0.03        | 0.03        |
| tblFleetMix         | MDV                        | 0.13        | 0.15        |
| tblFleetMix         | MDV                        | 0.13        | 0.15        |
| tblFleetMix         | MDV                        | 0.13        | 0.15        |
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2730e-003 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2800e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3500e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.5000e-004 |
| tblGrading          | AcresOfGrading             | 0.00        | 9,000.00    |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00        | 0.00        |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00        | 0.00        |
| tblVehicleEF        | HHD                        | 0.03        | 0.14        |
| tblVehicleEF        | HHD                        | 0.07        | 0.06        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 6.23        | 4.38        |
| tblVehicleEF        | HHD                        | 0.53        | 0.60        |
| tblVehicleEF        | HHD                        | 0.02        | 1.8300e-003 |
| tblVehicleEF        | HHD                        | 820.06      | 579.33      |
| tblVehicleEF        | HHD                        | 1,101.03    | 1,127.94    |
| tblVehicleEF        | HHD                        | 0.14        | 0.02        |
| tblVehicleEF        | HHD                        | 0.13        | 0.09        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.18        | 0.18        |
| tblVehicleEF | HHD | 3.5000e-005 | 1.0000e-006 |
| tblVehicleEF | HHD | 5.12        | 3.27        |
| tblVehicleEF | HHD | 2.44        | 1.16        |
| tblVehicleEF | HHD | 2.59        | 2.20        |
| tblVehicleEF | HHD | 2.0080e-003 | 1.4160e-003 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 2.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 1.9210e-003 | 1.3490e-003 |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8660e-003 | 8.7900e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF | HHD | 2.0700e-004 | 3.0000e-006 |
| tblVehicleEF | HHD | 0.41        | 0.27        |
| tblVehicleEF | HHD | 3.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 0.02        | 0.01        |
| tblVehicleEF | HHD | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF | HHD | 5.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 7.5590e-003 | 4.9180e-003 |
| tblVehicleEF | HHD | 9.8760e-003 | 9.9980e-003 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF | HHD | 2.0700e-004 | 3.0000e-006 |
| tblVehicleEF | HHD | 0.48        | 0.43        |
| tblVehicleEF | HHD | 3.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 0.10        | 0.08        |
| tblVehicleEF | HHD | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF | HHD | 5.0000e-006 | 0.00        |
| tblVehicleEF | LDA | 6.0800e-004 | 8.5600e-004 |
| tblVehicleEF | LDA | 0.02        | 0.03        |
| tblVehicleEF | LDA | 0.33        | 0.37        |
| tblVehicleEF | LDA | 1.48        | 1.60        |
| tblVehicleEF | LDA | 202.44      | 198.91      |
| tblVehicleEF | LDA | 41.35       | 50.66       |
| tblVehicleEF | LDA | 2.9670e-003 | 2.7230e-003 |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.11        | 0.15        |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDA  | 0.04        | 6.2430e-003 |
| tblVehicleEF | LDA  | 5.5600e-004 | 4.6400e-004 |
| tblVehicleEF | LDA  | 7.6400e-004 | 8.5800e-004 |
| tblVehicleEF | LDA  | 0.02        | 2.1850e-003 |
| tblVehicleEF | LDA  | 5.1200e-004 | 4.2600e-004 |
| tblVehicleEF | LDA  | 7.0200e-004 | 7.8800e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.19        |
| tblVehicleEF | LDA  | 0.04        | 0.04        |
| tblVehicleEF | LDA  | 0.01        | 0.00        |
| tblVehicleEF | LDA  | 1.8560e-003 | 2.6790e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.14        |
| tblVehicleEF | LDA  | 0.07        | 0.13        |
| tblVehicleEF | LDA  | 1.7950e-003 | 1.9660e-003 |
| tblVehicleEF | LDA  | 3.6600e-004 | 5.0100e-004 |
| tblVehicleEF | LDA  | 0.01        | 0.19        |
| tblVehicleEF | LDA  | 0.04        | 0.04        |
| tblVehicleEF | LDA  | 0.01        | 0.00        |
| tblVehicleEF | LDA  | 2.6920e-003 | 3.9070e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.14        |
| tblVehicleEF | LDA  | 0.08        | 0.14        |
| tblVehicleEF | LDT1 | 7.0400e-004 | 1.2220e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.04        |
| tblVehicleEF | LDT1 | 0.36        | 0.49        |
| tblVehicleEF | LDT1 | 1.61        | 2.09        |
| tblVehicleEF | LDT1 | 243.88      | 264.21      |
| tblVehicleEF | LDT1 | 50.48       | 66.88       |
| tblVehicleEF | LDT1 | 2.9560e-003 | 3.4830e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.13        | 0.20        |
| tblVehicleEF | LDT1 | 0.04        | 7.7750e-003 |
| tblVehicleEF | LDT1 | 6.3000e-004 | 6.2900e-004 |
| tblVehicleEF | LDT1 | 8.9100e-004 | 1.1810e-003 |
| tblVehicleEF | LDT1 | 0.02        | 2.7210e-003 |
| tblVehicleEF | LDT1 | 5.8000e-004 | 5.7900e-004 |
| tblVehicleEF | LDT1 | 8.1900e-004 | 1.0860e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 2.1550e-003 | 4.1220e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.19        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 2.1610e-003 | 2.6120e-003 |
| tblVehicleEF | LDT1 | 4.4700e-004 | 6.6100e-004 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 3.1430e-003 | 6.0150e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.20        |
| tblVehicleEF | LDT2 | 8.9800e-004 | 1.2700e-003 |
| tblVehicleEF | LDT2 | 0.03        | 0.04        |
| tblVehicleEF | LDT2 | 0.41        | 0.50        |
| tblVehicleEF | LDT2 | 2.02        | 2.23        |
| tblVehicleEF | LDT2 | 244.33      | 278.34      |
| tblVehicleEF | LDT2 | 50.82       | 69.65       |
| tblVehicleEF | LDT2 | 3.1970e-003 | 3.5350e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.03        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.21        |
| tblVehicleEF | LDT2 | 0.04        | 7.6610e-003 |
| tblVehicleEF | LDT2 | 6.4100e-004 | 5.7600e-004 |
| tblVehicleEF | LDT2 | 8.2800e-004 | 1.0030e-003 |
| tblVehicleEF | LDT2 | 0.02        | 2.6810e-003 |
| tblVehicleEF | LDT2 | 5.9100e-004 | 5.3000e-004 |
| tblVehicleEF | LDT2 | 7.6100e-004 | 9.2300e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 2.9490e-003 | 4.1040e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.11        | 0.19        |
| tblVehicleEF | LDT2 | 2.1660e-003 | 2.7510e-003 |
| tblVehicleEF | LDT2 | 4.5000e-004 | 6.8900e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 4.2600e-003 | 5.9750e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.12        | 0.20        |
| tblVehicleEF | LHD1 | 3.4380e-003 | 2.8490e-003 |
| tblVehicleEF | LHD1 | 3.9830e-003 | 1.7250e-003 |
| tblVehicleEF | LHD1 | 6.2630e-003 | 0.01        |
| tblVehicleEF | LHD1 | 0.17        | 0.14        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.38        | 0.30        |
| tblVehicleEF | LHD1 | 0.76        | 1.50        |
| tblVehicleEF | LHD1 | 7.68        | 5.81        |
| tblVehicleEF | LHD1 | 639.38      | 456.22      |
| tblVehicleEF | LHD1 | 8.73        | 11.22       |
| tblVehicleEF | LHD1 | 7.1300e-004 | 4.5600e-004 |
| tblVehicleEF | LHD1 | 0.04        | 0.03        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.04        | 0.02        |
| tblVehicleEF | LHD1 | 0.12        | 0.12        |
| tblVehicleEF | LHD1 | 0.17        | 0.21        |
| tblVehicleEF | LHD1 | 9.9400e-004 | 5.5300e-004 |
| tblVehicleEF | LHD1 | 0.08        | 0.06        |
| tblVehicleEF | LHD1 | 9.9970e-003 | 9.0130e-003 |
| tblVehicleEF | LHD1 | 5.5420e-003 | 6.1170e-003 |
| tblVehicleEF | LHD1 | 1.8100e-004 | 6.3000e-005 |
| tblVehicleEF | LHD1 | 9.5100e-004 | 5.2900e-004 |
| tblVehicleEF | LHD1 | 0.03        | 0.02        |
| tblVehicleEF | LHD1 | 2.4990e-003 | 2.2530e-003 |
| tblVehicleEF | LHD1 | 5.2610e-003 | 5.8330e-003 |
| tblVehicleEF | LHD1 | 1.6600e-004 | 5.8000e-005 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.07        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD1 | 7.4000e-005 | 5.6000e-005 |
| tblVehicleEF | LHD1 | 6.2280e-003 | 4.4470e-003 |
| tblVehicleEF | LHD1 | 8.6000e-005 | 1.1100e-004 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.08        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD2 | 2.1220e-003 | 1.9680e-003 |
| tblVehicleEF | LHD2 | 4.8480e-003 | 2.6770e-003 |
| tblVehicleEF | LHD2 | 3.1470e-003 | 6.1430e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.47        | 0.25        |
| tblVehicleEF | LHD2 | 0.43        | 1.03        |
| tblVehicleEF | LHD2 | 12.09       | 13.09       |
| tblVehicleEF | LHD2 | 627.34      | 493.03      |
| tblVehicleEF | LHD2 | 5.66        | 7.43        |
| tblVehicleEF | LHD2 | 1.5690e-003 | 1.6900e-003 |
| tblVehicleEF | LHD2 | 0.06        | 0.05        |
| tblVehicleEF | LHD2 | 9.1310e-003 | 0.01        |
| tblVehicleEF | LHD2 | 0.06        | 0.06        |
| tblVehicleEF | LHD2 | 0.16        | 0.23        |
| tblVehicleEF | LHD2 | 0.09        | 0.13        |
| tblVehicleEF | LHD2 | 1.5060e-003 | 1.4960e-003 |
| tblVehicleEF | LHD2 | 0.09        | 0.08        |
| tblVehicleEF | LHD2 | 0.01        | 9.8840e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.0000e-004 | 3.3000e-005 |
| tblVehicleEF | LHD2 | 1.4400e-003 | 1.4310e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.03        |
| tblVehicleEF | LHD2 | 2.7200e-003 | 2.4710e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 9.2000e-005 | 3.1000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.09        | 0.05        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | LHD2 | 1.1500e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 6.0480e-003 | 4.7370e-003 |
| tblVehicleEF | LHD2 | 5.6000e-005 | 7.3000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.11        | 0.06        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | MCY  | 0.33        | 0.13        |
| tblVehicleEF | MCY  | 0.25        | 0.15        |
| tblVehicleEF | MCY  | 18.40       | 9.95        |
| tblVehicleEF | MCY  | 9.47        | 8.05        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 216.76      | 185.24      |
| tblVehicleEF | MCY | 58.75       | 40.28       |
| tblVehicleEF | MCY | 0.07        | 0.04        |
| tblVehicleEF | MCY | 0.02        | 5.3700e-003 |
| tblVehicleEF | MCY | 1.17        | 0.49        |
| tblVehicleEF | MCY | 0.27        | 0.09        |
| tblVehicleEF | MCY | 0.01        | 0.01        |
| tblVehicleEF | MCY | 2.3190e-003 | 2.0580e-003 |
| tblVehicleEF | MCY | 2.9230e-003 | 3.4860e-003 |
| tblVehicleEF | MCY | 5.0400e-003 | 4.2000e-003 |
| tblVehicleEF | MCY | 2.1620e-003 | 1.9190e-003 |
| tblVehicleEF | MCY | 2.7280e-003 | 3.2550e-003 |
| tblVehicleEF | MCY | 0.77        | 3.63        |
| tblVehicleEF | MCY | 0.63        | 3.57        |
| tblVehicleEF | MCY | 0.45        | 0.00        |
| tblVehicleEF | MCY | 2.21        | 0.81        |
| tblVehicleEF | MCY | 0.41        | 3.86        |
| tblVehicleEF | MCY | 1.89        | 1.05        |
| tblVehicleEF | MCY | 2.1450e-003 | 1.8310e-003 |
| tblVehicleEF | MCY | 5.8100e-004 | 3.9800e-004 |
| tblVehicleEF | MCY | 0.77        | 0.09        |
| tblVehicleEF | MCY | 0.63        | 3.57        |
| tblVehicleEF | MCY | 0.45        | 0.00        |
| tblVehicleEF | MCY | 2.77        | 1.00        |
| tblVehicleEF | MCY | 0.41        | 3.86        |
| tblVehicleEF | MCY | 2.06        | 1.14        |
| tblVehicleEF | MDV | 9.2200e-004 | 1.3200e-003 |
| tblVehicleEF | MDV | 0.03        | 0.05        |
| tblVehicleEF | MDV | 0.40        | 0.50        |
| tblVehicleEF | MDV | 2.02        | 2.21        |
| tblVehicleEF | MDV | 295.46      | 331.03      |
| tblVehicleEF | MDV | 59.89       | 82.14       |
| tblVehicleEF | MDV | 4.4140e-003 | 4.1000e-003 |
| tblVehicleEF | MDV | 0.02        | 0.03        |
| tblVehicleEF | MDV | 0.02        | 0.03        |
| tblVehicleEF | MDV | 0.14        | 0.22        |
| tblVehicleEF | MDV | 0.04        | 7.7070e-003 |
| tblVehicleEF | MDV | 6.4000e-004 | 5.6900e-004 |
| tblVehicleEF | MDV | 8.3600e-004 | 9.8400e-004 |
| tblVehicleEF | MDV | 0.02        | 2.6970e-003 |
| tblVehicleEF | MDV | 5.9000e-004 | 5.2400e-004 |
| tblVehicleEF | MDV | 7.6900e-004 | 9.0500e-004 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 0.04        | 0.25        |
| tblVehicleEF | MDV | 0.07        | 0.05        |
| tblVehicleEF | MDV | 0.05        | 0.00        |
| tblVehicleEF | MDV | 3.1150e-003 | 4.3960e-003 |
| tblVehicleEF | MDV | 0.04        | 0.19        |
| tblVehicleEF | MDV | 0.12        | 0.20        |
| tblVehicleEF | MDV | 2.6240e-003 | 3.2710e-003 |
| tblVehicleEF | MDV | 5.3100e-004 | 8.1200e-004 |
| tblVehicleEF | MDV | 0.04        | 0.25        |
| tblVehicleEF | MDV | 0.07        | 0.05        |
| tblVehicleEF | MDV | 0.05        | 0.00        |
| tblVehicleEF | MDV | 4.4890e-003 | 6.3960e-003 |
| tblVehicleEF | MDV | 0.04        | 0.19        |
| tblVehicleEF | MDV | 0.13        | 0.21        |
| tblVehicleEF | MH  | 3.8260e-003 | 4.1790e-003 |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.19        | 0.21        |
| tblVehicleEF | MH  | 1.44        | 1.49        |
| tblVehicleEF | MH  | 1,243.50    | 1,615.83    |
| tblVehicleEF | MH  | 13.48       | 17.26       |
| tblVehicleEF | MH  | 0.05        | 0.07        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.90        | 1.12        |
| tblVehicleEF | MH  | 0.21        | 0.25        |
| tblVehicleEF | MH  | 0.13        | 0.04        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 2.0700e-004 | 2.0800e-004 |
| tblVehicleEF | MH  | 0.06        | 0.02        |
| tblVehicleEF | MH  | 3.3130e-003 | 3.3830e-003 |
| tblVehicleEF | MH  | 9.9190e-003 | 0.01        |
| tblVehicleEF | MH  | 1.9100e-004 | 1.9200e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.03        | 0.04        |
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.07        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 1.3300e-004 | 1.7100e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.08        |
| tblVehicleEF | MHD | 5.4540e-003 | 0.02        |
| tblVehicleEF | MHD | 1.0210e-003 | 8.8140e-003 |
| tblVehicleEF | MHD | 0.01        | 6.3910e-003 |
| tblVehicleEF | MHD | 0.58        | 0.50        |
| tblVehicleEF | MHD | 0.14        | 0.09        |
| tblVehicleEF | MHD | 1.10        | 0.60        |
| tblVehicleEF | MHD | 83.31       | 99.48       |
| tblVehicleEF | MHD | 949.91      | 696.01      |
| tblVehicleEF | MHD | 11.15       | 6.34        |
| tblVehicleEF | MHD | 0.01        | 0.02        |
| tblVehicleEF | MHD | 0.11        | 0.08        |
| tblVehicleEF | MHD | 0.01        | 4.7120e-003 |
| tblVehicleEF | MHD | 0.45        | 0.50        |
| tblVehicleEF | MHD | 1.29        | 0.25        |
| tblVehicleEF | MHD | 1.54        | 0.71        |
| tblVehicleEF | MHD | 1.3600e-004 | 1.8900e-004 |
| tblVehicleEF | MHD | 0.13        | 0.04        |
| tblVehicleEF | MHD | 6.2610e-003 | 2.0990e-003 |
| tblVehicleEF | MHD | 1.5800e-004 | 7.9000e-005 |
| tblVehicleEF | MHD | 1.3000e-004 | 1.8000e-004 |
| tblVehicleEF | MHD | 0.06        | 0.01        |
| tblVehicleEF | MHD | 5.9800e-003 | 2.0010e-003 |
| tblVehicleEF | MHD | 1.4500e-004 | 7.3000e-005 |
| tblVehicleEF | MHD | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD | 0.03        | 0.02        |
| tblVehicleEF | MHD | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD | 0.01        | 5.9010e-003 |
| tblVehicleEF | MHD | 0.02        | 0.03        |
| tblVehicleEF | MHD | 0.06        | 0.03        |
| tblVehicleEF | MHD | 7.9100e-004 | 8.9500e-004 |
| tblVehicleEF | MHD | 9.1040e-003 | 6.5700e-003 |
| tblVehicleEF | MHD | 1.1000e-004 | 6.3000e-005 |
| tblVehicleEF | MHD | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD | 0.04        | 0.04        |
| tblVehicleEF | MHD | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD | 0.01        | 0.02        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 0.02        | 0.03        |
| tblVehicleEF | MHD  | 0.06        | 0.04        |
| tblVehicleEF | OBUS | 8.3520e-003 | 7.1630e-003 |
| tblVehicleEF | OBUS | 2.3930e-003 | 6.0370e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.57        | 0.53        |
| tblVehicleEF | OBUS | 0.25        | 0.29        |
| tblVehicleEF | OBUS | 1.96        | 1.93        |
| tblVehicleEF | OBUS | 68.10       | 67.86       |
| tblVehicleEF | OBUS | 1,173.93    | 1,126.50    |
| tblVehicleEF | OBUS | 16.48       | 16.45       |
| tblVehicleEF | OBUS | 9.0320e-003 | 9.2340e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.11        |
| tblVehicleEF | OBUS | 0.02        | 0.01        |
| tblVehicleEF | OBUS | 0.31        | 0.18        |
| tblVehicleEF | OBUS | 1.11        | 0.70        |
| tblVehicleEF | OBUS | 0.81        | 0.51        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.7300e-004 |
| tblVehicleEF | OBUS | 0.13        | 0.05        |
| tblVehicleEF | OBUS | 6.7660e-003 | 0.01        |
| tblVehicleEF | OBUS | 2.1400e-004 | 1.6500e-004 |
| tblVehicleEF | OBUS | 9.9000e-005 | 1.6600e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.02        |
| tblVehicleEF | OBUS | 6.4510e-003 | 0.01        |
| tblVehicleEF | OBUS | 1.9700e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.04        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.10        | 0.10        |
| tblVehicleEF | OBUS | 6.4900e-004 | 6.4400e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.07        | 0.06        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.04        |
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.11        | 0.11        |
| tblVehicleEF | SBUS | 0.10        | 0.10        |



