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## **APPENDIX D**

### EMFAC RESULTS

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Winchester Blvd Mixed Use  
Existing Fuel Demand

| Area      | Sub-Area         | Cal. Year | Season | Veh. Tech                           | EMFAC2007 Category | VMT    | Fuel GAS | Fuel DSL |
|-----------|------------------|-----------|--------|-------------------------------------|--------------------|--------|----------|----------|
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | All Vehicles                        | All Vehicles       | 535.6  | 0.0191   | 0.0033   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | ALL OTHER BUSES - DSL               | OBUS - DSL         | 0.4978 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDA - DSL                           | LDA - DSL          | 2.80   |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDA - GAS                           | LDA - GAS          | 310.8  | 0.0099   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDT1 - DSL                          | LDT1 - DSL         | 0.0093 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDT1 - GAS                          | LDT1 - GAS         | 27.9   | 0.0010   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDT2 - DSL                          | LDT2 - DSL         | 0.6397 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LDT2 - GAS                          | LDT2 - GAS         | 97.6   | 0.0041   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LHD1 - DSL                          | LHDT1 - DSL        | 4.59   |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LHD1 - GAS                          | LHDT1 - GAS        | 6.73   | 0.0008   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LHD2 - DSL                          | LHDT2 - DSL        | 1.80   |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | LHD2 - GAS                          | LHDT2 - GAS        | 0.8912 | 0.0001   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MCY - GAS                           | MCY - GAS          | 2.77   | 0.0001   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MDV - DSL                           | MDV - DSL          | 1.40   |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MDV - GAS                           | MDV - GAS          | 56.6   | 0.0029   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MH - DSL                            | MH - DSL           | 0.1083 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MH - GAS                            | MH - GAS           | 0.3089 | 0.0001   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | MOTOR COACH - DSL                   | OBUS - DSL         | 0.1435 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | OBUS - GAS                          | OBUS - GAS         | 0.2948 | 0.0001   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | PTO - DSL                           | HHDT - DSL         | 0.1709 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | SBUS - DSL                          | SBUS - DSL         | 0.3731 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | SBUS - GAS                          | SBUS - GAS         | 0.1231 | 0.0000   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 AG - DSL                         | MHDT - DSL         | 0.0002 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 CAIRP HEAVY - DSL                | MHDT - DSL         | 0.0823 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 CAIRP SMALL - DSL                | MHDT - DSL         | 0.0111 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 INSTATE CONSTRUCTION HEAVY - DSL | MHDT - DSL         | 0.1590 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 INSTATE CONSTRUCTION SMALL - DSL | MHDT - DSL         | 0.3626 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 INSTATE HEAVY - DSL              | MHDT - DSL         | 1.91   |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 INSTATE SMALL - DSL              | MHDT - DSL         | 3.51   |          | 0.0004   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 OOS HEAVY - DSL                  | MHDT - DSL         | 0.0467 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 OOS SMALL - DSL                  | MHDT - DSL         | 0.0063 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 PUBLIC - DSL                     | MHDT - DSL         | 0.1576 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6 UTILITY - DSL                    | MHDT - DSL         | 0.0268 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T6TS - GAS                          | MHDT - GAS         | 0.8058 | 0.0002   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 AG - DSL                         | HHDT - DSL         | 0.0000 |          | 0        |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 CAIRP - DSL                      | HHDT - DSL         | 1.83   |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 CAIRP CONSTRUCTION - DSL         | HHDT - DSL         | 0.1142 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 NNOOS - DSL                      | HHDT - DSL         | 2.24   |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 NOOS - DSL                       | HHDT - DSL         | 0.7204 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 OTHER PORT - DSL                 | HHDT - DSL         | 0.1894 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 POAK - DSL                       | HHDT - DSL         | 1.02   |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 POLA - DSL                       | HHDT - DSL         | 0.0000 |          | 0        |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 PUBLIC - DSL                     | HHDT - DSL         | 0.1417 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 SINGLE - DSL                     | HHDT - DSL         | 0.8608 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 SINGLE CONSTRUCTION - DSL        | HHDT - DSL         | 0.2833 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 SWCV - DSL                       | HHDT - DSL         | 0.3253 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 TRACTOR - DSL                    | HHDT - DSL         | 3.26   |          | 0.0005   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 TRACTOR CONSTRUCTION - DSL       | HHDT - DSL         | 0.2337 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7 UTILITY - DSL                    | HHDT - DSL         | 0.0148 |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | T7IS - GAS                          | HHDT - GAS         | 0.0054 | 0.0000   |          |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | UBUS - DSL                          | UBUS - DSL         | 0.6851 |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2020      | Annual | UBUS - GAS                          | UBUS - GAS         | 0.0123 | 0.0000   |          |

Thousands of gallons of fuel per day = 0.0225  
Gallons of fuel per year = 1000 x 365 x 0.0225 8,203.75

