APPENDIX C
AIR QUALITY ANALYSIS

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Intersection Selections

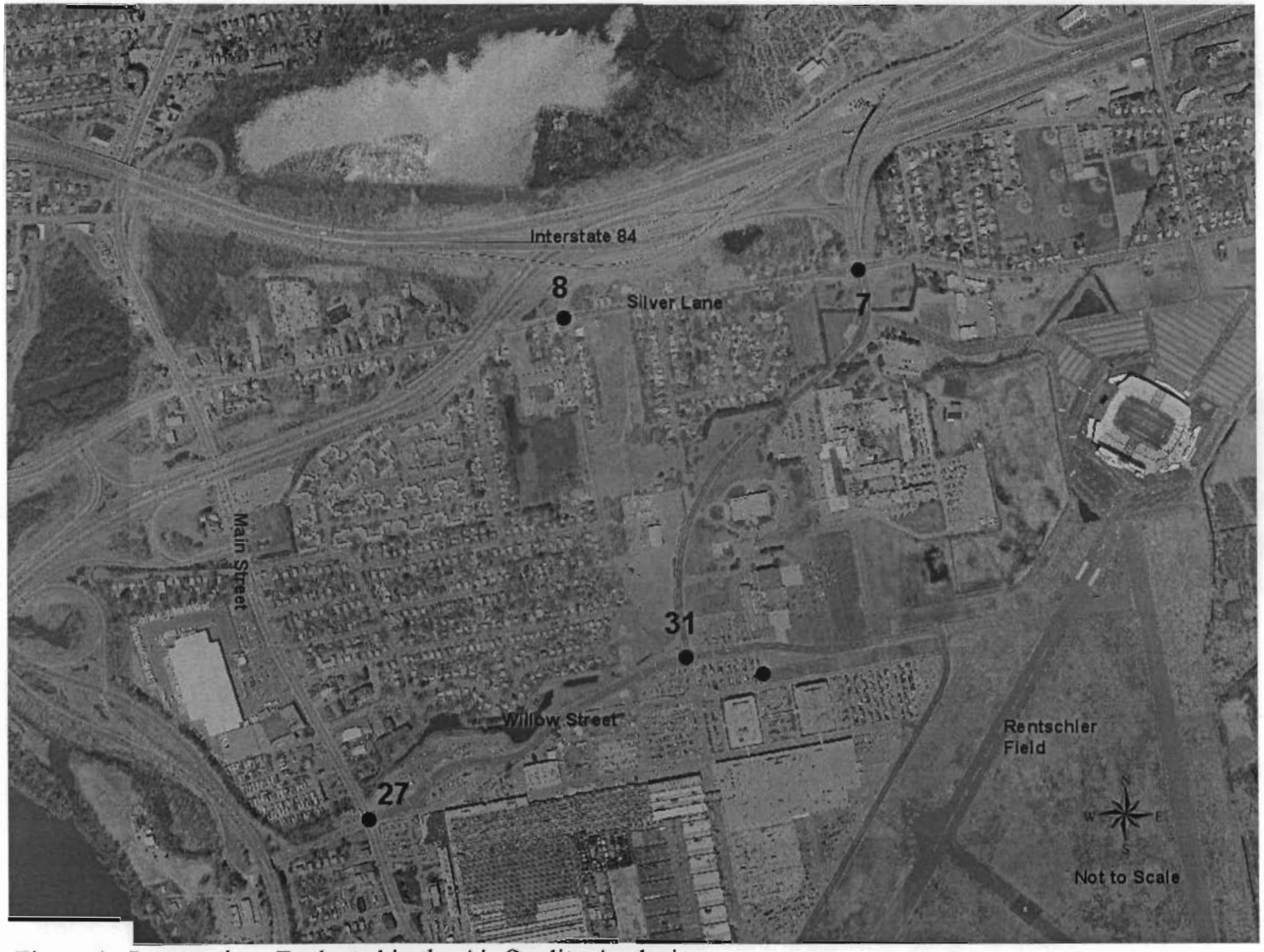

Figure 1. Intersections Evaluated in the Air Quality Analysis

MOBILE6.2 Input Files

2008 Intersection Analysis Winter - RFIAW08.i51
2020 Intersection Analysis Winter - RFIAW20.i51

```
MOBILE6 INPUT FILE :
*
* Rentschler Field Access Road Mobile 6.2 2008 Intersection Analysis 07/28/2006  RFIAW08.i51
*
REPORT FILE       : c:/apps/Mobile62/Run/RentFld/Inter/RFIAW08.O61
SPREADSHEET       :
POLLUTANTS        : CO

RUN DATA          : Rentschler Field Access Road, MOBILE 6.2 2008 Intersection Analysis, Winter, CO 07/28/2006
MIN/MAX TEMP      : 41.0 41.0
FUEL PROGRAM      : 2 N
FUEL RVP          : 13.0
NO REFUELING      :
94+ LDG IMP       : NLEVNE.D
REG DISTRIBUTION  : RentFld/CTReg02.D

VMT FRACTIONS     :
0.4240    0.0942    0.3136    0.0966    0.0444    0.0085    0.0008    0.0007
0.0005    0.0019    0.0022    0.0024    0.0087    0.0004    0.0002    0.0009


DIESEL FRACTIONS  :
0.0009 0.0006 0.0001 0.0003 0.0006 0.0013 0.0004 0.0004 0.0001 0.0027
0.0032 0.0097 0.0162 0.0241 0.0510 0.0706 0.0390 0.0269 0.0114 0.0093