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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 1.5470e-003 | 0.05        |
| tblVehicleEF | SBUS | 8.5390e-003 | 6.8060e-003 |
| tblVehicleEF | SBUS | 4.03        | 2.33        |
| tblVehicleEF | SBUS | 0.15        | 0.26        |
| tblVehicleEF | SBUS | 1.10        | 0.78        |
| tblVehicleEF | SBUS | 293.45      | 149.88      |
| tblVehicleEF | SBUS | 798.43      | 664.07      |
| tblVehicleEF | SBUS | 6.40        | 5.05        |
| tblVehicleEF | SBUS | 0.04        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.06        |
| tblVehicleEF | SBUS | 8.5440e-003 | 8.2110e-003 |
| tblVehicleEF | SBUS | 1.29        | 0.48        |
| tblVehicleEF | SBUS | 0.93        | 0.28        |
| tblVehicleEF | SBUS | 1.83        | 0.48        |
| tblVehicleEF | SBUS | 3.7000e-004 | 1.8100e-004 |
| tblVehicleEF | SBUS | 0.74        | 0.04        |
| tblVehicleEF | SBUS | 0.01        | 9.8940e-003 |
| tblVehicleEF | SBUS | 5.8320e-003 | 2.1420e-003 |
| tblVehicleEF | SBUS | 1.1100e-004 | 7.1000e-005 |
| tblVehicleEF | SBUS | 3.5400e-004 | 1.7200e-004 |
| tblVehicleEF | SBUS | 0.32        | 0.01        |
| tblVehicleEF | SBUS | 2.5830e-003 | 2.4730e-003 |
| tblVehicleEF | SBUS | 5.5550e-003 | 2.0300e-003 |
| tblVehicleEF | SBUS | 1.0200e-004 | 6.5000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |
| tblVehicleEF | SBUS | 0.44        | 0.26        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.01        | 8.8610e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | SBUS | 2.8110e-003 | 1.3410e-003 |
| tblVehicleEF | SBUS | 7.6800e-003 | 6.2230e-003 |
| tblVehicleEF | SBUS | 6.3000e-005 | 5.0000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |
| tblVehicleEF | SBUS | 0.63        | 0.42        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.02        | 0.06        |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | UBUS | 0.83        | 0.04        |

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|                 |       |             |             |
|-----------------|-------|-------------|-------------|
| tblVehicleEF    | UBUS  | 0.03        | 8.2710e-003 |
| tblVehicleEF    | UBUS  | 6.41        | 0.48        |
| tblVehicleEF    | UBUS  | 2.41        | 1.81        |
| tblVehicleEF    | UBUS  | 1,627.81    | 243.15      |
| tblVehicleEF    | UBUS  | 21.97       | 10.39       |
| tblVehicleEF    | UBUS  | 0.14        | 8.5720e-003 |
| tblVehicleEF    | UBUS  | 0.02        | 0.01        |
| tblVehicleEF    | UBUS  | 0.47        | 9.2940e-003 |
| tblVehicleEF    | UBUS  | 0.25        | 0.08        |
| tblVehicleEF    | UBUS  | 0.11        | 2.45        |
| tblVehicleEF    | UBUS  | 0.02        | 1.11        |
| tblVehicleEF    | UBUS  | 3.5750e-003 | 4.0100e-004 |
| tblVehicleEF    | UBUS  | 2.8000e-004 | 4.4000e-005 |
| tblVehicleEF    | UBUS  | 0.05        | 0.86        |
| tblVehicleEF    | UBUS  | 5.0890e-003 | 0.28        |
| tblVehicleEF    | UBUS  | 3.3750e-003 | 3.7300e-004 |
| tblVehicleEF    | UBUS  | 2.5800e-004 | 4.0000e-005 |
| tblVehicleEF    | UBUS  | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS  | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS  | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS  | 0.02        | 2.7500e-003 |
| tblVehicleEF    | UBUS  | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS  | 0.14        | 0.03        |
| tblVehicleEF    | UBUS  | 0.01        | 2.2470e-003 |
| tblVehicleEF    | UBUS  | 2.1700e-004 | 1.0300e-004 |
| tblVehicleEF    | UBUS  | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS  | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS  | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS  | 0.86        | 0.05        |
| tblVehicleEF    | UBUS  | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS  | 0.15        | 0.03        |
| tblVehicleTrips | DV_TP | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP | 11.00       | 0.00        |
| tblVehicleTrips | DV_TP | 11.00       | 0.00        |
| tblVehicleTrips | HO_TL | 5.70        | 4.17        |
| tblVehicleTrips | HO_TL | 5.70        | 4.17        |
| tblVehicleTrips | HO_TL | 5.70        | 4.17        |
| tblVehicleTrips | HS_TL | 4.80        | 4.17        |
| tblVehicleTrips | HS_TL | 4.80        | 4.17        |
| tblVehicleTrips | HS_TL | 4.80        | 4.17        |
| tblVehicleTrips | HW_TL | 10.80       | 4.17        |
| tblVehicleTrips | HW_TL | 10.80       | 4.17        |



