

Appendix A

Amended Air Quality Modeling Sheets

Nishi Annual Operational GHG Emissions (Calculated Outside of CalEEMod)

| Electricity | | | | | | | |
|--|--------|-----------|--------|----------|----------|----------|-----------|
| Baseline (2022) | | | | | | | |
| Facility | MWh | Sqft | kWh/SF | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Electricity Total | 13,979 | | | 2,382 | 0.16 | 0.03 | 2,398 |
| Unmitigated (2022) | | | | | | | |
| Facility | MWh | Sqft | kWh/SF | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| MF For Sale | 1,450 | 325,200 | 4 | 247 | 0.02 | 0.00 | 249 |
| MF Rental | 3,092 | 604,200 | 5 | 527 | 0.04 | 0.01 | 530 |
| R&D | 4,171 | 325,000 | 13 | 711 | 0.05 | 0.01 | 715 |
| Retail | 107 | 20,000 | 5 | 18 | 0.00 | 0.00 | 18 |
| Roadway Ltg | 4 | | | 1 | 0.00 | 0.00 | 1 |
| Walk/Bike Path Ltg | 65 | | | 11 | 0.00 | 0.00 | 11 |
| Open Parking Ltg | 7 | | | 1 | 0.00 | 0.00 | 1 |
| Garage Ltg | 131 | | | 22 | 0.00 | 0.00 | 22 |
| Garage Ventilation | 195 | | | 33 | 0.00 | 0.00 | 33 |
| Pool | 15 | | | 3 | 0.00 | 0.00 | 3 |
| Spa (x3) | 28 | | | 5 | 0.00 | 0.00 | 5 |
| Electricity Total | 9,265 | 1,274,400 | 28 | 1,579 | 0 | 0 | 1,589 |
| Solar Panel Electricity Generation (Bldg and carports only) | 8,077 | | | 1,376 | 0 | 0 | 1,385 |
| Net Electricity Use with Solar Generation (Bldg and carports only) | 1,188 | | | 202 | | | 204 |
| Solar Panel Electricity Generation (Bldg and carports only + Additional PV) | 10,938 | | | 1,864 | 0 | 0 | 1,876 |
| Net Electricity Use with Solar Generation (Bldg and carports only + Additional PV) | -2,861 | | | -488 | | | -491 |

Note: Assumes PG&E emission factors achieve 33% renewables by 2022.

| Natural Gas | | | | | | | |
|--------------------|---------|---------|----------|----------|----------|----------|-----------|
| Baseline (2022) | | | | | | | |
| Facility | Therms | Sqft | Therm/SF | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Total | 268,000 | | | 1,421 | 13.40 | 0.27 | 1,956 |
| Natural Gas Total | 268,000 | | | 1,421 | 13.40 | 0.27 | 1,956 |
| Unmitigated (2022) | | | | | | | |
| Facility | Therms | Sqft | Therm/SF | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| MF For Sale | 21,860 | 325,200 | 67 | 116 | 1.09 | 0.02 | 160 |
| MF Rental | 61,480 | 604,200 | 102 | 326 | 3.07 | 0.06 | 449 |
| R&D | 102,050 | 325,000 | 314 | 541 | 5.10 | 0.10 | 745 |
| Retail | 1,800 | 20,000 | 90 | 10 | 0.09 | 0.00 | 13 |
| Roadway Ltg | - | | | 0 | 0.00 | 0.00 | 0 |
| Walk/Bike Path Ltg | - | | | 0 | 0.00 | 0.00 | 0 |
| Open Parking Ltg | - | | | 0 | 0.00 | 0.00 | 0 |
| Garage Ltg | - | | | 0 | 0.00 | 0.00 | 0 |
| Garage Ventilation | - | | | 0 | 0.00 | 0.00 | 0 |
| Pool | - | | | 0 | 0.00 | 0.00 | 0 |
| Spa (x3) | 5,130 | | | 27 | 0.26 | 0.01 | 37 |
| Other | | | | 0 | 0.00 | 0.00 | 0 |
| Natural Gas Total | 192,320 | | | 1,020 | 9.62 | 0.19 | 1,404 |

| Water | | | | | | |
|---|-------------------------|------------|-----------|-------------|-------------|-----------|
| Baseline (2022) | | | | | | |
| Water Management Type | Volume Transported (MG) | MWh | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Potable | | | | | | |
| R&D/Office | 7.7 | | | | | |
| R&D/Non-office | 2.9 | | | | | |
| Retail | 0.5 | | | | | |
| Retail (business use) | 1.9 | | | | | |
| Residential | 36.5 | | | | | |
| Non-Potable | | | | | | |
| Open Space | 4.9 | | | | | |
| Summary | | | | | | |
| Water Supply (potable) | 49.5 | 195.66 | 38 | 0.00 | 0.00 | 38 |
| Water Supply (recycled) | 4.9494 | 3.96 | 1 | 0.00 | 0.00 | 1 |
| Total | 54 | 200 | 39 | 0.00 | 0.00 | 39 |
| Unmitigated (2022) | | | | | | |
| Water Management Type | Volume Transported (MG) | MWh | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Potable | 46.3 | | | | | |
| Non-Potable | | | | | | |
| Open Space | 4.9 | | | | | |
| Summary | | | | | | |
| Water Supply (potable) | 46.3 | 182.75 | 35 | 0.00 | 0.00 | 36 |
| Water Supply (recycled) | 4.9 | 3.96 | 1 | 0.00 | 0.00 | 1 |
| Total | 51 | 187 | 36 | 0.00 | 0.00 | 36 |
| <i>Note: Assumes 5% reduction from baseline indoor water use that includes very high eff. fixtures.</i> | | | | | | |