0.0137 0.0155 0.0067 0.0067 0.0067
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007
0.0033 0.0048 0.0120 0.0223 0.0656 0.0616 0.0439 0.0316 0.0259 0.0000
0.0187 0.1038 0.1170 0.1170 0.1170
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007
0.0033 0.0048 0.0120 0.0223 0.0656 0.0616 0.0439 0.0316 0.0259 0.0000
0.0187 0.1038 0.1170 0.1170 0.1170
0.0126 0.0115 0.0111 0.0145 0.0115 0.0129 0.0096 0.0083 0.0072 0.0082
0.0124 0.0135 0.0169 0.0209 0.0256 0.0013 0.0006 0.0011 0.0001 0.0000
0.0000 0.0000 0.0001 0.0001 0.0001
0.0126 0.0115 0.0111 0.0145 0.0115 0.0129 0.0096 0.0083 0.0072 0.0082
0.0124 0.0135 0.0169 0.0209 0.0256 0.0013 0.0006 0.0011 0.0001 0.0000
0.0000 0.0000 0.0001 0.0001 0.0001
0.1998 0.2578 0.2515 0.3263 0.2784 0.2963 0.2384 0.2058 0.1756 0.1958
0.2726 0.2743 0.3004 0.2918 0.2859 0.0138 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
0.6774 0.7715 0.7910 0.8105 0.8068 0.8280 0.8477 0.7940 0.7488 0.7789
0.7842 0.6145 0.5139 0.5032 0.4277 0.0079 0.0000 0.0000 0.0001 0.0003
0.0010 0.0028 0.0248 0.0000 0.0000
0.8606 0.8473 0.8048 0.8331 0.7901 0.7316 0.7275 0.7158 0.5647 0.3178
0.2207 0.1968 0.1570 0.0738 0.0341 0.0414 0.0003 0.0000 0.0000 0.0000
```