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|         |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Maximum | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|

|                   | ROG  | NOx  | CO   | SO2  | 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 |

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
|         |            | Highest  |  |  |

2.2 Overall Operational

Unmitigated Operational

|              | ROG            | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2          | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|-------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | tons/yr        |                |                 |               |                |               |                |                |               |               | MT/yr             |                    |                    |                |               |                    |
| Area         | 58.3371        | 0.9460         | 73.2981         | 0.0455        |                | 3.9173        | 3.9173         |                | 3.9173        | 3.9173        | 325.0992          | 231.5720           | 556.6712           | 0.0758         | 0.0315        | 567.9610           |
| Energy       | 1.3444         | 11.4888        | 4.8889          | 0.0733        |                | 0.9289        | 0.9289         |                | 0.9289        | 0.9289        | 0.0000            | 17,673.7217        | 17,673.7217        | 0.7522         | 0.3042        | 17,783.1737        |
| Mobile       | 15.8548        | 6.6108         | 76.4343         | 0.1818        | 20.2428        | 0.0783        | 20.3211        | 5.0480         | 0.0730        | 5.1210        | 0.0000            | 16,766.7567        | 16,766.7567        | 0.8724         | 0.7758        | 17,019.7534        |
| Waste        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000        | 1,034.7789        | 0.0000             | 1,034.7789         | 61.1537        | 0.0000        | 2,563.6210         |
| Water        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000        | 130.3473          | 411.6638           | 542.0112           | 13.4348        | 0.3218        | 973.7757           |
| <b>Total</b> | <b>75.5363</b> | <b>19.0456</b> | <b>154.6213</b> | <b>0.3007</b> | <b>20.2428</b> | <b>4.9245</b> | <b>25.1673</b> | <b>5.0480</b>  | <b>4.9192</b> | <b>9.9672</b> | <b>1,490.2254</b> | <b>35,083.7142</b> | <b>36,573.9397</b> | <b>76.2888</b> | <b>1.4333</b> | <b>38,908.2847</b> |

Mitigated Operational

|              | ROG            | NOx            | CO              | SO2           | Fugitive PM10  | Exhaust PM10  | PM10 Total     | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2          | NBio- CO2          | Total CO2          | CH4            | N2O           | CO2e               |
|--------------|----------------|----------------|-----------------|---------------|----------------|---------------|----------------|----------------|---------------|---------------|-------------------|--------------------|--------------------|----------------|---------------|--------------------|
| Category     | tons/yr        |                |                 |               |                |               |                |                |               |               | MT/yr             |                    |                    |                |               |                    |
| Area         | 58.3371        | 0.9460         | 73.2981         | 0.0455        |                | 3.9173        | 3.9173         |                | 3.9173        | 3.9173        | 325.0992          | 231.5720           | 556.6712           | 0.0758         | 0.0315        | 567.9610           |
| Energy       | 1.3444         | 11.4888        | 4.8889          | 0.0733        |                | 0.9289        | 0.9289         |                | 0.9289        | 0.9289        | 0.0000            | 17,673.7217        | 17,673.7217        | 0.7522         | 0.3042        | 17,783.1737        |
| Mobile       | 15.8548        | 6.6108         | 76.4343         | 0.1818        | 20.2428        | 0.0783        | 20.3211        | 5.0480         | 0.0730        | 5.1210        | 0.0000            | 16,766.7567        | 16,766.7567        | 0.8724         | 0.7758        | 17,019.7534        |
| Waste        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000        | 1,034.7789        | 0.0000             | 1,034.7789         | 61.1537        | 0.0000        | 2,563.6210         |
| Water        |                |                |                 |               |                | 0.0000        | 0.0000         |                | 0.0000        | 0.0000        | 130.3473          | 411.6638           | 542.0112           | 13.4348        | 0.3218        | 973.7757           |
| <b>Total</b> | <b>75.5363</b> | <b>19.0456</b> | <b>154.6213</b> | <b>0.3007</b> | <b>20.2428</b> | <b>4.9245</b> | <b>25.1673</b> | <b>5.0480</b>  | <b>4.9192</b> | <b>9.9672</b> | <b>1,490.2254</b> | <b>35,083.7142</b> | <b>36,573.9397</b> | <b>76.2888</b> | <b>1.4333</b> | <b>38,908.2847</b> |





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

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

| Category    | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
|             | tons/yr |        |         |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Mitigated   | 15.8548 | 6.6108 | 76.4343 | 0.1818 | 20.2428       | 0.0783       | 20.3211    | 5.0480         | 0.0730        | 5.1210      | 0.0000   | 16,766.7567 | 16,766.7567 | 0.8724 | 0.7758 | 17,019.7534 |
| Unmitigated | 15.8548 | 6.6108 | 76.4343 | 0.1818 | 20.2428       | 0.0783       | 20.3211    | 5.0480         | 0.0730        | 5.1210      | 0.0000   | 16,766.7567 | 16,766.7567 | 0.8724 | 0.7758 | 17,019.7534 |

4.2 Trip Summary Information

| Land Use              | Average Daily Trip Rate |                  |                  | Unmitigated Annual VMT | Mitigated Annual VMT |
|-----------------------|-------------------------|------------------|------------------|------------------------|----------------------|
|                       | Weekday                 | Saturday         | Sunday           |                        |                      |
| Apartments Low Rise   | 19,100.37               | 21,249.54        | 16376.07         | 28,867,358             | 28,867,358           |
| Mobile Home Park      | 1,987.65                | 2,211.30         | 1704.15          | 3,004,036              | 3,004,036            |
| Single Family Housing | 18,702.84               | 20,807.28        | 16035.24         | 28,266,551             | 28,266,551           |
| <b>Total</b>          | <b>39,790.86</b>        | <b>44,268.12</b> | <b>34,115.46</b> | <b>60,137,946</b>      | <b>60,137,946</b>    |

4.3 Trip Type Information

| Land Use              | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|-----------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                       | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise   | 4.17       | 4.17       | 4.17        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Mobile Home Park      | 4.17       | 4.17       | 4.17        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |
| Single Family Housing | 4.17       | 4.17       | 4.17        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |

4.4 Fleet Mix

| Land Use              | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise   | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |
| Mobile Home Park      | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |
| Single Family Housing | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |

5.0 Energy Detail

Historical Energy Use: Y

5.1 Mitigation Measures Energy

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

|                         | ROG     | NOx     | CO     | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2   | Total CO2   | CH4    | N2O    | CO2e        |
|-------------------------|---------|---------|--------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-------------|-------------|--------|--------|-------------|
| Category                | tons/yr |         |        |        |               |              |            |                |               |             | MT/yr    |             |             |        |        |             |
| Electricity Mitigated   |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| Electricity Unmitigated |         |         |        |        |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 4,368.4356  | 4,368.4356  | 0.4971 | 0.0603 | 4,398.8210  |
| NaturalGas Mitigated    | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |
| NaturalGas Unmitigated  | 1.3444  | 11.4888 | 4.8889 | 0.0733 |               | 0.9289       | 0.9289     |                | 0.9289        | 0.9289      | 0.0000   | 13,305.2861 | 13,305.2861 | 0.2550 | 0.2439 | 13,384.3527 |

5.2 Energy by Land Use - NaturalGas  
Unmitigated

|                       | NaturalGas Use | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use              | kBTU/yr        | tons/yr       |                |               |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Apartments Low Rise   | 7.55638e+007   | 0.4075        | 3.4819         | 1.4816        | 0.0222        |               | 0.2815        | 0.2815        |                | 0.2815        | 0.2815        | 0.0000        | 4,032.3747         | 4,032.3747         | 0.0773        | 0.0739        | 4,056.3371         |
| Mobile Home Park      | 7.78145e+006   | 0.0420        | 0.3586         | 0.1526        | 2.2900e-003   |               | 0.0290        | 0.0290        |                | 0.0290        | 0.0290        | 0.0000        | 415.2480           | 415.2480           | 7.9600e-003   | 7.6100e-003   | 417.7157           |
| Single Family Housing | 1.65986e+008   | 0.8950        | 7.6484         | 3.2546        | 0.0488        |               | 0.6184        | 0.6184        |                | 0.6184        | 0.6184        | 0.0000        | 8,857.6633         | 8,857.6633         | 0.1698        | 0.1624        | 8,910.3000         |
| <b>Total</b>          |                | <b>1.3444</b> | <b>11.4888</b> | <b>4.8889</b> | <b>0.0733</b> |               | <b>0.9289</b> | <b>0.9289</b> |                | <b>0.9289</b> | <b>0.9289</b> | <b>0.0000</b> | <b>13,305.2861</b> | <b>13,305.2861</b> | <b>0.2550</b> | <b>0.2439</b> | <b>13,384.3527</b> |

Mitigated

|                       | NaturalGas Use | ROG           | NOx            | CO            | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2          | Total CO2          | CH4           | N2O           | CO2e               |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|--------------------|--------------------|---------------|---------------|--------------------|
| Land Use              | kBTU/yr        | tons/yr       |                |               |               |               |               |               |                |               |               | MT/yr         |                    |                    |               |               |                    |
| Apartments Low Rise   | 7.55638e+007   | 0.4075        | 3.4819         | 1.4816        | 0.0222        |               | 0.2815        | 0.2815        |                | 0.2815        | 0.2815        | 0.0000        | 4,032.3747         | 4,032.3747         | 0.0773        | 0.0739        | 4,056.3371         |
| Mobile Home Park      | 7.78145e+006   | 0.0420        | 0.3586         | 0.1526        | 2.2900e-003   |               | 0.0290        | 0.0290        |                | 0.0290        | 0.0290        | 0.0000        | 415.2480           | 415.2480           | 7.9600e-003   | 7.6100e-003   | 417.7157           |
| Single Family Housing | 1.65986e+008   | 0.8950        | 7.6484         | 3.2546        | 0.0488        |               | 0.6184        | 0.6184        |                | 0.6184        | 0.6184        | 0.0000        | 8,857.6633         | 8,857.6633         | 0.1698        | 0.1624        | 8,910.3000         |
| <b>Total</b>          |                | <b>1.3444</b> | <b>11.4888</b> | <b>4.8889</b> | <b>0.0733</b> |               | <b>0.9289</b> | <b>0.9289</b> |                | <b>0.9289</b> | <b>0.9289</b> | <b>0.0000</b> | <b>13,305.2861</b> | <b>13,305.2861</b> | <b>0.2550</b> | <b>0.2439</b> | <b>13,384.3527</b> |



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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                       | Electricity Use | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kWh/yr          | MT/yr             |               |               |                   |
| Apartments Low Rise   | 1.08506e+007    | 1,427.2068        | 0.1624        | 0.0197        | 1,437.1340        |
| Mobile Home Park      | 1.53317e+006    | 201.6618          | 0.0230        | 2.7800e-003   | 203.0644          |
| Single Family Housing | 2.0828e+007     | 2,739.5671        | 0.3118        | 0.0378        | 2,758.6226        |
| <b>Total</b>          |                 | <b>4,368.4356</b> | <b>0.4971</b> | <b>0.0603</b> | <b>4,398.8210</b> |