| Transportation | | | | | | | |
|--|-------------------------|-----------|----------------------------|---------------|-------------|----------|---------------|
| On-Road - Unmitigated (2022) | | | | | | | |
| Vehicle Type | Vehicle Miles Travelled | Fuel Type | Fuel Use (1000 gal or kwh) | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Aggregate EMFAC2014 vehicle types | 78% | Gas | | | | | |
| Aggregate EMFAC2014 vehicle types | 14% | Diesel | | | | | |
| Aggregate EMFAC2014 vehicle types | 8% | Electric | | | | | |
| Aggregate EMFAC2014 vehicle types | 35,252 | Gas | | 10,590 | 0.22 | | 10,598 |
| Aggregate EMFAC2014 vehicle types | 6,384 | Diesel | | 335 | 0.00 | | 335 |
| Aggregate EMFAC2014 vehicle types | 3,564 | Electric | 1,265 | 0.245 | 0.00 | 0.00 | 0 |
| Total VMT from Fehr & Peers | 45,200 | | | 10,925 | 0.22 | | 10,933 |
| On-Road - Mitigated (2022) | | | | | | | |
| Vehicle Type | Vehicle Miles Travelled | Fuel Type | Fuel Use (1000 gal or kwh) | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Aggregate EMFAC2014 vehicle types | 78% | Gas | | | | | |
| Aggregate EMFAC2014 vehicle types | 14% | Diesel | | | | | |
| Aggregate EMFAC2014 vehicle types | 8% | Electric | | | | | |
| Aggregate EMFAC2014 vehicle types | 28,202 | Gas | | 8,472 | 0 | | 8,478 |
| Aggregate EMFAC2014 vehicle types | 5,107 | Diesel | | 268 | 0 | | 268 |
| Aggregate EMFAC2014 vehicle types | 2,851 | Electric | 1,012 | 0.172 | 0.00 | 0.00 | 0 |
| Total VMT from Fehr & Peers | 36,160 | | | 8,740 | 0.17 | | 8,746 |
| On-Road - Unmitigated (2050) | | | | | | | |
| Vehicle Type | Vehicle Miles Travelled | Fuel Type | Fuel Use (1000 gal or kwh) | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Aggregate EMFAC2014 vehicle types | 78% | Gas | | | | | |
| Aggregate EMFAC2014 vehicle types | 14% | Diesel | | | | | |
| Aggregate EMFAC2014 vehicle types | 8% | Electric | | | | | |
| Aggregate EMFAC2014 vehicle types | 35,252 | Gas | | 8,498 | 0 | | 8,500 |
| Aggregate EMFAC2014 vehicle types | 6,384 | Diesel | | 659 | 0 | | 659 |
| Aggregate EMFAC2014 vehicle types | 3,564 | Electric | 1,265 | 0.216 | 0.00 | 0.00 | 0.22 |
| Total VMT from Fehr & Peers | 45,200 | | | 9,157 | 0.07 | | 9,160 |
| On-Road - Mitigated (2050) | | | | | | | |
| Vehicle Type | Vehicle Miles Travelled | Fuel Type | Fuel Use (1000 gal or kwh) | CO2 (MT) | CH4 (MT) | N2O (MT) | CO2e (MT) |
| Aggregate EMFAC2014 vehicle types | 78% | Gas | | | | | |
| Aggregate EMFAC2014 vehicle types | 14% | Diesel | | | | | |
| Aggregate EMFAC2014 vehicle types | 8% | Electric | | | | | |
| Aggregate EMFAC2014 vehicle types | 28,202 | Gas | | 6,799 | 0 | | 6,800 |
| Aggregate EMFAC2014 vehicle types | 5,107 | Diesel | | 527 | 0 | | 527 |
| Aggregate EMFAC2014 vehicle types | 2,851 | Electric | 1,012 | 0.486 | 0.00 | 0.00 | 0 |
| Total VMT from Fehr & Peers | 36,160 | | | 7,326 | 0.05 | | 7,328 |

Note: Electricity use per mile for electric vehicles was based on average kwh per mile from EPA Fuel Economy Data. Assumes mileage based on 50% light duty autos and 50% light duty utility vehicles for the 2013 model year.

Source: <http://www.fueleconomy.gov/feg/download.shtml>

Yolo County Vehicle Emission Factors from EMFAC 2014

| | | | tpd/mi | | | | | | | | | | |
|---------------|-----------|------|----------|----------|----------|----------|----------|----------|----------|-----------------|-----------------|------------------|-------------------|
| Calendar Year | Fuel Type | %VMT | HC | CO | NOx | SOx | PM | TOG | ROG | CO ₂ | CH ₄ | PM ₁₀ | PM _{2.5} |
| 2022 | Gas | 85% | 3.13E-07 | 2.48E-06 | 2.21E-07 | 8.34E-09 | 1.32E-07 | 3.34E-07 | 3.15E-07 | 8.32E-04 | 1.69E-08 | 1.29E-07 | 5.43E-08 |
| 2022 | Dsl | 13% | 8.46E-09 | 5.16E-08 | 2.96E-07 | 1.67E-09 | 2.09E-08 | 1.21E-08 | 1.03E-08 | 1.75E-04 | 7.78E-10 | 2.06E-08 | 9.07E-09 |
| 2022 | Elec | 2% | 2.42E-10 | NA | NA | NA | 8.34E-09 | 2.61E-10 | 2.61E-10 | NA | NA | 8.20E-09 | 3.25E-09 |
| 2050 | Gas | 78% | 1.68E-07 | 1.28E-06 | 8.49E-08 | 7.29E-09 | 1.61E-07 | 1.80E-07 | 1.73E-07 | 7.28E-04 | 5.64E-09 | 1.58E-07 | 6.40E-08 |
| 2050 | Dsl | 14% | 1.00E-08 | 6.80E-08 | 4.28E-07 | 2.97E-09 | 3.70E-08 | 1.44E-08 | 1.26E-08 | 3.12E-04 | 6.21E-10 | 3.64E-08 | 1.54E-08 |
| 2050 | Elec | 8% | 1.73E-09 | NA | NA | NA | 4.10E-08 | 1.86E-09 | 1.86E-09 | NA | NA | 4.03E-08 | 1.60E-08 |

tpd/mi = tons per day per vehicle-mile
 NA = Not Available
 Source: EMFAC2014 v. 1.0.7