0.0259 0.0078 0.0004 0.0090 0.0112
0.4647 0.4384 0.3670 0.4125 0.3462 0.2771 0.2730 0.2616 0.1543 0.0615
0.0383 0.0333 0.0255 0.0111 0.0049 0.0060 0.0000 0.0000 0.0000 0.0000
0.0037 0.0011 0.0001 0.0013 0.0016
0.6300 0.6078 0.5246 0.5767 0.5289 0.5788 0.5617 0.4537 0.4216 0.4734
0.4705 0.4525 0.4310 0.3569 0.3690 0.4413 0.3094 0.1679 0.1390 0.0808
0.0476 0.0365 0.0288 0.0274 0.0297
0.8563 0.8443 0.7943 0.8266 0.7972 0.8279 0.8177 0.7440 0.7184 0.7588
0.7567 0.7431 0.7261 0.6602 0.6717 0.7344 0.6107 0.4140 0.3610 0.2353
0.1489 0.1170 0.0940 0.0897 0.0966
0.9992 0.9989 0.9987 0.9989 0.9977 0.9984 0.9982 0.9979 0.9969 0.9978
0.9980 0.9979 0.9976 0.9969 0.9978 0.9982 0.9974 0.9965 0.9964 0.9949
0.9920 0.9936 0.9819 0.9812 0.9720
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000
0.9585 0.8857 0.8525 0.8795 0.9900 0.9105 0.8760 0.7710 0.7502 0.7345
0.6733 0.5155 0.3845 0.3238 0.3260 0.2639 0.0594 0.0460 0.0291 0.0240
0.0086 0.0087 0.0000 0.0000 0.0000

* I/M Data
I/M dESC FILE : RentFld/CTIM05.D
ANTI-TAMP PROG : 83 71 50 22222 21111111 1 12 096. 12111112

SCENARIO RECORD : 2.5 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 2.5 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 3 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 3 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 4 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 4 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 5 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 5 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 6 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008

AVERAGE SPEED : 6 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 7 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 7 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 8 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 8 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 9 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 9 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 10 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 10 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 11 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 11 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 12 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 12 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 13 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 13 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 14 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 14 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 15 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 15 ARTERIAL

EVALUATION MONTH : 1

SCENARIO RECORD : 16 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 16 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 17 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 17 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 18 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 18 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 19 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 19 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 20 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 20 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 21 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 21 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 22 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 22 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 23 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 23 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 24 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 24 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 25 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 25 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 26 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 26 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 27 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 27 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 28 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 28 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 29 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 29 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 30 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 30 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 31 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 31 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 32 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 32 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 33 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 33 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 34 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 34 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 35 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 35 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 36 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 36 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 37 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 37 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 38 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 38 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 39 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 39 ARTERIAL
EVALUATION MONTH : 1

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CALENDAR YEAR : 2008
AVERAGE SPEED : 40 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 41 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 41 ARTERIAL
EVALUATION MONTH : 1

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CALENDAR YEAR : 2008
AVERAGE SPEED : 42 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 43 mph 2008 ARTERIAL ONLY

CALENDAR YEAR : 2008
AVERAGE SPEED : 43 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 44 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 44 ARTERIAL
EVALUATION MONTH : 1

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CALENDAR YEAR : 2008
AVERAGE SPEED : 45 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 46 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 46 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 47 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 47 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 48 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 48 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 49 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 49 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 50 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 50 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 51 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 51 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 52 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008

AVERAGE SPEED : 52 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 53 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 53 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 54 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 54 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 55 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 55 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 56 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 56 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 57 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 57 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 58 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 58 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 59 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 59 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 60 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 60 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 61 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 61 ARTERIAL

EVALUATION MONTH : I

SCENARIO RECORD : 62 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 62 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 63 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 63 ARTERIAL
EVALUATION MONTH : I

SCENARIO RECORD : 64 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 64 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 65 mph 2008 ARTERIAL ONLY
CALENDAR YEAR : 2008
AVERAGE SPEED : 65 ARTERIAL
EVALUATION MONTH : 1