**Mitigated**

|                       | Electricity Use | Total CO2         | CH4           | N2O           | CO2e              |
|-----------------------|-----------------|-------------------|---------------|---------------|-------------------|
| Land Use              | kWh/yr          | MT/yr             |               |               |                   |
| Apartments Low Rise   | 1.08506e+007    | 1,427.2068        | 0.1624        | 0.0197        | 1,437.1340        |
| Mobile Home Park      | 1.53317e+006    | 201.6618          | 0.0230        | 2.7800e-003   | 203.0644          |
| Single Family Housing | 2.0828e+007     | 2,739.5671        | 0.3118        | 0.0378        | 2,758.6226        |
| <b>Total</b>          |                 | <b>4,368.4356</b> | <b>0.4971</b> | <b>0.0603</b> | <b>4,398.8210</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

| Category    | ROG     | NOx    | CO      | SO2    | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2 | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|---------|--------|---------|--------|---------------|--------------|------------|----------------|---------------|-------------|----------|-----------|-----------|--------|--------|----------|
|             | tons/yr |        |         |        |               |              |            |                |               |             | MT/yr    |           |           |        |        |          |
| Mitigated   | 58.3371 | 0.9460 | 73.2981 | 0.0455 |               | 3.9173       | 3.9173     |                | 3.9173        | 3.9173      | 325.0992 | 231.5720  | 556.6712  | 0.0758 | 0.0315 | 567.9610 |
| Unmitigated | 58.3371 | 0.9460 | 73.2981 | 0.0455 |               | 3.9173       | 3.9173     |                | 3.9173        | 3.9173      | 325.0992 | 231.5720  | 556.6712  | 0.0758 | 0.0315 | 567.9610 |

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

**6.2 Area by SubCategory**

**Unmitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | tons/yr        |               |                |               |               |               |               |                |               |               | MT/yr           |                 |                 |               |               |                 |
| Architectural Coating | 6.1526         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Consumer Products     | 26.6379        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Hearth                | 24.1523        | 0.4080        | 26.6811        | 0.0430        |               | 3.6577        | 3.6577        |                | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping           | 1.3943         | 0.5381        | 46.6171        | 2.4700e-003   |               | 0.2597        | 0.2597        |                | 0.2597        | 0.2597        | 0.0000          | 76.4842         | 76.4842         | 0.0728        | 0.0000        | 78.3042         |
| <b>Total</b>          | <b>58.3371</b> | <b>0.9460</b> | <b>73.2981</b> | <b>0.0455</b> |               | <b>3.9173</b> | <b>3.9173</b> |                | <b>3.9173</b> | <b>3.9173</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0758</b> | <b>0.0315</b> | <b>567.9610</b> |

**Mitigated**

|                       | ROG            | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2       | Total CO2       | CH4           | N2O           | CO2e            |
|-----------------------|----------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-----------------|-----------------|---------------|---------------|-----------------|
| SubCategory           | tons/yr        |               |                |               |               |               |               |                |               |               | MT/yr           |                 |                 |               |               |                 |
| Architectural Coating | 6.1526         |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Consumer Products     | 26.6379        |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000          | 0.0000          | 0.0000          | 0.0000        | 0.0000        | 0.0000          |
| Hearth                | 24.1523        | 0.4080        | 26.6811        | 0.0430        |               | 3.6577        | 3.6577        |                | 3.6577        | 3.6577        | 325.0992        | 155.0879        | 480.1871        | 2.9700e-003   | 0.0315        | 489.6569        |
| Landscaping           | 1.3943         | 0.5381        | 46.6171        | 2.4700e-003   |               | 0.2597        | 0.2597        |                | 0.2597        | 0.2597        | 0.0000          | 76.4842         | 76.4842         | 0.0728        | 0.0000        | 78.3042         |
| <b>Total</b>          | <b>58.3371</b> | <b>0.9460</b> | <b>73.2981</b> | <b>0.0455</b> |               | <b>3.9173</b> | <b>3.9173</b> |                | <b>3.9173</b> | <b>3.9173</b> | <b>325.0992</b> | <b>231.5720</b> | <b>556.6712</b> | <b>0.0758</b> | <b>0.0315</b> | <b>567.9610</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

|  | Total CO2 | CH4 | N2O | CO2e |
|--|-----------|-----|-----|------|
|--|-----------|-----|-----|------|

Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

| Category    | MT/yr    |         |        |          |
|-------------|----------|---------|--------|----------|
| Mitigated   | 542.0112 | 13.4348 | 0.3218 | 973.7757 |
| Unmitigated | 542.0112 | 13.4348 | 0.3218 | 973.7757 |

**7.2 Water by Land Use**

Unmitigated

|                       | Indoor/Outdoor Use | Total CO2       | CH4            | N2O           | CO2e            |
|-----------------------|--------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal               | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335  | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387  | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747  | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                    | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

Mitigated

|                       | Indoor/Outdoor Use | Total CO2       | CH4            | N2O           | CO2e            |
|-----------------------|--------------------|-----------------|----------------|---------------|-----------------|
| Land Use              | Mgal               | MT/yr           |                |               |                 |
| Apartments Low Rise   | 197.221 / 124.335  | 260.1757        | 6.4489         | 0.1545        | 467.4309        |
| Mobile Home Park      | 20.5235 / 12.9387  | 27.0748         | 0.6711         | 0.0161        | 48.6425         |
| Single Family Housing | 193.117 / 121.747  | 254.7607        | 6.3147         | 0.1513        | 457.7024        |
| <b>Total</b>          |                    | <b>542.0112</b> | <b>13.4348</b> | <b>0.3218</b> | <b>973.7757</b> |

**8.0 Waste Detail**

**8.1 Mitigation Measures Waste**

Category/Year

Larkspur General Plan - Existing in 2040 (No Project) - Marin County, Annual

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

|             | Total CO2  | CH4     | N2O    | CO2e       |
|-------------|------------|---------|--------|------------|
|             | MT/yr      |         |        |            |
| Mitigated   | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |
| Unmitigated | 1,034.7789 | 61.1537 | 0.0000 | 2,563.6210 |

**8.2 Waste by Land Use**

Unmitigated

|                       | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use              | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

Mitigated

|                       | Waste Disposed | Total CO2         | CH4            | N2O           | CO2e              |
|-----------------------|----------------|-------------------|----------------|---------------|-------------------|
| Land Use              | tons           | MT/yr             |                |               |                   |
| Apartments Low Rise   | 1392.42        | 282.6487          | 16.7041        | 0.0000        | 700.2501          |
| Mobile Home Park      | 144.9          | 29.4134           | 1.7383         | 0.0000        | 72.8704           |
| Single Family Housing | 3560.34        | 722.7168          | 42.7113        | 0.0000        | 1,790.5004        |
| <b>Total</b>          |                | <b>1,034.7789</b> | <b>61.1537</b> | <b>0.0000</b> | <b>2,563.6210</b> |

**9.0 Operational Offroad**

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

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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Larkspur GP Growth - Marin County, Annual

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

**Larkspur GP Growth**

Marin County, Annual

**1.0 Project Characteristics**

**1.1 Land Usage**

| Land Uses           | Size     | Metric        | Lot Acreage | Floor Surface Area | Population |
|---------------------|----------|---------------|-------------|--------------------|------------|
| Apartments Low Rise | 1,340.00 | Dwelling Unit | 83.75       | 1,340,000.00       | 3832       |

**1.2 Other Project Characteristics**

|                                |        |                                |       |                                  |       |
|--------------------------------|--------|--------------------------------|-------|----------------------------------|-------|
| <b>Urbanization</b>            | Urban  | <b>Wind Speed (m/s)</b>        | 2.2   | <b>Precipitation Freq (Days)</b> | 69    |
| <b>Climate Zone</b>            | 5      |                                |       | <b>Operational Year</b>          | 2040  |
| <b>Utility Company</b>         | MCE    |                                |       |                                  |       |
| <b>CO2 Intensity (lb/MWhr)</b> | 289.98 | <b>CH4 Intensity (lb/MWhr)</b> | 0.033 | <b>N2O Intensity (lb/MWhr)</b>   | 0.004 |

**1.3 User Entered Comments & Non-Default Data**

- Project Characteristics -
- Land Use - Assume all Multi-family or small duet growth
- Construction Phase - Operation only
- Off-road Equipment - Operation only
- Grading -
- Vehicle Trips - Based on traffic data for project - 4.837/5.366/4.216
- Woodstoves - No woodburning in new homes
- Consumer Products - 78% of CalEEMod default for 2008
- Vehicle Emission Factors - Emfac2021

| Table Name          | Column Name | Default Value | New Value |
|---------------------|-------------|---------------|-----------|
| tblConsumerProducts | ROG_EF      | 2.14E-05      | 1.67E-05  |

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|                     |                            |             |             |
|---------------------|----------------------------|-------------|-------------|
| tblFireplaces       | FireplaceDayYear           | 11.14       | 0.00        |
| tblFireplaces       | FireplaceHourDay           | 3.50        | 0.00        |
| tblFireplaces       | FireplaceWoodMass          | 228.80      | 0.00        |
| tblFireplaces       | NumberGas                  | 201.00      | 0.00        |
| tblFireplaces       | NumberNoFireplace          | 53.60       | 0.00        |
| tblFireplaces       | NumberWood                 | 227.80      | 0.00        |
| tblFleetMix         | HHD                        | 3.7750e-003 | 4.5907e-003 |
| tblFleetMix         | LDA                        | 0.55        | 0.47        |
| tblFleetMix         | LDT1                       | 0.06        | 0.03        |
| tblFleetMix         | LDT2                       | 0.19        | 0.26        |
| tblFleetMix         | LHD1                       | 0.02        | 0.03        |
| tblFleetMix         | LHD2                       | 6.2570e-003 | 7.3396e-003 |
| tblFleetMix         | MCY                        | 0.03        | 0.03        |
| tblFleetMix         | MDV                        | 0.13        | 0.15        |
| tblFleetMix         | MH                         | 2.7300e-003 | 2.3330e-003 |
| tblFleetMix         | MHD                        | 7.1150e-003 | 8.2728e-003 |
| tblFleetMix         | OBUS                       | 6.4500e-004 | 5.2838e-004 |
| tblFleetMix         | SBUS                       | 7.2500e-004 | 6.3494e-004 |
| tblFleetMix         | UBUS                       | 3.4500e-004 | 4.4997e-004 |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 3.00        | 0.00        |
| tblOffRoadEquipment | OffRoadEquipmentUnitAmount | 4.00        | 0.00        |
| tblVehicleEF        | HHD                        | 0.03        | 0.14        |
| tblVehicleEF        | HHD                        | 0.07        | 0.06        |
| tblVehicleEF        | HHD                        | 1.0000e-006 | 0.00        |
| tblVehicleEF        | HHD                        | 6.23        | 4.38        |
| tblVehicleEF        | HHD                        | 0.53        | 0.60        |
| tblVehicleEF        | HHD                        | 0.02        | 1.8300e-003 |
| tblVehicleEF        | HHD                        | 820.06      | 579.33      |
| tblVehicleEF        | HHD                        | 1,101.03    | 1,127.94    |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.14        | 0.02        |
| tblVehicleEF | HHD | 0.13        | 0.09        |
| tblVehicleEF | HHD | 0.18        | 0.18        |
| tblVehicleEF | HHD | 3.5000e-005 | 1.0000e-006 |
| tblVehicleEF | HHD | 5.12        | 3.27        |
| tblVehicleEF | HHD | 2.44        | 1.16        |
| tblVehicleEF | HHD | 2.59        | 2.20        |
| tblVehicleEF | HHD | 2.0080e-003 | 1.4160e-003 |
| tblVehicleEF | HHD | 0.06        | 0.08        |
| tblVehicleEF | HHD | 0.04        | 0.04        |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 2.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 1.9210e-003 | 1.3490e-003 |
| tblVehicleEF | HHD | 0.03        | 0.03        |
| tblVehicleEF | HHD | 8.8660e-003 | 8.7900e-003 |
| tblVehicleEF | HHD | 0.02        | 0.02        |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF | HHD | 2.0700e-004 | 3.0000e-006 |
| tblVehicleEF | HHD | 0.41        | 0.27        |
| tblVehicleEF | HHD | 3.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 0.02        | 0.01        |
| tblVehicleEF | HHD | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF | HHD | 5.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 7.5590e-003 | 4.9180e-003 |
| tblVehicleEF | HHD | 9.8760e-003 | 9.9980e-003 |
| tblVehicleEF | HHD | 1.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 4.0000e-006 | 2.1000e-005 |
| tblVehicleEF | HHD | 2.0700e-004 | 3.0000e-006 |