GHG Emission Assumptions

| GWP | | | |
|-------------------------|-------------|--|--|
| CO2 | 1 | | |
| CH4 | 34 | 100 year lifespan. With inclusion of climate-carbon feedbacks as recommended by several studies (Gillett and Matthews 2010, Collins et al. 2013) | IPCC Fifth Assessment Report - Chapter 8. Table 8.7 |
| N2O | 298 | | IPCC Fifth Assessment Report - Chapter 8. Table 8.7 |
| Energy Emission Factors | Value | Notes | Source |
| lb CH4/GWh | 28.49 | Electricity | eGrid 2010 (Updated February 2014) |
| lb N2O/GWh | 6.03 | Electricity | |
| lbs CO2/MWh | 427.272213 | Electricity - 2013 (23.8% renewable) | PG&E 2013 EPS Report. PG&E system average. CPUC http://www.cpuc.ca.gov/PUC/energy/Renewables/ |
| MT CO2/MWh | 0.193807416 | Electricity - 2013 (23.8% renewable) | |
| MT CO2/MWh | 0.170408095 | Electricity - 2020 (33% renewable) | Calculated from PG&E 2013 Emission Factors |
| MT CH4/MWh | 1.13626E-05 | Electricity (33% renewable) | Calculated from eGrid 2010 assuming eGrid factors are represented by 23.8% renewables |
| MT N2O/MWh | 2.40493E-06 | Electricity (33% renewable) | |
| kg CO2/MMBtu | 53.02 | Natural Gas - US Weighted Average | 2014 Climate Registry Emission Factors. Table 12.1. |
| g CH4/MMBtu | 5 | Natural Gas - Residential/Commercial | 2014 Climate Registry Emission Factors. Table 12.9. |
| g N2O/MMBtu | 0.1 | Natural Gas - Residential/Commercial | 2014 Climate Registry Emission Factors. Table 12.9. |

Operational Criteria Pollutant Emissions Calculations

Unmitigated

| Phase 1 | | | | TPY | TPY | lb/day | lb/day |
|----------------|-------------------------|-------------------------|--|-------------|-------------|-------------|--------------|
| Year | Emissions Source | Method | Notes | ROG | NOX | PM10 | PM2.5 |
| 2019 | Electricity | Calculated | Uses 2020 PGE EF's with RPS Applies therms/DU calculated from DEG. GHG calculated separately. GHG for phases scaled by | | | | |
| 2019 | Natural Gas | CalEEMod/ Calculated | CAP emissions Calculated from Cunningham Engineering | 0.05 | 0.43 | 0.18 | 0.18 |
| 2019 | Water | Calculated | numbers | NA | NA | NA | NA |
| 2019 | Waste | CalEEMod | Default | NA | NA | NA | NA |
| 2019 | Mobile | Calculated | Scaled total by residential and commercial sqft in Phase 1 | 2.14 | 1.80 | 4.91 | 2.06 |
| 2019 | Area Source | CalEEMod | Assume no hearths for new development. Does not account for consumer products. | 1.32 | 0.03 | 0.14 | 0.14 |
| 2019 | Consumer Products | Calculated | Using CalEEMod recommended emission factors (0.0000214 lbs ROG/sqft/day). CalEEMod incorrectly applies this emissions factor to all land uses, including land uses that might not have emissions such as parking lots. | 2.03 | | | |
| TOTAL | | | | 5.54 | 2.25 | 5.24 | 2.39 |
| | Consumer Products | CalEEMod | CalEEMod default calculation | 7.39 | | | |

Unmitigated

| Phase 2 | | | | TPY | TPY | lb/day | lb/day |
|----------------|-------------------------------------|--------------------------|--|-------------|-------------|-------------|--------------|
| Year | Emissions Source | Method | Notes | ROG | NOX | PM10 | PM2.5 |
| 2022 | Electricity | Calculated | Uses 2020 PGE EF's with RPS | | | | |
| 2022 | Natural Gas | CalIEEMod/ Calculated | Applies therms/DU calculated from DEG. GHG calculated separately. | 0.05 | 0.46 | 0.19 | 0.19 |
| 2022 | Water | Calculated | Calculated from Cunningham Engineering numbers | NA | NA | NA | NA |
| 2022 | Waste | CalIEEMod | Default | NA | NA | NA | NA |
| 2022 | Mobile | Calculated | Scaled total by residential and commercial sqft in Phase 2 | 2.30 | 1.94 | 5.29 | 2.22 |
| 2022 | Area Source (non consumer products) | CalIEEMod | Assume no hearths for new development. Does not account for consumer products. | 0.45 | 0.03 | 0.15 | 0.15 |
| 2022 | Consumer Products | Calculated | Using CalIEEMod recommended emission factors (0.0000214 lbs ROG/sqft/day). CalIEEMod incorrectly applies this emissions factor to all land uses, including land uses that might not have emissions such as parking lots. | 2.19 | | | |
| TOTAL | | | | 5.00 | 2.42 | 5.64 | 2.57 |
| | Consumer Products | CalIEEMod | CalIEEMod default calculation | 3.18 | | | |

Unmitigated

| Combined Annual Emissions | | | | TPY | TPY | lb/day | lb/day |
|-----------------------------------|------------------------------------|-----------|----------------|-------------|-------------|-------------|-------------|
| | Emissions Source | Model | Notes | ROG | NOX | PM10 | PM2.5 |
| 2022 | Energy | see above | | 0.10 | 0.88 | 0.38 | 0.38 |
| 2022 | <i>Electricity</i> | | | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> |
| 2022 | <i>Natural Gas</i> | | | <i>0.10</i> | <i>0.88</i> | <i>0.38</i> | <i>0.38</i> |
| 2022 | Water | see above | | NA | NA | NA | NA |
| 2022 | Waste | see above | | NA | NA | NA | NA |
| 2022 | Mobile | EMFAC2014 | VMT/d from F&P | 4.44 | 3.73 | 10.20 | 4.29 |
| 2022 | Area Source (w/ consumer products) | see above | | 6.00 | 0.06 | 0.29 | 0.29 |
| TOTAL | | | | 10.54 | 4.67 | 10.87 | 4.96 |
| Thresholds of Significance | | | | 10 | 10 | 80 | 80 |
| Exceeds Thresholds? | | | | Yes | No | No | No |

Mitigated (with 20% less VMT)

| Combined Annual Emissions | | | | TPY | TPY | lb/day | lb/day |
|-----------------------------------|------------------------------------|-----------|----------------|-------------|-------------|-------------|-------------|
| | Emissions Source | Model | Notes | ROG | NOX | PM10 | PM2.5 |
| 2022 | Energy | see above | | 0.10 | 0.88 | 0.38 | 0.38 |
| 2022 | <i>Electricity</i> | | | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> |
| 2022 | <i>Natural Gas</i> | | | <i>0.10</i> | <i>0.88</i> | <i>0.38</i> | <i>0.38</i> |
| 2022 | Water | see above | | NA | NA | NA | NA |
| 2022 | Waste | see above | | NA | NA | NA | NA |
| 2022 | Mobile | EMFAC2014 | VMT/d from F&P | 3.55 | 2.99 | 8.16 | 3.43 |
| 2022 | Area Source (w/ consumer products) | see above | | 6.00 | 0.06 | 0.29 | 0.29 |
| TOTAL | | | | 9.65 | 3.93 | 8.83 | 4.10 |
| Thresholds of Significance | | | | 10 | 10 | 80 | 80 |
| Exceeds Thresholds? | | | | No | No | No | No |