END OF RUN :

```
MOBILE6 INPUT FILE :
*
* Rentschler Field Access Road Mobile 6.2 2020 Intersection Analysis 07/28/2006  RFIAW20.i51
*
REPORT FILE       : c:/apps/Mobile62/Run/RentFld/Inter/RFIAW20.O61
SPREADSHEET       :
POLLUTANTS        : CO

RUN DATA          : Rentschler Field Access Road, MOBILE 6.2 2020 Intersection Analysis, Winter, CO 07/28/2006
MIN/MAX TEMP      : 41.0 41.0
FUEL PROGRAM      : 2 N
FUEL RVP          : 13.0
NO REFUELING      :
94+ LDG IMP       : NLEVNE.D
REG DISTRIBUTION  : RentFld/CTReg02.D

VMT FRACTIONS     :
0.3119    0.1134    0.3775    0.1163    0.0535    0.0085    0.0008    0.0007
0.0005    0.0019    0.0023    0.0025    0.0087    0.0004    0.0002    0.0009


DIESEL FRACTIONS  :
0.0009 0.0006 0.0001 0.0003 0.0006 0.0013 0.0004 0.0004 0.0001 0.0027
0.0032 0.0097 0.0162 0.0241 0.0510 0.0706 0.0390 0.0269 0.0114 0.0093
0.0137 0.0155 0.0067 0.0067 0.0067
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007
0.0033 0.0048 0.0120 0.0223 0.0656 0.0616 0.0439 0.0316 0.0259 0.0000
0.0187 0.1038 0.1170 0.1170 0.1170
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0007
0.0033 0.0048 0.0120 0.0223 0.0656 0.0616 0.0439 0.0316 0.0259 0.0000
0.0187 0.1038 0.1170 0.1170 0.1170
0.0126 0.0115 0.0111 0.0145 0.0115 0.0129 0.0096 0.0083 0.0072 0.0082
0.0124 0.0135 0.0169 0.0209 0.0256 0.0013 0.0006 0.0011 0.0001 0.0000
0.0000 0.0000 0.0001 0.0001 0.0001
0.0126 0.0115 0.0111 0.0145 0.0115 0.0129 0.0096 0.0083 0.0072 0.0082
0.0124 0.0135 0.0169 0.0209 0.0256 0.0013 0.0006 0.0011 0.0001 0.0000
0.0000 0.0000 0.0001 0.0001 0.0001
0.1998 0.2578 0.2515 0.3263 0.2784 0.2963 0.2384 0.2058 0.1756 0.1958
0.2726 0.2743 0.3004 0.2918 0.2859 0.0138 0.0000 0.0000 0.0000 0.0000
0.0000 0.0000 0.0000 0.0000 0.0000
0.6774 0.7715 0.7910 0.8105 0.8068 0.8280 0.8477 0.7940 0.7488 0.7789
0.7842 0.6145 0.5139 0.5032 0.4277 0.0079 0.0000 0.0000 0.0001 0.0003
0.0010 0.0028 0.0248 0.0000 0.0000
0.8606 0.8473 0.8048 0.8331 0.7901 0.7316 0.7275 0.7158 0.5647 0.3178
```

0.2207 0.1968 0.1570 0.0738 0.0341 0.0414 0.0003 0.0000 0.0000 0.0000
0.0259 0.0078 0.0004 0.0090 0.0112
0.4647 0.4384 0.3670 0.4125 0.3462 0.2771 0.2730 0.2616 0.1543 0.0615
0.0383 0.0333 0.0255 0.0111 0.0049 0.0060 0.0000 0.0000 0.0000 0.0000
0.0037 0.0011 0.0001 0.0013 0.0016
0.6300 0.6078 0.5246 0.5767 0.5289 0.5788 0.5617 0.4537 0.4216 0.4734
0.4705 0.4525 0.4310 0.3569 0.3690 0.4413 0.3094 0.1679 0.1390 0.0808
0.0476 0.0365 0.0288 0.0274 0.0297
0.8563 0.8443 0.7943 0.8266 0.7972 0.8279 0.8177 0.7440 0.7184 0.7588
0.7567 0.7431 0.7261 0.6602 0.6717 0.7344 0.6107 0.4140 0.3610 0.2353
0.1489 0.1170 0.0940 0.0897 0.0966
0.9992 0.9989 0.9987 0.9989 0.9977 0.9984 0.9982 0.9979 0.9969 0.9978
0.9980 0.9979 0.9976 0.9969 0.9978 0.9982 0.9974 0.9965 0.9964 0.9949
0.9920 0.9936 0.9819 0.9812 0.9720
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000 1.0000
1.0000 1.0000 1.0000 1.0000 1.0000
0.9585 0.8857 0.8525 0.8795 0.9900 0.9105 0.8760 0.7710 0.7502 0.7345
0.6733 0.5155 0.3845 0.3238 0.3260 0.2639 0.0594 0.0460 0.0291 0.0240
0.0086 0.0087 0.0000 0.0000 0.0000