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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | HHD | 0.48        | 0.43        |
| tblVehicleEF | HHD | 3.0000e-006 | 0.00        |
| tblVehicleEF | HHD | 0.10        | 0.08        |
| tblVehicleEF | HHD | 9.3000e-005 | 4.4000e-005 |
| tblVehicleEF | HHD | 5.0000e-006 | 0.00        |
| tblVehicleEF | LDA | 6.0800e-004 | 8.5600e-004 |
| tblVehicleEF | LDA | 0.02        | 0.03        |
| tblVehicleEF | LDA | 0.33        | 0.37        |
| tblVehicleEF | LDA | 1.44        | 1.60        |
| tblVehicleEF | LDA | 181.46      | 198.91      |
| tblVehicleEF | LDA | 37.03       | 50.66       |
| tblVehicleEF | LDA | 2.9670e-003 | 2.7230e-003 |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.02        | 0.02        |
| tblVehicleEF | LDA | 0.11        | 0.15        |
| tblVehicleEF | LDA | 0.04        | 6.2430e-003 |
| tblVehicleEF | LDA | 5.4200e-004 | 4.6400e-004 |
| tblVehicleEF | LDA | 7.4400e-004 | 8.5800e-004 |
| tblVehicleEF | LDA | 0.02        | 2.1850e-003 |
| tblVehicleEF | LDA | 4.9900e-004 | 4.2600e-004 |
| tblVehicleEF | LDA | 6.8400e-004 | 7.8800e-004 |
| tblVehicleEF | LDA | 0.01        | 0.19        |
| tblVehicleEF | LDA | 0.04        | 0.04        |
| tblVehicleEF | LDA | 0.01        | 0.00        |
| tblVehicleEF | LDA | 1.8400e-003 | 2.6790e-003 |
| tblVehicleEF | LDA | 0.02        | 0.14        |
| tblVehicleEF | LDA | 0.07        | 0.13        |
| tblVehicleEF | LDA | 1.7950e-003 | 1.9660e-003 |
| tblVehicleEF | LDA | 3.6600e-004 | 5.0100e-004 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDA  | 0.01        | 0.19        |
| tblVehicleEF | LDA  | 0.04        | 0.04        |
| tblVehicleEF | LDA  | 0.01        | 0.00        |
| tblVehicleEF | LDA  | 2.6690e-003 | 3.9070e-003 |
| tblVehicleEF | LDA  | 0.02        | 0.14        |
| tblVehicleEF | LDA  | 0.08        | 0.14        |
| tblVehicleEF | LDT1 | 7.0400e-004 | 1.2220e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.04        |
| tblVehicleEF | LDT1 | 0.35        | 0.49        |
| tblVehicleEF | LDT1 | 1.56        | 2.09        |
| tblVehicleEF | LDT1 | 218.38      | 264.21      |
| tblVehicleEF | LDT1 | 45.20       | 66.88       |
| tblVehicleEF | LDT1 | 2.9560e-003 | 3.4830e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.02        | 0.03        |
| tblVehicleEF | LDT1 | 0.13        | 0.20        |
| tblVehicleEF | LDT1 | 0.04        | 7.7750e-003 |
| tblVehicleEF | LDT1 | 6.1400e-004 | 6.2900e-004 |
| tblVehicleEF | LDT1 | 8.6800e-004 | 1.1810e-003 |
| tblVehicleEF | LDT1 | 0.02        | 2.7210e-003 |
| tblVehicleEF | LDT1 | 5.6400e-004 | 5.7900e-004 |
| tblVehicleEF | LDT1 | 7.9800e-004 | 1.0860e-003 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 2.1350e-003 | 4.1220e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.19        |
| tblVehicleEF | LDT1 | 2.1610e-003 | 2.6120e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT1 | 4.4700e-004 | 6.6100e-004 |
| tblVehicleEF | LDT1 | 0.02        | 0.40        |
| tblVehicleEF | LDT1 | 0.06        | 0.07        |
| tblVehicleEF | LDT1 | 0.03        | 0.00        |
| tblVehicleEF | LDT1 | 3.1150e-003 | 6.0150e-003 |
| tblVehicleEF | LDT1 | 0.04        | 0.29        |
| tblVehicleEF | LDT1 | 0.09        | 0.20        |
| tblVehicleEF | LDT2 | 8.9800e-004 | 1.2700e-003 |
| tblVehicleEF | LDT2 | 0.03        | 0.04        |
| tblVehicleEF | LDT2 | 0.40        | 0.50        |
| tblVehicleEF | LDT2 | 1.97        | 2.23        |
| tblVehicleEF | LDT2 | 219.00      | 278.34      |
| tblVehicleEF | LDT2 | 45.51       | 69.65       |
| tblVehicleEF | LDT2 | 3.1970e-003 | 3.5350e-003 |
| tblVehicleEF | LDT2 | 0.02        | 0.03        |
| tblVehicleEF | LDT2 | 0.02        | 0.02        |
| tblVehicleEF | LDT2 | 0.13        | 0.21        |
| tblVehicleEF | LDT2 | 0.04        | 7.6610e-003 |
| tblVehicleEF | LDT2 | 6.2500e-004 | 5.7600e-004 |
| tblVehicleEF | LDT2 | 8.0600e-004 | 1.0030e-003 |
| tblVehicleEF | LDT2 | 0.02        | 2.6810e-003 |
| tblVehicleEF | LDT2 | 5.7700e-004 | 5.3000e-004 |
| tblVehicleEF | LDT2 | 7.4100e-004 | 9.2300e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 2.9240e-003 | 4.1040e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.11        | 0.19        |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LDT2 | 2.1660e-003 | 2.7510e-003 |
| tblVehicleEF | LDT2 | 4.5000e-004 | 6.8900e-004 |
| tblVehicleEF | LDT2 | 0.03        | 0.26        |
| tblVehicleEF | LDT2 | 0.06        | 0.05        |
| tblVehicleEF | LDT2 | 0.03        | 0.00        |
| tblVehicleEF | LDT2 | 4.2230e-003 | 5.9750e-003 |
| tblVehicleEF | LDT2 | 0.04        | 0.19        |
| tblVehicleEF | LDT2 | 0.12        | 0.20        |
| tblVehicleEF | LHD1 | 3.4380e-003 | 2.8490e-003 |
| tblVehicleEF | LHD1 | 3.9830e-003 | 1.7250e-003 |
| tblVehicleEF | LHD1 | 6.2630e-003 | 0.01        |
| tblVehicleEF | LHD1 | 0.17        | 0.14        |
| tblVehicleEF | LHD1 | 0.38        | 0.30        |
| tblVehicleEF | LHD1 | 0.76        | 1.50        |
| tblVehicleEF | LHD1 | 7.68        | 5.81        |
| tblVehicleEF | LHD1 | 639.38      | 456.22      |
| tblVehicleEF | LHD1 | 8.73        | 11.22       |
| tblVehicleEF | LHD1 | 7.1300e-004 | 4.5600e-004 |
| tblVehicleEF | LHD1 | 0.04        | 0.03        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 0.04        | 0.02        |
| tblVehicleEF | LHD1 | 0.12        | 0.12        |
| tblVehicleEF | LHD1 | 0.17        | 0.21        |
| tblVehicleEF | LHD1 | 9.9400e-004 | 5.5300e-004 |
| tblVehicleEF | LHD1 | 0.08        | 0.06        |
| tblVehicleEF | LHD1 | 9.9970e-003 | 9.0130e-003 |
| tblVehicleEF | LHD1 | 5.5420e-003 | 6.1170e-003 |
| tblVehicleEF | LHD1 | 1.8100e-004 | 6.3000e-005 |
| tblVehicleEF | LHD1 | 9.5100e-004 | 5.2900e-004 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD1 | 0.03        | 0.02        |
| tblVehicleEF | LHD1 | 2.4990e-003 | 2.2530e-003 |
| tblVehicleEF | LHD1 | 5.2610e-003 | 5.8330e-003 |
| tblVehicleEF | LHD1 | 1.6600e-004 | 5.8000e-005 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.01        | 0.01        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.07        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD1 | 7.4000e-005 | 5.6000e-005 |
| tblVehicleEF | LHD1 | 6.2280e-003 | 4.4470e-003 |
| tblVehicleEF | LHD1 | 8.6000e-005 | 1.1100e-004 |
| tblVehicleEF | LHD1 | 8.9200e-004 | 0.07        |
| tblVehicleEF | LHD1 | 0.04        | 0.01        |
| tblVehicleEF | LHD1 | 0.02        | 0.02        |
| tblVehicleEF | LHD1 | 6.2800e-004 | 0.00        |
| tblVehicleEF | LHD1 | 0.08        | 0.03        |
| tblVehicleEF | LHD1 | 0.08        | 0.09        |
| tblVehicleEF | LHD1 | 0.03        | 0.05        |
| tblVehicleEF | LHD2 | 2.1220e-003 | 1.9680e-003 |
| tblVehicleEF | LHD2 | 4.8480e-003 | 2.6770e-003 |
| tblVehicleEF | LHD2 | 3.1470e-003 | 6.1430e-003 |
| tblVehicleEF | LHD2 | 0.13        | 0.13        |
| tblVehicleEF | LHD2 | 0.47        | 0.25        |
| tblVehicleEF | LHD2 | 0.43        | 1.03        |
| tblVehicleEF | LHD2 | 12.09       | 13.09       |
| tblVehicleEF | LHD2 | 627.34      | 493.03      |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 5.66        | 7.43        |
| tblVehicleEF | LHD2 | 1.5690e-003 | 1.6900e-003 |
| tblVehicleEF | LHD2 | 0.06        | 0.05        |
| tblVehicleEF | LHD2 | 9.1310e-003 | 0.01        |
| tblVehicleEF | LHD2 | 0.06        | 0.06        |
| tblVehicleEF | LHD2 | 0.16        | 0.23        |
| tblVehicleEF | LHD2 | 0.09        | 0.13        |
| tblVehicleEF | LHD2 | 1.5060e-003 | 1.4960e-003 |
| tblVehicleEF | LHD2 | 0.09        | 0.08        |
| tblVehicleEF | LHD2 | 0.01        | 9.8840e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 1.0000e-004 | 3.3000e-005 |
| tblVehicleEF | LHD2 | 1.4400e-003 | 1.4310e-003 |
| tblVehicleEF | LHD2 | 0.04        | 0.03        |
| tblVehicleEF | LHD2 | 2.7200e-003 | 2.4710e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 9.2000e-005 | 3.1000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |
| tblVehicleEF | LHD2 | 0.01        | 0.01        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.09        | 0.05        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | LHD2 | 1.1500e-004 | 1.2500e-004 |
| tblVehicleEF | LHD2 | 6.0480e-003 | 4.7370e-003 |
| tblVehicleEF | LHD2 | 5.6000e-005 | 7.3000e-005 |
| tblVehicleEF | LHD2 | 4.4600e-004 | 0.05        |
| tblVehicleEF | LHD2 | 0.02        | 7.8020e-003 |