Reduction from Unmitigated

| Combined Annual Emissions | | | | TPY | TPY | lb/day | lb/day |
|---------------------------|------------------------------------|-----------|----------------|-------------|-------------|-------------|-------------|
| | Emissions Source | Model | Notes | ROG | NOX | PM10 | PM2.5 |
| 2022 | Energy | see above | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2022 | <i>Electricity</i> | | | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> |
| 2022 | <i>Natural Gas</i> | | | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> | <i>0.00</i> |
| 2022 | Water | see above | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2022 | Waste | see above | | 0.00 | 0.00 | 0.00 | 0.00 |
| 2022 | Mobile | EMFAC2014 | VMT/d from F&P | -0.89 | -0.75 | -2.04 | -0.86 |
| 2022 | Area Source (w/ consumer products) | see above | | 0.00 | 0.00 | 0.00 | 0.00 |
| TOTAL | | | | -0.89 | -0.75 | -2.04 | -0.86 |

Operational Mobile Source Emissions

Mobile Source Emissions - Calculations

VMT Reduction from Mitigation Measure 4.14-5

| LAND USE | DAILY PROJECT | Max TDM | Mitigated |
|-------------|---------------|------------|-----------|
| | VMT | Reductions | VMT |
| Employment | 24,900 | 23.1% | 19,148 |
| Residential | 20,300 | 24.0% | 15,428 |
| TOTAL | 45,200 | 20.0% | 36,160 |

Source: Grandy, pers. comm., 2015. (Traffic technical study, Revision from F&P in August 2015)

Calculation using EMFAC 2014 emission factors

| Calendar Year | VMT | Fuel Type | %VMT | tons/day/ VMT | | | | | |
|---------------|------------------------------|-----------|------|---------------|----------|------------------|-------------------|-----------------|-----------------|
| | | | | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| 2022 | 5,979,764.32 | Gas | 85% | 2.21E-07 | 3.15E-07 | 1.29E-07 | 5.43E-08 | 8.32E-04 | 1.69E-08 |
| 2022 | 897,634.01 | Dsl | 13% | 2.96E-07 | 1.03E-08 | 2.06E-08 | 9.07E-09 | 1.75E-04 | 7.78E-10 |
| 2022 | 151,424.29 | Elec | 2% | 0.00E+00 | 2.61E-10 | 8.20E-09 | 3.25E-09 | 0.00E+00 | 0.00E+00 |
| 2022 | Aggregate excluding electric | | | 2.26E-07 | 2.69E-07 | 1.13E-07 | 4.73E-08 | 7.30E-04 | 1.45E-08 |

| Unmitigated -2022 | | | | Tons/Year | | lbs/day | | MT/Year | |
|-----------------------------------|-----------|-----------|------|-----------|------|------------------|-------------------|-------------------------|-----------------|
| | VMT | Fuel Type | %VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| Aggregate EMFAC2014 vehicle types | 38,453.86 | Gas | 85% | 3.11 | 4.42 | 9.95 | 4.17 | 10,590.36 | 0.22 |
| Aggregate EMFAC2014 vehicle types | 5,772.38 | Diesel | 13% | 0.62 | 0.02 | 0.24 | 0.10 | 334.82 | 0.00 |
| Aggregate EMFAC2014 vehicle types | 973.76 | Electric | 2% | 0.00 | 0.00 | 0.02 | 0.01 | (calculated separately) | |
| TOTAL | 45,200.00 | | | 3.73 | 4.44 | 10.20 | 4.29 | 10,925.18 | 0.22 |

| Mitigated -2022 | | | | Tons/Year | | lbs/day | | MT/Year | |
|-----------------------------------|-----------|-----------|------|-----------|------|------------------|-------------------|-------------------------|-----------------|
| | VMT | Fuel Type | %VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| Aggregate EMFAC2014 vehicle types | 30,763.09 | Gas | 85% | 2.49 | 3.53 | 7.96 | 3.34 | 8,472.29 | 0.17 |
| Aggregate EMFAC2014 vehicle types | 4,617.91 | Diesel | 13% | 0.50 | 0.02 | 0.19 | 0.08 | 267.86 | 0.00 |
| Aggregate EMFAC2014 vehicle types | 779.01 | Electric | 2% | 0.00 | 0.00 | 0.01 | 0.01 | (calculated separately) | |
| TOTAL | 36,160.00 | | | 2.99 | 3.55 | 8.16 | 3.43 | 8,740.14 | 0.17 |

| Per capita analysis | Estimated MT CO ₂ e/ Year | Nishi Population | MTCO ₂ e/ capita |
|---------------------|---|---------------------|--------------------------------|
| | | | |
| Unmitigated -2022 | 10,933 | 2,804 | 3.90 |
| Mitigated -2022 | 8,746 | 2,804 | 3.12 |

Note: GHG emissions from electric vehicles calculated seperately

Mobile Source Emissions - Calculations

VMT Reduction from Mitigation Measure 4.14-5

| LAND USE | DAILY PROJECT VMT | Max TDM Reductions | Mitigated VMT |
|--------------|-------------------|--------------------|---------------|
| Employment | 24,900 | 23.1% | 19,148 |
| Residential | 20,300 | 24.0% | 15,428 |
| TOTAL | 45,200 | 20.0% | 36,160 |

Source: Grandy, pers. comm., 2015. (Traffic technical study, Revision from F&P in August 2015)