* I/M Data
I/M dESC FILE : RentFld/CTIM05.D
ANTI-TAMP PROG : 83 71 50 22222 21111111 1 12 096. 12111112

SCENARIO RECORD : 2.5 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 2.5 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 3 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 3 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 4 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 4 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 5 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 5 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 6 mph 2020 ARTERIAL ONLY

CALENDAR YEAR : 2020
AVERAGE SPEED : 6 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 7 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 7 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 8 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 8 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 9 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 9 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 10 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 10 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 11 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 11 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 12 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 12 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 13 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 13 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 14 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 14 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 15 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020

AVERAGE SPEED : 15 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 16 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 16 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 17 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 17 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 18 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 18 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 19 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 19 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 20 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 20 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 21 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 21 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 22 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 22 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 23 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 23 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 24 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 24 ARTERIAL

EVALUATION MONTH : 1

SCENARIO RECORD : 25 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 25 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 26 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 26 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 27 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 27 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 28 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 28 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 29 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 29 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 30 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 30 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 31 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 31 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 32 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 32 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 33 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 33 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 34 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 34 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 35 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 35 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 36 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 36 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 37 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 37 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 38 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 38 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 39 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 39 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 40 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 40 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 41 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 41 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 42 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 42 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 43 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 43 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 44 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 44 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 45 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 45 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 46 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 46 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 47 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 47 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 48 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 48 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 49 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 49 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 50 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 50 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 51 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 51 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 52 mph 2020 ARTERIAL ONLY

CALENDAR YEAR : 2020
AVERAGE SPEED : 52 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 53 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 53 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 54 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 54 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 55 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 55 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 56 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 56 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 57 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 57 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 58 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 58 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 59 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 59 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 60 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 60 ARTERIAL
EVALUATION MONTH : 1

SCENARIO RECORD : 61 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020

AVERAGE SPEED : 61 ARTERIAL
EVALUATION MONTH : I

SCENARIO RECORD : 62 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 62 ARTERIAL
EVALUATION MONTH : I

SCENARIO RECORD : 63 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 63 ARTERIAL
EVALUATION MONTH : I

SCENARIO RECORD : 64 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 64 ARTERIAL
EVALUATION MONTH : I

SCENARIO RECORD : 65 mph 2020 ARTERIAL ONLY
CALENDAR YEAR : 2020
AVERAGE SPEED : 65 ARTERIAL
EVALUATION MONTH : I

END OF RUN :

MOBILE6.2 Output Files

2008 Intersection Analysis Winter - RFIAW08.o51
2020 Intersection Analysis Winter - RFIAW20.o51

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                                *
* Input file: C:/APPS/MOBILE62/RUN/RENTFLD/INTER/RFIAW (file 8, run 1).   *
*****************************************************************************
 M616 Comment:
        User has supplied post-1999 sulfur levels.
 M603 Comment:
        User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: RENTFLD/CTREG02.D
 M615 Comment:
        User supplied VMT mix.
 M614 Comment:
        User supplied diesel sale fractions.