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|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | LHD2 | 0.02        | 0.02        |
| tblVehicleEF | LHD2 | 3.2100e-004 | 0.00        |
| tblVehicleEF | LHD2 | 0.11        | 0.06        |
| tblVehicleEF | LHD2 | 0.04        | 0.06        |
| tblVehicleEF | LHD2 | 0.01        | 0.03        |
| tblVehicleEF | MCY  | 0.33        | 0.13        |
| tblVehicleEF | MCY  | 0.25        | 0.15        |
| tblVehicleEF | MCY  | 18.40       | 9.95        |
| tblVehicleEF | MCY  | 9.47        | 8.05        |
| tblVehicleEF | MCY  | 216.76      | 185.24      |
| tblVehicleEF | MCY  | 58.75       | 40.28       |
| tblVehicleEF | MCY  | 0.07        | 0.04        |
| tblVehicleEF | MCY  | 0.02        | 5.3700e-003 |
| tblVehicleEF | MCY  | 1.17        | 0.49        |
| tblVehicleEF | MCY  | 0.27        | 0.09        |
| tblVehicleEF | MCY  | 0.01        | 0.01        |
| tblVehicleEF | MCY  | 2.3190e-003 | 2.0580e-003 |
| tblVehicleEF | MCY  | 2.9230e-003 | 3.4860e-003 |
| tblVehicleEF | MCY  | 5.0400e-003 | 4.2000e-003 |
| tblVehicleEF | MCY  | 2.1620e-003 | 1.9190e-003 |
| tblVehicleEF | MCY  | 2.7280e-003 | 3.2550e-003 |
| tblVehicleEF | MCY  | 0.77        | 3.63        |
| tblVehicleEF | MCY  | 0.63        | 3.57        |
| tblVehicleEF | MCY  | 0.45        | 0.00        |
| tblVehicleEF | MCY  | 2.21        | 0.81        |
| tblVehicleEF | MCY  | 0.41        | 3.86        |
| tblVehicleEF | MCY  | 1.89        | 1.05        |
| tblVehicleEF | MCY  | 2.1450e-003 | 1.8310e-003 |
| tblVehicleEF | MCY  | 5.8100e-004 | 3.9800e-004 |

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|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MCY | 0.77        | 0.09        |
| tblVehicleEF | MCY | 0.63        | 3.57        |
| tblVehicleEF | MCY | 0.45        | 0.00        |
| tblVehicleEF | MCY | 2.77        | 1.00        |
| tblVehicleEF | MCY | 0.41        | 3.86        |
| tblVehicleEF | MCY | 2.06        | 1.14        |
| tblVehicleEF | MDV | 9.2200e-004 | 1.3200e-003 |
| tblVehicleEF | MDV | 0.03        | 0.05        |
| tblVehicleEF | MDV | 0.39        | 0.50        |
| tblVehicleEF | MDV | 1.96        | 2.21        |
| tblVehicleEF | MDV | 265.57      | 331.03      |
| tblVehicleEF | MDV | 53.62       | 82.14       |
| tblVehicleEF | MDV | 4.4140e-003 | 4.1000e-003 |
| tblVehicleEF | MDV | 0.02        | 0.03        |
| tblVehicleEF | MDV | 0.02        | 0.03        |
| tblVehicleEF | MDV | 0.14        | 0.22        |
| tblVehicleEF | MDV | 0.04        | 7.7070e-003 |
| tblVehicleEF | MDV | 6.2400e-004 | 5.6900e-004 |
| tblVehicleEF | MDV | 8.1400e-004 | 9.8400e-004 |
| tblVehicleEF | MDV | 0.02        | 2.6970e-003 |
| tblVehicleEF | MDV | 5.7500e-004 | 5.2400e-004 |
| tblVehicleEF | MDV | 7.4800e-004 | 9.0500e-004 |
| tblVehicleEF | MDV | 0.04        | 0.25        |
| tblVehicleEF | MDV | 0.07        | 0.05        |
| tblVehicleEF | MDV | 0.05        | 0.00        |
| tblVehicleEF | MDV | 3.0890e-003 | 4.3960e-003 |
| tblVehicleEF | MDV | 0.04        | 0.19        |
| tblVehicleEF | MDV | 0.11        | 0.20        |
| tblVehicleEF | MDV | 2.6240e-003 | 3.2710e-003 |



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

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MDV | 5.3100e-004 | 8.1200e-004 |
| tblVehicleEF | MDV | 0.04        | 0.25        |
| tblVehicleEF | MDV | 0.07        | 0.05        |
| tblVehicleEF | MDV | 0.05        | 0.00        |
| tblVehicleEF | MDV | 4.4500e-003 | 6.3960e-003 |
| tblVehicleEF | MDV | 0.04        | 0.19        |
| tblVehicleEF | MDV | 0.13        | 0.21        |
| tblVehicleEF | MH  | 3.8260e-003 | 4.1790e-003 |
| tblVehicleEF | MH  | 0.02        | 0.02        |
| tblVehicleEF | MH  | 0.19        | 0.21        |
| tblVehicleEF | MH  | 1.44        | 1.49        |
| tblVehicleEF | MH  | 1,243.50    | 1,615.83    |
| tblVehicleEF | MH  | 13.48       | 17.26       |
| tblVehicleEF | MH  | 0.05        | 0.07        |
| tblVehicleEF | MH  | 0.03        | 0.03        |
| tblVehicleEF | MH  | 0.90        | 1.12        |
| tblVehicleEF | MH  | 0.21        | 0.25        |
| tblVehicleEF | MH  | 0.13        | 0.04        |
| tblVehicleEF | MH  | 0.01        | 0.01        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 2.0700e-004 | 2.0800e-004 |
| tblVehicleEF | MH  | 0.06        | 0.02        |
| tblVehicleEF | MH  | 3.3130e-003 | 3.3830e-003 |
| tblVehicleEF | MH  | 9.9190e-003 | 0.01        |
| tblVehicleEF | MH  | 1.9100e-004 | 1.9200e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.03        | 0.04        |

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

|              |     |             |             |
|--------------|-----|-------------|-------------|
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.07        |
| tblVehicleEF | MH  | 0.01        | 0.02        |
| tblVehicleEF | MH  | 1.3300e-004 | 1.7100e-004 |
| tblVehicleEF | MH  | 0.19        | 10.83       |
| tblVehicleEF | MH  | 0.01        | 1.95        |
| tblVehicleEF | MH  | 0.10        | 0.00        |
| tblVehicleEF | MH  | 0.04        | 0.05        |
| tblVehicleEF | MH  | 1.9190e-003 | 0.06        |
| tblVehicleEF | MH  | 0.07        | 0.08        |
| tblVehicleEF | MHD | 5.4540e-003 | 0.02        |
| tblVehicleEF | MHD | 1.0210e-003 | 8.8140e-003 |
| tblVehicleEF | MHD | 0.01        | 6.3910e-003 |
| tblVehicleEF | MHD | 0.58        | 0.50        |
| tblVehicleEF | MHD | 0.14        | 0.09        |
| tblVehicleEF | MHD | 1.10        | 0.60        |
| tblVehicleEF | MHD | 83.31       | 99.48       |
| tblVehicleEF | MHD | 949.91      | 696.01      |
| tblVehicleEF | MHD | 11.15       | 6.34        |
| tblVehicleEF | MHD | 0.01        | 0.02        |
| tblVehicleEF | MHD | 0.11        | 0.08        |
| tblVehicleEF | MHD | 0.01        | 4.7120e-003 |
| tblVehicleEF | MHD | 0.45        | 0.50        |
| tblVehicleEF | MHD | 1.29        | 0.25        |
| tblVehicleEF | MHD | 1.54        | 0.71        |
| tblVehicleEF | MHD | 1.3600e-004 | 1.8900e-004 |
| tblVehicleEF | MHD | 0.13        | 0.04        |
| tblVehicleEF | MHD | 6.2610e-003 | 2.0990e-003 |
| tblVehicleEF | MHD | 1.5800e-004 | 7.9000e-005 |

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

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | MHD  | 1.3000e-004 | 1.8000e-004 |
| tblVehicleEF | MHD  | 0.06        | 0.01        |
| tblVehicleEF | MHD  | 5.9800e-003 | 2.0010e-003 |
| tblVehicleEF | MHD  | 1.4500e-004 | 7.3000e-005 |
| tblVehicleEF | MHD  | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD  | 0.03        | 0.02        |
| tblVehicleEF | MHD  | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.01        | 5.9010e-003 |
| tblVehicleEF | MHD  | 0.02        | 0.03        |
| tblVehicleEF | MHD  | 0.06        | 0.03        |
| tblVehicleEF | MHD  | 7.9100e-004 | 8.9500e-004 |
| tblVehicleEF | MHD  | 9.1040e-003 | 6.5700e-003 |
| tblVehicleEF | MHD  | 1.1000e-004 | 6.3000e-005 |
| tblVehicleEF | MHD  | 3.5300e-004 | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 2.8910e-003 |
| tblVehicleEF | MHD  | 0.04        | 0.04        |
| tblVehicleEF | MHD  | 2.5300e-004 | 0.00        |
| tblVehicleEF | MHD  | 0.01        | 0.02        |
| tblVehicleEF | MHD  | 0.02        | 0.03        |
| tblVehicleEF | MHD  | 0.06        | 0.04        |
| tblVehicleEF | OBUS | 8.3520e-003 | 7.1630e-003 |
| tblVehicleEF | OBUS | 2.3930e-003 | 6.0370e-003 |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.57        | 0.53        |
| tblVehicleEF | OBUS | 0.25        | 0.29        |
| tblVehicleEF | OBUS | 1.96        | 1.93        |
| tblVehicleEF | OBUS | 68.10       | 67.86       |
| tblVehicleEF | OBUS | 1,173.93    | 1,126.50    |

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

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 16.48       | 16.45       |
| tblVehicleEF | OBUS | 9.0320e-003 | 9.2340e-003 |
| tblVehicleEF | OBUS | 0.09        | 0.11        |
| tblVehicleEF | OBUS | 0.02        | 0.01        |
| tblVehicleEF | OBUS | 0.31        | 0.18        |
| tblVehicleEF | OBUS | 1.11        | 0.70        |
| tblVehicleEF | OBUS | 0.81        | 0.51        |
| tblVehicleEF | OBUS | 1.0400e-004 | 1.7300e-004 |
| tblVehicleEF | OBUS | 0.13        | 0.05        |
| tblVehicleEF | OBUS | 6.7660e-003 | 0.01        |
| tblVehicleEF | OBUS | 2.1400e-004 | 1.6500e-004 |
| tblVehicleEF | OBUS | 9.9000e-005 | 1.6600e-004 |
| tblVehicleEF | OBUS | 0.06        | 0.02        |
| tblVehicleEF | OBUS | 6.4510e-003 | 0.01        |
| tblVehicleEF | OBUS | 1.9700e-004 | 1.5200e-004 |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.05        | 0.04        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.03        |
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.10        | 0.10        |
| tblVehicleEF | OBUS | 6.4900e-004 | 6.4400e-004 |
| tblVehicleEF | OBUS | 0.01        | 0.01        |
| tblVehicleEF | OBUS | 1.3910e-003 | 0.12        |
| tblVehicleEF | OBUS | 0.02        | 0.02        |
| tblVehicleEF | OBUS | 0.07        | 0.06        |
| tblVehicleEF | OBUS | 7.3400e-004 | 0.00        |
| tblVehicleEF | OBUS | 0.02        | 0.04        |