Calculation using EMFAC 2014 emission factors

| | | tons/day/ VMT | | | | | | | | | |
|---------------|------------------------------|---------------|------|----------|----------|------------------|-------------------|-----------------|-----------------|--|--|
| Calendar Year | VMT | Fuel Type | %VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ | | |
| 2050 | 7,333,564.22 | Gas | 78% | 8.49E-08 | 1.73E-07 | 1.58E-07 | 6.40E-08 | 7.28E-04 | 5.64E-09 | | |
| 2050 | 1,328,113.20 | Dsl | 14% | 4.28E-07 | 1.26E-08 | 3.64E-08 | 1.54E-08 | 3.12E-04 | 6.21E-10 | | |
| 2050 | 741,340.95 | Elec | 8% | 0.00E+00 | 1.86E-09 | 4.03E-08 | 1.60E-08 | 0.00E+00 | 0.00E+00 | | |
| 2050 | Aggregate excluding electric | | | 1.27E-07 | 1.37E-07 | 1.28E-07 | 5.21E-08 | 6.12E-04 | 4.49E-09 | | |

| Unmitigated -2050 | | | | Tons/Year | | lbs/day | | MT/Year | |
|-----------------------------------|------------------|-----------|------|-------------|-------------|------------------|-------------------|-------------------------|-----------------|
| | VMT | Fuel Type | %VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| Aggregate EMFAC2014 vehicle types | 35,252.20 | Gas | 78% | 1.09 | 2.23 | 11.12 | 4.51 | 8,498.17 | 0.07 |
| Aggregate EMFAC2014 vehicle types | 6,384.20 | Diesel | 14% | 1.00 | 0.03 | 0.46 | 0.20 | 658.94 | 0.00 |
| Aggregate EMFAC2014 vehicle types | 3,563.60 | Electric | 8% | 0.00 | 0.00 | 0.29 | 0.11 | (calculated separately) | |
| TOTAL | 45,200.00 | | | 2.09 | 2.26 | 11.87 | 4.82 | 9,157.11 | 0.07 |

| Mitigated -2050 | | | | Tons/Year | | lbs/day | | MT/Year | |
|-----------------------------------|------------------|-----------|------|-------------|-------------|------------------|-------------------|-------------------------|-----------------|
| | VMT | Fuel Type | %VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| Aggregate EMFAC2014 vehicle types | 28,201.76 | Gas | 78% | 0.87 | 1.78 | 8.90 | 3.61 | 6,798.54 | 0.05 |
| Aggregate EMFAC2014 vehicle types | 5,107.36 | Diesel | 14% | 0.80 | 0.02 | 0.37 | 0.16 | 527.15 | 0.00 |
| Aggregate EMFAC2014 vehicle types | 2,850.88 | Electric | 8% | 0.00 | 0.00 | 0.23 | 0.09 | (calculated separately) | |
| TOTAL | 36,160.00 | | | 1.67 | 1.81 | 9.50 | 3.86 | 7,325.69 | 0.05 |

| Per capita analysis | Estimated Nishi | | |
|---------------------|----------------------------|------------|-----------------------------|
| | MT CO ₂ e/ Year | Population | MTCO ₂ e/ capita |
| Unmitigated -2050 | 9,160 | 2,804 | 3.27 |
| Mitigated -2050 | 7,328 | 2,804 | 2.61 |