Winchester Blvd Mixed Use  
Project Fuel Demand

| Area      | Sub-Area         | Cal. Year | Season | Veh Tech                            | EMFAC2007 Category | VMT     | Fuel GAS | Fuel DSL |
|-----------|------------------|-----------|--------|-------------------------------------|--------------------|---------|----------|----------|
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | All Vehicles                        | All Vehicles       | 3,245.7 | 0.1020   | 0.0191   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | ALL OTHER BUSES - DSL               | OBUS - DSL         | 2.69    |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDA - DSL                           | LDA - DSL          | 19.7    |          | 0.0004   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDA - GAS                           | LDA - GAS          | 1,901.6 | 0.0535   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDT1 - DSL                          | LDT1 - DSL         | 0.0390  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDT1 - GAS                          | LDT1 - GAS         | 172.0   | 0.0058   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDT2 - DSL                          | LDT2 - DSL         | 4.66    |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LDT2 - GAS                          | LDT2 - GAS         | 568.6   | 0.0206   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LHD1 - DSL                          | LHDT1 - DSL        | 30.3    |          | 0.0016   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LHD1 - GAS                          | LHDT1 - GAS        | 37.8    | 0.0044   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LHD2 - DSL                          | LHDT2 - DSL        | 11.9    |          | 0.0007   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | LHD2 - GAS                          | LHDT2 - GAS        | 5.30    | 0.0007   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MCY - GAS                           | MCY - GAS          | 16.5    | 0.0004   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MDV - DSL                           | MDV - DSL          | 10.0    |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MDV - GAS                           | MDV - GAS          | 336.4   | 0.0148   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MH - DSL                            | MH - DSL           | 0.6818  |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MH - GAS                            | MH - GAS           | 1.76    | 0.0003   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | MOTOR COACH - DSL                   | OBUS - DSL         | 0.8934  |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | OBUS - GAS                          | OBUS - GAS         | 1.57    | 0.0003   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | PTO - DSL                           | HHDT - DSL         | 0.9264  |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | SBUS - DSL                          | SBUS - DSL         | 2.15    |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | SBUS - GAS                          | SBUS - GAS         | 0.8386  | 0.0001   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 AG - DSL                         | MHDT - DSL         | 0.0008  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 CAIRP HEAVY - DSL                | MHDT - DSL         | 0.5194  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 CAIRP SMALL - DSL                | MHDT - DSL         | 0.0690  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 INSTATE CONSTRUCTION HEAVY - DSL | MHDT - DSL         | 1.30    |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 INSTATE CONSTRUCTION SMALL - DSL | MHDT - DSL         | 2.96    |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 INSTATE HEAVY - DSL              | MHDT - DSL         | 12.2    |          | 0.0011   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 INSTATE SMALL - DSL              | MHDT - DSL         | 19.8    |          | 0.0020   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 OOS HEAVY - DSL                  | MHDT - DSL         | 0.2923  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 OOS SMALL - DSL                  | MHDT - DSL         | 0.0389  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 PUBLIC - DSL                     | MHDT - DSL         | 0.9624  |          | 0.0001   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6 UTILITY - DSL                    | MHDT - DSL         | 0.1607  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T6TS - GAS                          | MHDT - GAS         | 5.49    | 0.0011   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 AG - DSL                         | HHDT - DSL         | 0.0000  |          | 0        |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 CAIRP - DSL                      | HHDT - DSL         | 11.4    |          | 0.0016   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 CAIRP CONSTRUCTION - DSL         | HHDT - DSL         | 0.9318  |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 NNOOS - DSL                      | HHDT - DSL         | 13.9    |          | 0.0018   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 NOOS - DSL                       | HHDT - DSL         | 4.49    |          | 0.0006   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 OTHER PORT - DSL                 | HHDT - DSL         | 1.26    |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 POAK - DSL                       | HHDT - DSL         | 7.38    |          | 0.0012   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 POLA - DSL                       | HHDT - DSL         | 0.0000  |          | 0        |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 PUBLIC - DSL                     | HHDT - DSL         | 0.7847  |          | 0.0002   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 SINGLE - DSL                     | HHDT - DSL         | 4.67    |          | 0.0007   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 SINGLE CONSTRUCTION - DSL        | HHDT - DSL         | 2.31    |          | 0.0004   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 SWCV - DSL                       | HHDT - DSL         | 1.76    |          | 0.0007   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 TRACTOR - DSL                    | HHDT - DSL         | 20.7    |          | 0.0026   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 TRACTOR CONSTRUCTION - DSL       | HHDT - DSL         | 1.91    |          | 0.0003   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7 UTILITY - DSL                    | HHDT - DSL         | 0.0886  |          | 0.0000   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | T7IS - GAS                          | HHDT - GAS         | 0.0402  | 0.0000   |          |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | UBUS - DSL                          | UBUS - DSL         | 3.98    |          | 0.0007   |
| Sub-Areas | Santa Clara (SF) | 2024      | Annual | UBUS - GAS                          | UBUS - GAS         | 0.0717  | 0.0000   |          |

Thousands of Gallons of fuel per day = 0.1212  
Gallons of fuel per year = 1000 x 365 x 0.1212 = 44,232.42