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

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | OBUS | 0.08        | 0.13        |
| tblVehicleEF | OBUS | 0.11        | 0.11        |
| tblVehicleEF | SBUS | 0.10        | 0.10        |
| tblVehicleEF | SBUS | 1.5470e-003 | 0.05        |
| tblVehicleEF | SBUS | 8.5390e-003 | 6.8060e-003 |
| tblVehicleEF | SBUS | 4.03        | 2.33        |
| tblVehicleEF | SBUS | 0.15        | 0.26        |
| tblVehicleEF | SBUS | 1.10        | 0.78        |
| tblVehicleEF | SBUS | 293.45      | 149.88      |
| tblVehicleEF | SBUS | 798.43      | 664.07      |
| tblVehicleEF | SBUS | 6.40        | 5.05        |
| tblVehicleEF | SBUS | 0.04        | 0.02        |
| tblVehicleEF | SBUS | 0.08        | 0.06        |
| tblVehicleEF | SBUS | 8.5440e-003 | 8.2110e-003 |
| tblVehicleEF | SBUS | 1.29        | 0.48        |
| tblVehicleEF | SBUS | 0.93        | 0.28        |
| tblVehicleEF | SBUS | 1.83        | 0.48        |
| tblVehicleEF | SBUS | 3.7000e-004 | 1.8100e-004 |
| tblVehicleEF | SBUS | 0.74        | 0.04        |
| tblVehicleEF | SBUS | 0.01        | 9.8940e-003 |
| tblVehicleEF | SBUS | 5.8320e-003 | 2.1420e-003 |
| tblVehicleEF | SBUS | 1.1100e-004 | 7.1000e-005 |
| tblVehicleEF | SBUS | 3.5400e-004 | 1.7200e-004 |
| tblVehicleEF | SBUS | 0.32        | 0.01        |
| tblVehicleEF | SBUS | 2.5830e-003 | 2.4730e-003 |
| tblVehicleEF | SBUS | 5.5550e-003 | 2.0300e-003 |
| tblVehicleEF | SBUS | 1.0200e-004 | 6.5000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |

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

|              |      |             |             |
|--------------|------|-------------|-------------|
| tblVehicleEF | SBUS | 0.44        | 0.26        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.01        | 8.8610e-003 |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | SBUS | 2.8110e-003 | 1.3410e-003 |
| tblVehicleEF | SBUS | 7.6800e-003 | 6.2230e-003 |
| tblVehicleEF | SBUS | 6.3000e-005 | 5.0000e-005 |
| tblVehicleEF | SBUS | 1.2380e-003 | 0.11        |
| tblVehicleEF | SBUS | 0.01        | 0.02        |
| tblVehicleEF | SBUS | 0.63        | 0.42        |
| tblVehicleEF | SBUS | 6.5000e-004 | 0.00        |
| tblVehicleEF | SBUS | 0.02        | 0.06        |
| tblVehicleEF | SBUS | 0.02        | 0.07        |
| tblVehicleEF | SBUS | 0.05        | 0.04        |
| tblVehicleEF | UBUS | 0.83        | 0.04        |
| tblVehicleEF | UBUS | 0.03        | 8.2710e-003 |
| tblVehicleEF | UBUS | 6.41        | 0.48        |
| tblVehicleEF | UBUS | 2.41        | 1.81        |
| tblVehicleEF | UBUS | 1,627.81    | 243.15      |
| tblVehicleEF | UBUS | 21.97       | 10.39       |
| tblVehicleEF | UBUS | 0.14        | 8.5720e-003 |
| tblVehicleEF | UBUS | 0.02        | 0.01        |
| tblVehicleEF | UBUS | 0.47        | 9.2940e-003 |
| tblVehicleEF | UBUS | 0.25        | 0.08        |
| tblVehicleEF | UBUS | 0.11        | 2.45        |
| tblVehicleEF | UBUS | 0.02        | 1.11        |
| tblVehicleEF | UBUS | 3.5750e-003 | 4.0100e-004 |
| tblVehicleEF | UBUS | 2.8000e-004 | 4.4000e-005 |

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

|                 |                    |             |             |
|-----------------|--------------------|-------------|-------------|
| tblVehicleEF    | UBUS               | 0.05        | 0.86        |
| tblVehicleEF    | UBUS               | 5.0890e-003 | 0.28        |
| tblVehicleEF    | UBUS               | 3.3750e-003 | 3.7300e-004 |
| tblVehicleEF    | UBUS               | 2.5800e-004 | 4.0000e-005 |
| tblVehicleEF    | UBUS               | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS               | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS               | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS               | 0.02        | 2.7500e-003 |
| tblVehicleEF    | UBUS               | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS               | 0.14        | 0.03        |
| tblVehicleEF    | UBUS               | 0.01        | 2.2470e-003 |
| tblVehicleEF    | UBUS               | 2.1700e-004 | 1.0300e-004 |
| tblVehicleEF    | UBUS               | 7.9200e-004 | 0.02        |
| tblVehicleEF    | UBUS               | 0.01        | 7.3650e-003 |
| tblVehicleEF    | UBUS               | 4.9500e-004 | 0.00        |
| tblVehicleEF    | UBUS               | 0.86        | 0.05        |
| tblVehicleEF    | UBUS               | 4.2780e-003 | 0.03        |
| tblVehicleEF    | UBUS               | 0.15        | 0.03        |
| tblVehicleTrips | DV_TP              | 11.00       | 0.00        |
| tblVehicleTrips | HO_TL              | 5.70        | 4.17        |
| tblVehicleTrips | HS_TL              | 4.80        | 4.17        |
| tblVehicleTrips | HW_TL              | 10.80       | 4.17        |
| tblVehicleTrips | PB_TP              | 3.00        | 0.00        |
| tblVehicleTrips | PR_TP              | 86.00       | 100.00      |
| tblVehicleTrips | ST_TR              | 8.14        | 5.37        |
| tblVehicleTrips | SU_TR              | 6.28        | 4.22        |
| tblVehicleTrips | WD_TR              | 7.32        | 4.84        |
| tblWoodstoves   | NumberCatalytic    | 26.80       | 0.00        |
| tblWoodstoves   | NumberNoncatalytic | 26.80       | 0.00        |

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

|               |                   |        |      |
|---------------|-------------------|--------|------|
| tblWoodstoves | WoodstoveDayYear  | 14.12  | 0.00 |
| tblWoodstoves | WoodstoveWoodMass | 582.40 | 0.00 |

**2.0 Emissions Summary**

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

| Quarter | Start Date | End Date | Maximum Unmitigated ROG + NOX (tons/quarter) | Maximum Mitigated ROG + NOX (tons/quarter) |
|---------|------------|----------|--|--|
|         |            | Highest  |  |  |

**2.2 Overall Operational**

**Unmitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4            | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr           |                   |                   |                |               |                   |
| Area         | 5.3235        | 0.1143        | 9.9059         | 5.3000e-004   |               | 0.0552        | 0.0552        |                | 0.0552        | 0.0552        | 0.0000          | 16.2526           | 16.2526           | 0.0155         | 0.0000        | 16.6393           |
| Energy       | 0.1410        | 1.2050        | 0.5128         | 7.6900e-003   |               | 0.0974        | 0.0974        |                | 0.0974        | 0.0974        | 0.0000          | 2,106.3284        | 2,106.3284        | 0.1076         | 0.0354        | 2,119.5654        |
| Mobile       | 2.5885        | 1.0793        | 12.4788        | 0.0297        | 3.3049        | 0.0128        | 3.3177        | 0.8242         | 0.0119        | 0.8361        | 0.0000          | 2,737.3638        | 2,737.3638        | 0.1424         | 0.1267        | 2,778.6682        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 125.1236        | 0.0000            | 125.1236          | 7.3946         | 0.0000        | 309.9885          |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 27.6983         | 87.4769           | 115.1752          | 2.8548         | 0.0684        | 206.9235          |
| <b>Total</b> | <b>8.0530</b> | <b>2.3986</b> | <b>22.8975</b> | <b>0.0379</b> | <b>3.3049</b> | <b>0.1654</b> | <b>3.4703</b> | <b>0.8242</b>  | <b>0.1645</b> | <b>0.9887</b> | <b>152.8219</b> | <b>4,947.4217</b> | <b>5,100.2437</b> | <b>10.5150</b> | <b>0.2304</b> | <b>5,431.7850</b> |

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

**2.2 Overall Operational**

**Mitigated Operational**

|              | ROG           | NOx           | CO             | SO2           | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2        | NBio- CO2         | Total CO2         | CH4            | N2O           | CO2e              |
|--------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|-----------------|-------------------|-------------------|----------------|---------------|-------------------|
| Category     | tons/yr       |               |                |               |               |               |               |                |               |               | MT/yr           |                   |                   |                |               |                   |
| Area         | 5.3235        | 0.1143        | 9.9059         | 5.3000e-004   |               | 0.0552        | 0.0552        |                | 0.0552        | 0.0552        | 0.0000          | 16.2526           | 16.2526           | 0.0155         | 0.0000        | 16.6393           |
| Energy       | 0.1410        | 1.2050        | 0.5128         | 7.6900e-003   |               | 0.0974        | 0.0974        |                | 0.0974        | 0.0974        | 0.0000          | 2,106.3284        | 2,106.3284        | 0.1076         | 0.0354        | 2,119.5654        |
| Mobile       | 2.5885        | 1.0793        | 12.4788        | 0.0297        | 3.3049        | 0.0128        | 3.3177        | 0.8242         | 0.0119        | 0.8361        | 0.0000          | 2,737.3638        | 2,737.3638        | 0.1424         | 0.1267        | 2,778.6682        |
| Waste        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 125.1236        | 0.0000            | 125.1236          | 7.3946         | 0.0000        | 309.9885          |
| Water        |               |               |                |               |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 27.6983         | 87.4769           | 115.1752          | 2.8548         | 0.0684        | 206.9235          |
| <b>Total</b> | <b>8.0530</b> | <b>2.3986</b> | <b>22.8975</b> | <b>0.0379</b> | <b>3.3049</b> | <b>0.1654</b> | <b>3.4703</b> | <b>0.8242</b>  | <b>0.1645</b> | <b>0.9887</b> | <b>152.8219</b> | <b>4,947.4217</b> | <b>5,100.2437</b> | <b>10.5150</b> | <b>0.2304</b> | <b>5,431.7850</b> |

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

**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 | 12/14/2021 | 3/7/2022 | 5             | 60       |                   |

**Acres of Grading (Site Preparation Phase): 0**

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

**Acres of Grading (Grading Phase): 0**

**Acres of Paving: 0**

**Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 0; Non-Residential Outdoor: 0; Striped Parking Area: 0 (Architectural Coating – sqft)**

**OffRoad Equipment**

| Phase Name       | Offroad Equipment Type    | Amount | Usage Hours | Horse Power | Load Factor |
|------------------|---------------------------|--------|-------------|-------------|-------------|
| Site Preparation | Rubber Tired Dozers       | 0      | 8.00        | 247         | 0.40        |
| Site Preparation | Tractors/Loaders/Backhoes | 0      | 8.00        | 97          | 0.37        |

**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 | 0                       | 0.00               | 0.00               | 0.00                | 10.80              | 7.30               | 20.00               | LD_Mix               | HDT_Mix              | HHDT                  |

**3.1 Mitigation Measures Construction**











Larkspur GP Growth - Marin County, Annual

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    | tons/yr |        |         |        |               |              |            |                |               |             | MT/yr    |            |            |        |        |            |
| Mitigated   | 2.5885  | 1.0793 | 12.4788 | 0.0297 | 3.3049        | 0.0128       | 3.3177     | 0.8242         | 0.0119        | 0.8361      | 0.0000   | 2,737.3638 | 2,737.3638 | 0.1424 | 0.1267 | 2,778.6682 |
| Unmitigated | 2.5885  | 1.0793 | 12.4788 | 0.0297 | 3.3049        | 0.0128       | 3.3177     | 0.8242         | 0.0119        | 0.8361      | 0.0000   | 2,737.3638 | 2,737.3638 | 0.1424 | 0.1267 | 2,778.6682 |

4.2 Trip Summary Information

| Land Use            | Average Daily Trip Rate |          |          | Unmitigated | Mitigated  |
|---------------------|-------------------------|----------|----------|-------------|------------|
|                     | Weekday                 | Saturday | Sunday   | Annual VMT  | Annual VMT |
| Apartments Low Rise | 6,485.60                | 7,195.80 | 5654.80  | 9,818,212   | 9,818,212  |
| Total               | 6,485.60                | 7,195.80 | 5,654.80 | 9,818,212   | 9,818,212  |