Note: GHG emissions from electric vehicles calculated seperately

Mobile Source Emissions - EMFAC2014 Emission Factors

| | | | | | g/mi | | | | | |
|----------|-----------|-------------------------------|-----------|--------------|---------|---------|------------------|-------------------|-----------------|-----------------|
| Calendar | | | | | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| Year | Sub_Area | Vehicle Class | Fuel Type | VMT | | | | | | |
| 2022 | Yolo (SV) | LDA | Gas | 3,270,263.19 | 0.24429 | 0.35370 | 0.16878 | 0.07085 | 995.05459 | 0.01945 |
| 2022 | Yolo (SV) | LDT1 | Gas | 277,446.25 | 0.04428 | 0.10574 | 0.01452 | 0.00619 | 98.30793 | 0.00360 |
| 2022 | Yolo (SV) | LDT2 | Gas | 1,464,270.13 | 0.15548 | 0.21309 | 0.07537 | 0.03154 | 582.41327 | 0.01042 |
| 2022 | Yolo (SV) | MDV | Gas | 821,773.50 | 0.18674 | 0.23775 | 0.04239 | 0.01779 | 453.79324 | 0.01290 |
| 2022 | Yolo (SV) | LHD1 | Gas | 64,862.48 | 0.09713 | 0.07994 | 0.00628 | 0.00271 | 62.70465 | 0.00405 |
| 2022 | Yolo (SV) | LHD2 | Gas | 11,510.90 | 0.01018 | 0.00572 | 0.00126 | 0.00054 | 12.18998 | 0.00032 |
| 2022 | Yolo (SV) | T6TS | Gas | 11,327.81 | 0.01674 | 0.00914 | 0.00180 | 0.00076 | 16.37599 | 0.00087 |
| 2022 | Yolo (SV) | T7IS | Gas | 1,453.56 | 0.00598 | 0.00114 | 0.00013 | 0.00005 | 2.79214 | 0.00029 |
| 2022 | Yolo (SV) | UBUS | Gas | 4,211.42 | 0.00624 | 0.00442 | 0.00067 | 0.00028 | 7.83563 | 0.00156 |
| 2022 | Yolo (SV) | SBUS | Gas | 2,079.35 | 0.00171 | 0.00093 | 0.00173 | 0.00074 | 1.66067 | 0.00025 |
| 2022 | Yolo (SV) | OBUS | Gas | 5,529.09 | 0.00434 | 0.00176 | 0.00088 | 0.00037 | 7.79153 | 0.00020 |
| 2022 | Yolo (SV) | MCY | Gas | 40,763.21 | 0.05719 | 0.20008 | 0.00084 | 0.00040 | 8.13482 | 0.02104 |
| 2022 | Yolo (SV) | MH | Gas | 4,273.44 | 0.00282 | 0.00084 | 0.00068 | 0.00029 | 6.03288 | 0.00023 |
| 2022 | Yolo (SV) | LDA | Elec | 151,135.13 | NA | 0.00024 | 0.00746 | 0.00296 | NA | NA |
| 2022 | Yolo (SV) | LDT1 | Elec | 289.16 | NA | 0.00000 | 0.00001 | 0.00001 | NA | NA |
| 2022 | Yolo (SV) | LDA | Dsl | 38,929.25 | 0.00547 | 0.00089 | 0.00248 | 0.00130 | 10.98589 | 0.00004 |
| 2022 | Yolo (SV) | LDT1 | Dsl | 380.80 | 0.00035 | 0.00004 | 0.00005 | 0.00004 | 0.14961 | 0.00000 |
| 2022 | Yolo (SV) | LDT2 | Dsl | 2,770.95 | 0.00011 | 0.00004 | 0.00015 | 0.00007 | 0.97985 | 0.00000 |
| 2022 | Yolo (SV) | MDV | Dsl | 16,648.02 | 0.00088 | 0.00023 | 0.00095 | 0.00045 | 7.85672 | 0.00001 |
| 2022 | Yolo (SV) | LHD1 | Dsl | 95,110.78 | 0.39831 | 0.02308 | 0.01370 | 0.00799 | 61.02311 | 0.00107 |
| 2022 | Yolo (SV) | LHD2 | Dsl | 26,465.64 | 0.05521 | 0.00478 | 0.00373 | 0.00195 | 18.51846 | 0.00022 |
| 2022 | Yolo (SV) | UBUS | Dsl | 8,048.47 | 0.08749 | 0.00604 | 0.00848 | 0.00409 | 18.64636 | 0.02891 |
| 2022 | Yolo (SV) | MH | Dsl | 1,285.34 | 0.00774 | 0.00021 | 0.00041 | 0.00028 | 1.49563 | 0.00001 |
| 2022 | Yolo (SV) | T6 Ag | Dsl | 5,496.94 | 0.03756 | 0.00343 | 0.00241 | 0.00184 | 7.79816 | 0.00016 |
| 2022 | Yolo (SV) | T6 Public | Dsl | 1,724.85 | 0.01306 | 0.00018 | 0.00033 | 0.00017 | 2.42192 | 0.00001 |
| 2022 | Yolo (SV) | T6 CAIRP Small | Dsl | 2,678.62 | 0.00463 | 0.00013 | 0.00043 | 0.00018 | 3.51459 | 0.00001 |
| 2022 | Yolo (SV) | T6 CAIRP Heavy | Dsl | 872.59 | 0.00197 | 0.00005 | 0.00014 | 0.00006 | 1.13738 | 0.00000 |
| 2022 | Yolo (SV) | T6 Instate Construction Small | Dsl | 23,582.60 | 0.04818 | 0.00134 | 0.00382 | 0.00165 | 31.43290 | 0.00006 |
| 2022 | Yolo (SV) | T6 Instate Construction Heavy | Dsl | 3,610.95 | 0.01249 | 0.00033 | 0.00062 | 0.00029 | 4.86527 | 0.00002 |
| 2022 | Yolo (SV) | T6 Instate Small | Dsl | 270,069.61 | 0.47151 | 0.01342 | 0.04340 | 0.01851 | 357.10175 | 0.00062 |
| 2022 | Yolo (SV) | T6 Instate Heavy | Dsl | 103,003.65 | 0.25278 | 0.00696 | 0.01688 | 0.00737 | 135.47645 | 0.00032 |
| 2022 | Yolo (SV) | T6 OOS Small | Dsl | 1,534.75 | 0.00265 | 0.00007 | 0.00025 | 0.00010 | 2.01373 | 0.00000 |
| 2022 | Yolo (SV) | T6 OOS Heavy | Dsl | 499.96 | 0.00114 | 0.00003 | 0.00008 | 0.00003 | 0.65226 | 0.00000 |
| 2022 | Yolo (SV) | T6 Utility | Dsl | 879.89 | 0.00222 | 0.00003 | 0.00014 | 0.00006 | 1.20640 | 0.00000 |
| 2022 | Yolo (SV) | T7 Ag | Dsl | 1,681.93 | 0.02031 | 0.00194 | 0.00107 | 0.00092 | 3.54052 | 0.00009 |
| 2022 | Yolo (SV) | T7 Public | Dsl | 7,063.67 | 0.07692 | 0.00146 | 0.00104 | 0.00054 | 15.98093 | 0.00007 |
| 2022 | Yolo (SV) | PTO | Dsl | 11,979.44 | 0.06929 | 0.00351 | 0.00021 | 0.00020 | 26.10690 | 0.00016 |
| 2022 | Yolo (SV) | T7 CAIRP | Dsl | 54,906.10 | 0.22135 | 0.00784 | 0.00661 | 0.00281 | 100.47433 | 0.00036 |
| 2022 | Yolo (SV) | T7 CAIRP Construction | Dsl | 2,561.58 | 0.00989 | 0.00036 | 0.00031 | 0.00014 | 4.69467 | 0.00002 |
| 2022 | Yolo (SV) | T7 Utility | Dsl | 185.93 | 0.00076 | 0.00002 | 0.00002 | 0.00001 | 0.39421 | 0.00000 |
| 2022 | Yolo (SV) | T7 NNOOS | Dsl | 68,083.63 | 0.14979 | 0.00650 | 0.00776 | 0.00307 | 117.96233 | 0.00030 |
| 2022 | Yolo (SV) | T7 NOOS | Dsl | 21,687.89 | 0.08973 | 0.00317 | 0.00260 | 0.00110 | 40.47595 | 0.00015 |
| 2022 | Yolo (SV) | T7 Other Port | Dsl | 678.95 | 0.00368 | 0.00012 | 0.00009 | 0.00004 | 1.24511 | 0.00001 |
| 2022 | Yolo (SV) | T7 POAK | Dsl | 1,411.06 | 0.00927 | 0.00030 | 0.00019 | 0.00009 | 2.67750 | 0.00001 |
| 2022 | Yolo (SV) | T7 Single | Dsl | 60,330.83 | 0.20673 | 0.00636 | 0.00730 | 0.00312 | 107.38553 | 0.00030 |
| 2022 | Yolo (SV) | T7 Single Construction | Dsl | 6,626.47 | 0.02786 | 0.00077 | 0.00082 | 0.00036 | 12.02087 | 0.00004 |
| 2022 | Yolo (SV) | T7 Tractor | Dsl | 36,921.80 | 0.18340 | 0.00598 | 0.00469 | 0.00213 | 65.58803 | 0.00028 |
| 2022 | Yolo (SV) | T7 Tractor Construction | Dsl | 4,940.52 | 0.02621 | 0.00079 | 0.00065 | 0.00030 | 9.02993 | 0.00004 |
| 2022 | Yolo (SV) | T7 SWCV | Dsl | 10,125.41 | 0.08829 | 0.00086 | 0.00123 | 0.00053 | 49.88790 | 0.00124 |
| 2022 | Yolo (SV) | SBUS | Dsl | 3,257.22 | 0.02712 | 0.00048 | 0.00285 | 0.00128 | 4.99240 | 0.00002 |
| 2022 | Yolo (SV) | Motor Coach | Dsl | 726.02 | 0.00357 | 0.00013 | 0.00013 | 0.00006 | 1.42148 | 0.00001 |
| 2022 | Yolo (SV) | All Other Buses | Dsl | 871.90 | 0.00331 | 0.00010 | 0.00015 | 0.00007 | 1.20069 | 0.00000 |