4.3 Trip Type Information

| Land Use            | Miles      |            |             | Trip %     |            |             | Trip Purpose % |          |         |
|---------------------|------------|------------|-------------|------------|------------|-------------|----------------|----------|---------|
|                     | H-W or C-W | H-S or C-C | H-O or C-NW | H-W or C-W | H-S or C-C | H-O or C-NW | Primary        | Diverted | Pass-by |
| Apartments Low Rise | 4.17       | 4.17       | 4.17        | 31.00      | 15.00      | 54.00       | 100            | 0        | 0       |

4.4 Fleet Mix

| Land Use            | LDA      | LDT1     | LDT2     | MDV      | LHD1     | LHD2     | MHD      | HHD      | OBUS     | UBUS     | MCY      | SBUS     | MH       |
|---------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Apartments Low Rise | 0.470853 | 0.033468 | 0.263443 | 0.153949 | 0.029127 | 0.007340 | 0.008273 | 0.004591 | 0.000528 | 0.000450 | 0.025010 | 0.000635 | 0.002333 |

Larkspur GP Growth - Marin County, Annual

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

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

|                         | ROG     | NOx    | CO     | SO2         | Fugitive PM10 | Exhaust PM10 | PM10 Total | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total | Bio- CO2 | NBio- CO2  | Total CO2  | CH4    | N2O         | CO2e       |
|-------------------------|---------|--------|--------|-------------|---------------|--------------|------------|----------------|---------------|-------------|----------|------------|------------|--------|-------------|------------|
| Category                | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |            |            |        |             |            |
| Electricity Mitigated   |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 710.7894   | 710.7894   | 0.0809 | 9.8000e-003 | 715.7334   |
| Electricity Unmitigated |         |        |        |             |               | 0.0000       | 0.0000     |                | 0.0000        | 0.0000      | 0.0000   | 710.7894   | 710.7894   | 0.0809 | 9.8000e-003 | 715.7334   |
| NaturalGas Mitigated    | 0.1410  | 1.2050 | 0.5128 | 7.6900e-003 |               | 0.0974       | 0.0974     |                | 0.0974        | 0.0974      | 0.0000   | 1,395.5390 | 1,395.5390 | 0.0268 | 0.0256      | 1,403.8320 |
| NaturalGas Unmitigated  | 0.1410  | 1.2050 | 0.5128 | 7.6900e-003 |               | 0.0974       | 0.0974     |                | 0.0974        | 0.0974      | 0.0000   | 1,395.5390 | 1,395.5390 | 0.0268 | 0.0256      | 1,403.8320 |

Larkspur GP Growth - Marin County, Annual

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

**5.2 Energy by Land Use - NaturalGas**

**Unmitigated**

|                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| Apartments Low Rise | 2.61514e+007   | 0.1410        | 1.2050        | 0.5128        | 7.6900e-003        |               | 0.0974        | 0.0974        |                | 0.0974        | 0.0974        | 0.0000        | 1,395.5390        | 1,395.5390        | 0.0268        | 0.0256        | 1,403.8320        |
| <b>Total</b>        |                | <b>0.1410</b> | <b>1.2050</b> | <b>0.5128</b> | <b>7.6900e-003</b> |               | <b>0.0974</b> | <b>0.0974</b> |                | <b>0.0974</b> | <b>0.0974</b> | <b>0.0000</b> | <b>1,395.5390</b> | <b>1,395.5390</b> | <b>0.0268</b> | <b>0.0256</b> | <b>1,403.8320</b> |

**Mitigated**

|                     | NaturalGas Use | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2         | Total CO2         | CH4           | N2O           | CO2e              |
|---------------------|----------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|-------------------|-------------------|---------------|---------------|-------------------|
| Land Use            | kBTU/yr        | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                   |                   |               |               |                   |
| Apartments Low Rise | 2.61514e+007   | 0.1410        | 1.2050        | 0.5128        | 7.6900e-003        |               | 0.0974        | 0.0974        |                | 0.0974        | 0.0974        | 0.0000        | 1,395.5390        | 1,395.5390        | 0.0268        | 0.0256        | 1,403.8320        |
| <b>Total</b>        |                | <b>0.1410</b> | <b>1.2050</b> | <b>0.5128</b> | <b>7.6900e-003</b> |               | <b>0.0974</b> | <b>0.0974</b> |                | <b>0.0974</b> | <b>0.0974</b> | <b>0.0000</b> | <b>1,395.5390</b> | <b>1,395.5390</b> | <b>0.0268</b> | <b>0.0256</b> | <b>1,403.8320</b> |

Larkspur GP Growth - Marin County, Annual

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

**5.3 Energy by Land Use - Electricity**

**Unmitigated**

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 5.4039e+006     | 710.7894        | 0.0809        | 9.8000e-003        | 715.7334        |
| <b>Total</b>        |                 | <b>710.7894</b> | <b>0.0809</b> | <b>9.8000e-003</b> | <b>715.7334</b> |

**Mitigated**

|                     | Electricity Use | Total CO2       | CH4           | N2O                | CO2e            |
|---------------------|-----------------|-----------------|---------------|--------------------|-----------------|
| Land Use            | kWh/yr          | MT/yr           |               |                    |                 |
| Apartments Low Rise | 5.4039e+006     | 710.7894        | 0.0809        | 9.8000e-003        | 715.7334        |
| <b>Total</b>        |                 | <b>710.7894</b> | <b>0.0809</b> | <b>9.8000e-003</b> | <b>715.7334</b> |

**6.0 Area Detail**

**6.1 Mitigation Measures Area**

Larkspur GP Growth - Marin County, Annual

**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    | tons/yr |        |        |             |               |              |            |                |               |             | MT/yr    |           |           |        |        |         |
| Mitigated   | 5.3235  | 0.1143 | 9.9059 | 5.3000e-004 |               | 0.0552       | 0.0552     |                | 0.0552        | 0.0552      | 0.0000   | 16.2526   | 16.2526   | 0.0155 | 0.0000 | 16.6393 |
| Unmitigated | 5.3235  | 0.1143 | 9.9059 | 5.3000e-004 |               | 0.0552       | 0.0552     |                | 0.0552        | 0.0552      | 0.0000   | 16.2526   | 16.2526   | 0.0155 | 0.0000 | 16.6393 |

**6.2 Area by SubCategory**

Unmitigated

|                       | ROG           | NOx           | CO            | SO2                | Fugitive PM10 | Exhaust PM10  | PM10 Total    | Fugitive PM2.5 | Exhaust PM2.5 | PM2.5 Total   | Bio- CO2      | NBio- CO2      | Total CO2      | CH4           | N2O           | CO2e           |
|-----------------------|---------------|---------------|---------------|--------------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|----------------|
| SubCategory           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Architectural Coating | 0.9433        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Consumer Products     | 4.0840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.2963        | 0.1143        | 9.9059        | 5.3000e-004        |               | 0.0552        | 0.0552        |                | 0.0552        | 0.0552        | 0.0000        | 16.2526        | 16.2526        | 0.0155        | 0.0000        | 16.6393        |
| <b>Total</b>          | <b>5.3236</b> | <b>0.1143</b> | <b>9.9059</b> | <b>5.3000e-004</b> |               | <b>0.0552</b> | <b>0.0552</b> |                | <b>0.0552</b> | <b>0.0552</b> | <b>0.0000</b> | <b>16.2526</b> | <b>16.2526</b> | <b>0.0155</b> | <b>0.0000</b> | <b>16.6393</b> |

Larkspur GP Growth - Marin County, Annual

**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           | tons/yr       |               |               |                    |               |               |               |                |               |               | MT/yr         |                |                |               |               |                |
| Architectural Coating | 0.9433        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Consumer Products     | 4.0840        |               |               |                    |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Hearth                | 0.0000        | 0.0000        | 0.0000        | 0.0000             |               | 0.0000        | 0.0000        |                | 0.0000        | 0.0000        | 0.0000        | 0.0000         | 0.0000         | 0.0000        | 0.0000        | 0.0000         |
| Landscaping           | 0.2963        | 0.1143        | 9.9059        | 5.3000e-004        |               | 0.0552        | 0.0552        |                | 0.0552        | 0.0552        | 0.0000        | 16.2526        | 16.2526        | 0.0155        | 0.0000        | 16.6393        |
| <b>Total</b>          | <b>5.3236</b> | <b>0.1143</b> | <b>9.9059</b> | <b>5.3000e-004</b> |               | <b>0.0552</b> | <b>0.0552</b> |                | <b>0.0552</b> | <b>0.0552</b> | <b>0.0000</b> | <b>16.2526</b> | <b>16.2526</b> | <b>0.0155</b> | <b>0.0000</b> | <b>16.6393</b> |

**7.0 Water Detail**

**7.1 Mitigation Measures Water**

Larkspur GP Growth - Marin County, Annual

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

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
| Category    | MT/yr     |        |        |          |
| Mitigated   | 115.1752  | 2.8548 | 0.0684 | 206.9235 |
| Unmitigated | 115.1752  | 2.8548 | 0.0684 | 206.9235 |

**7.2 Water by Land Use**

**Unmitigated**

|                     | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|---------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use            | Mgal               | MT/yr           |               |               |                 |
| Apartments Low Rise | 87.3064 / 55.041   | 115.1752        | 2.8548        | 0.0684        | 206.9235        |
| <b>Total</b>        |                    | <b>115.1752</b> | <b>2.8548</b> | <b>0.0684</b> | <b>206.9235</b> |

Larkspur GP Growth - Marin County, Annual

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

**7.2 Water by Land Use**

Mitigated

|                     | Indoor/Outdoor Use | Total CO2       | CH4           | N2O           | CO2e            |
|---------------------|--------------------|-----------------|---------------|---------------|-----------------|
| Land Use            | Mgal               | MT/yr           |               |               |                 |
| Apartments Low Rise | 87.3064 / 55.041   | 115.1752        | 2.8548        | 0.0684        | 206.9235        |
| <b>Total</b>        |                    | <b>115.1752</b> | <b>2.8548</b> | <b>0.0684</b> | <b>206.9235</b> |

**8.0 Waste Detail**

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**8.1 Mitigation Measures Waste**

Category/Year

|             | Total CO2 | CH4    | N2O    | CO2e     |
|-------------|-----------|--------|--------|----------|
|             | MT/yr     |        |        |          |
| Mitigated   | 125.1236  | 7.3946 | 0.0000 | 309.9885 |
| Unmitigated | 125.1236  | 7.3946 | 0.0000 | 309.9885 |



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

**8.2 Waste by Land Use**

**Unmitigated**

|                     | Waste Disposed | Total CO2       | CH4           | N2O           | CO2e            |
|---------------------|----------------|-----------------|---------------|---------------|-----------------|
| Land Use            | tons           | MT/yr           |               |               |                 |
| Apartments Low Rise | 616.4          | 125.1236        | 7.3946        | 0.0000        | 309.9885        |
| <b>Total</b>        |                | <b>125.1236</b> | <b>7.3946</b> | <b>0.0000</b> | <b>309.9885</b> |

**Mitigated**

|                     | Waste Disposed | Total CO2       | CH4           | N2O           | CO2e            |
|---------------------|----------------|-----------------|---------------|---------------|-----------------|
| Land Use            | tons           | MT/yr           |               |               |                 |
| Apartments Low Rise | 616.4          | 125.1236        | 7.3946        | 0.0000        | 309.9885        |
| <b>Total</b>        |                | <b>125.1236</b> | <b>7.3946</b> | <b>0.0000</b> | <b>309.9885</b> |

**9.0 Operational Offroad**

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

Larkspur GP Growth - Marin County, Annual

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

**10.0 Stationary Equipment**

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**Fire Pumps and Emergency Generators**

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

**Boilers**

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

**User Defined Equipment**

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

**11.0 Vegetation**

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