Weighted Average Emission Factors

| | | | | g/mi | | | | | |
|---------------|------|--------------|--|----------|----------|------------------|-------------------|-----------------|-----------------|
| Calendar Year | fuel | VMT | | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| 2022 | Gas | 5,979,764.32 | | 2.01E-01 | 2.85E-01 | 1.17E-01 | 4.92E-02 | 7.55E+02 | 1.53E-02 |
| 2022 | Dsl | 897,634.01 | | 2.69E-01 | 9.39E-03 | 1.87E-02 | 8.23E-03 | 1.59E+02 | 7.06E-04 |
| 2022 | Elec | 151424 | | NA | 2.37E-04 | 7.44E-03 | 2.95E-03 | NA | NA |

NA: Not Available

Mobile Source Emissions - EMFAC2014 Emission Factors

| Calendar | | | | | g/mi | | | | | |
|----------|-----------|-------------------------------|-----------|--------------|---------|---------|------------------|-------------------|-----------------|-----------------|
| Year | Sub_Area | Vehicle Class | Fuel Type | VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ |
| 2050 | Yolo (SV) | LDA | Gas | 4,001,390.07 | 0.10324 | 0.21130 | 0.20097 | 0.08159 | 869.37183 | 0.00652 |
| 2050 | Yolo (SV) | LDT1 | Gas | 316,976.59 | 0.00848 | 0.01639 | 0.01591 | 0.00646 | 72.42332 | 0.00054 |
| 2050 | Yolo (SV) | LDT2 | Gas | 1,993,070.15 | 0.05969 | 0.11085 | 0.10004 | 0.04058 | 531.25859 | 0.00409 |
| 2050 | Yolo (SV) | MDV | Gas | 900,595.43 | 0.02947 | 0.07887 | 0.04525 | 0.01838 | 312.34863 | 0.00207 |
| 2050 | Yolo (SV) | LHD1 | Gas | 28,414.98 | 0.01061 | 0.00696 | 0.00273 | 0.00117 | 25.35475 | 0.00025 |
| 2050 | Yolo (SV) | LHD2 | Gas | 10,813.21 | 0.00309 | 0.00182 | 0.00119 | 0.00051 | 10.79342 | 0.00008 |
| 2050 | Yolo (SV) | T6TS | Gas | 14,164.81 | 0.00606 | 0.00463 | 0.00225 | 0.00095 | 19.74080 | 0.00034 |
| 2050 | Yolo (SV) | T7IS | Gas | 1,898.81 | 0.00766 | 0.00103 | 0.00017 | 0.00007 | 3.40501 | 0.00029 |
| 2050 | Yolo (SV) | UBUS | Gas | 5,474.43 | 0.00279 | 0.00064 | 0.00087 | 0.00037 | 9.77167 | 0.00008 |
| 2050 | Yolo (SV) | SBUS | Gas | 2,236.80 | 0.00047 | 0.00078 | 0.00186 | 0.00080 | 1.70688 | 0.00021 |
| 2050 | Yolo (SV) | OBUS | Gas | 7,543.26 | 0.00285 | 0.00179 | 0.00120 | 0.00050 | 10.37399 | 0.00014 |
| 2050 | Yolo (SV) | MCY | Gas | 47,318.12 | 0.06489 | 0.21213 | 0.00099 | 0.00048 | 9.71201 | 0.02592 |
| 2050 | Yolo (SV) | MH | Gas | 3,667.57 | 0.00045 | 0.00010 | 0.00058 | 0.00024 | 4.90633 | 0.00002 |
| 2050 | Yolo (SV) | LDA | Elec | 741,196.85 | NA | 0.00169 | 0.03656 | 0.01450 | NA | NA |
| 2050 | Yolo (SV) | LDT1 | Elec | 144.10 | NA | 0.00000 | 0.00001 | 0.00000 | NA | NA |
| 2050 | Yolo (SV) | LDA | Dsl | 55,820.25 | 0.00044 | 0.00021 | 0.00279 | 0.00113 | 11.34296 | 0.00001 |
| 2050 | Yolo (SV) | LDT1 | Dsl | 176.92 | 0.00001 | 0.00000 | 0.00001 | 0.00000 | 0.03808 | 0.00000 |
| 2050 | Yolo (SV) | LDT2 | Dsl | 4,389.79 | 0.00012 | 0.00005 | 0.00024 | 0.00010 | 1.09713 | 0.00000 |
| 2050 | Yolo (SV) | MDV | Dsl | 25,848.51 | 0.00022 | 0.00011 | 0.00130 | 0.00053 | 8.42630 | 0.00000 |
| 2050 | Yolo (SV) | LHD1 | Dsl | 53,324.93 | 0.00892 | 0.00749 | 0.00567 | 0.00255 | 30.34519 | 0.00035 |
| 2050 | Yolo (SV) | LHD2 | Dsl | 26,708.69 | 0.00288 | 0.00365 | 0.00325 | 0.00147 | 17.02031 | 0.00017 |
| 2050 | Yolo (SV) | UBUS | Dsl | 5,474.25 | 0.00507 | 0.00014 | 0.00517 | 0.00221 | 11.34753 | 0.00738 |
| 2050 | Yolo (SV) | MH | Dsl | 1,030.50 | 0.00281 | 0.00008 | 0.00019 | 0.00009 | 1.14548 | 0.00000 |
| 2050 | Yolo (SV) | T6 Ag | Dsl | 5,496.94 | 0.01980 | 0.00031 | 0.00088 | 0.00038 | 7.28444 | 0.00001 |
| 2050 | Yolo (SV) | T6 Public | Dsl | 861.79 | 0.00240 | 0.00004 | 0.00014 | 0.00006 | 1.13646 | 0.00000 |
| 2050 | Yolo (SV) | T6 CAIRP Small | Dsl | 3,796.48 | 0.00655 | 0.00017 | 0.00061 | 0.00026 | 4.89021 | 0.00001 |
| 2050 | Yolo (SV) | T6 CAIRP Heavy | Dsl | 1,236.74 | 0.00241 | 0.00006 | 0.00020 | 0.00008 | 1.56362 | 0.00000 |
| 2050 | Yolo (SV) | T6 Instate Construction Small | Dsl | 42,078.33 | 0.07992 | 0.00204 | 0.00674 | 0.00286 | 54.28547 | 0.00009 |
| 2050 | Yolo (SV) | T6 Instate Construction Heavy | Dsl | 6,443.00 | 0.01134 | 0.00034 | 0.00103 | 0.00044 | 8.26948 | 0.00002 |
| 2050 | Yolo (SV) | T6 Instate Small | Dsl | 460,520.11 | 0.84322 | 0.02214 | 0.07377 | 0.03133 | 593.42288 | 0.00103 |
| 2050 | Yolo (SV) | T6 Instate Heavy | Dsl | 182,644.24 | 0.34207 | 0.00907 | 0.02929 | 0.01245 | 230.52638 | 0.00042 |
| 2050 | Yolo (SV) | T6 OOS Small | Dsl | 2,175.24 | 0.00375 | 0.00010 | 0.00035 | 0.00015 | 2.80191 | 0.00000 |
| 2050 | Yolo (SV) | T6 OOS Heavy | Dsl | 708.60 | 0.00138 | 0.00003 | 0.00011 | 0.00005 | 0.89590 | 0.00000 |
| 2050 | Yolo (SV) | T6 Utility | Dsl | 1,104.41 | 0.00269 | 0.00004 | 0.00018 | 0.00007 | 1.44783 | 0.00000 |
| 2050 | Yolo (SV) | T7 Ag | Dsl | 1,681.93 | 0.01195 | 0.00022 | 0.00019 | 0.00008 | 3.48800 | 0.00001 |
| 2050 | Yolo (SV) | T7 Public | Dsl | 7,193.06 | 0.03193 | 0.00076 | 0.00082 | 0.00032 | 14.17916 | 0.00004 |
| 2050 | Yolo (SV) | PTO | Dsl | 21,776.03 | 0.09702 | 0.00471 | 0.00014 | 0.00014 | 43.49969 | 0.00022 |
| 2050 | Yolo (SV) | T7 CAIRP | Dsl | 77,819.74 | 0.15708 | 0.00741 | 0.00886 | 0.00349 | 131.45499 | 0.00034 |
| 2050 | Yolo (SV) | T7 CAIRP Construction | Dsl | 4,570.62 | 0.01003 | 0.00046 | 0.00052 | 0.00021 | 7.98110 | 0.00002 |
| 2050 | Yolo (SV) | T7 Utility | Dsl | 233.37 | 0.00089 | 0.00002 | 0.00003 | 0.00001 | 0.45114 | 0.00000 |
| 2050 | Yolo (SV) | T7 NNOOS | Dsl | 96,496.57 | 0.18049 | 0.00848 | 0.01089 | 0.00425 | 166.68958 | 0.00039 |
| 2050 | Yolo (SV) | T7 NOOS | Dsl | 30,738.77 | 0.06435 | 0.00300 | 0.00350 | 0.00138 | 52.75052 | 0.00014 |
| 2050 | Yolo (SV) | T7 Other Port | Dsl | 1,088.54 | 0.00224 | 0.00010 | 0.00012 | 0.00005 | 1.77724 | 0.00000 |
| 2050 | Yolo (SV) | T7 POAK | Dsl | 3,811.68 | 0.00846 | 0.00037 | 0.00044 | 0.00017 | 6.30976 | 0.00002 |
| 2050 | Yolo (SV) | T7 Single | Dsl | 109,668.44 | 0.18384 | 0.00821 | 0.01234 | 0.00479 | 181.16963 | 0.00038 |
| 2050 | Yolo (SV) | T7 Single Construction | Dsl | 11,823.58 | 0.02168 | 0.00090 | 0.00133 | 0.00052 | 19.67548 | 0.00004 |
| 2050 | Yolo (SV) | T7 Tractor | Dsl | 53,145.31 | 0.10550 | 0.00476 | 0.00605 | 0.00239 | 85.79966 | 0.00022 |
| 2050 | Yolo (SV) | T7 Tractor Construction | Dsl | 8,815.35 | 0.02073 | 0.00084 | 0.00101 | 0.00040 | 14.71247 | 0.00004 |
| 2050 | Yolo (SV) | T7 SWCV | Dsl | 14,156.25 | 0.03081 | 0.00057 | 0.00164 | 0.00067 | 64.25181 | 0.00003 |
| 2050 | Yolo (SV) | SBUS | Dsl | 3,203.16 | 0.00857 | 0.00021 | 0.00268 | 0.00115 | 4.71380 | 0.00001 |
| 2050 | Yolo (SV) | Motor Coach | Dsl | 1,029.01 | 0.00255 | 0.00010 | 0.00017 | 0.00007 | 1.91153 | 0.00000 |
| 2050 | Yolo (SV) | All Other Buses | Dsl | 1,022.06 | 0.00195 | 0.00005 | 0.00016 | 0.00007 | 1.31832 | 0.00000 |

Weighted Average Emission Factors

| Calendar Year | | g/mi | | | | | | | | |
|---------------|------|--------------|----------|----------|------------------|-------------------|-----------------|-----------------|--|--|
| | fuel | VMT | NOx | ROG | PM ₁₀ | PM _{2.5} | CO ₂ | CH ₄ | | |
| 2050 | Gas | 7,333,564.22 | 7.70E-02 | 1.57E-01 | 1.43E-01 | 5.81E-02 | 6.60E+02 | 5.12E-03 | | |
| 2050 | Dsl | 1,328,113.20 | 3.88E-01 | 1.15E-02 | 3.30E-02 | 1.39E-02 | 2.83E+02 | 5.63E-04 | | |
| 2050 | Elec | 741341 | NA | 1.69E-03 | 3.66E-02 | 1.45E-02 | NA | NA | | |

NA: Not Available