* Reading I/M program description records from the following external
* data file: RENTFLD/CTIM05.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* ##########################
* 2.5 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 1.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  2.5
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
   data file: TECH12.D
 M 48 Warning:
```

there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4216	0.4065	0.1391		0.0082	0.0024	0.0032	0.0181	0.0009	1.0000
Composite Emission Factors (g/mi):										
Composite CO :	25.22	24.86	32.33	26.76	66.30	4.539	3.316	10.702	102.11	26.083

* ##########################
* 3 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 2.
* ##########################

M583 Warning:
The user supplied arterial average speed of 3.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M112 Warning:
Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb

```
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   22.45   22.28   28.70   23.92   61.86   4.304   3.147  10.046   88.49  23.301
 ---------------------------------------------------------------------------------------------------

* ##########################
* 4 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 3.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of  4.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
```

```
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :  18.98   19.06   24.16   20.36   56.31   4.010   2.936   9.227   71.45   19.824
 ---------------------------------------------------------------------------------------------------

* ##########################
* 5 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 4.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  5.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
        GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :  16.90   17.13   21.44   18.23   52.98   3.833   2.809   8.736   61.23   17.737
 ---------------------------------------------------------------------------------------------------

* ##########################
* 6 mph 2008 ARTERIAL ONLY
```

```
* File 8, Run 1, Scenario 5.
* ########################
 M583 Warning:
        The user supplied arterial average speed of  6.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
           Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   15.65    15.92    19.78    16.91    47.07    3.508    2.576    7.832    51.61   16.411
 ---------------------------------------------------------------------------------------------------------

* ########################
* 7 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 6.
* ########################
 M583 Warning:
        The user supplied arterial average speed of  7.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
```

```
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   14.75   15.06   18.59   15.96   42.85   3.276   2.410   7.186   44.73   15.464
 ---------------------------------------------------------------------------------------------------

* ##########################
* 8 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 7.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  8.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
```

```
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
       GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   14.08   14.41   17.71   15.25   39.68   3.102   2.285   6.702   39.58  14.753
 ---------------------------------------------------------------------------------------------------

* ##########################
* 9 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 8.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of  9.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
```

```
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391        0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   13.55   13.91   17.01   14.70   37.22   2.967   2.188   6.325   35.57   14.201
 ------------------------------------------------------------------------------------------------------

* ##########################
* 10 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 9.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 10.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391        0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   13.14   13.51   16.46   14.26   35.25   2.859   2.110   6.024   32.36   13.759
 ------------------------------------------------------------------------------------------------------

* ##########################
```

```
* 11 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 10.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 11.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:          <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :   12.84    13.21    16.07    13.94    32.39    2.695    1.992    5.566    29.81    13.426
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 12 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 11.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 12.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
```

```
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                  Month: Jan.
                Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.60   12.96   15.75   13.67   30.01   2.558   1.894   5.185   27.68   13.149
 ---------------------------------------------------------------------------------------------------

* ##########################
* 13 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 12.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 13.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                  Month: Jan.
                Altitude: Low
        Minimum Temperature: 41.0 (F)
```

```
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.40   12.75   15.47   13.45   28.00   2.442   1.810   4.863   25.89   12.914
 ---------------------------------------------------------------------------------------------------

* ##########################
* 14 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 13.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 14.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2008
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

```
   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:            <6000    >6000    (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   12.22    12.57    15.23    13.25    26.27    2.343    1.739    4.586    24.34   12.713
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 15 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 14.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 15.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:            <6000    >6000    (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   12.07    12.42    15.03    13.08    24.78    2.257    1.677    4.347    23.01   12.539
 ---------------------------------------------------------------------------------------------------------
```

```
*#########################
* 16 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 15.
*#########################
 M583 Warning:
        The user supplied arterial average speed of 16.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.93   12.28   14.85   12.94   23.18   2.161   1.609   4.081   21.93   12.383
 ---------------------------------------------------------------------------------------------------

*#########################
* 17 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 16.
*#########################
 M583 Warning:
        The user supplied arterial average speed of 17.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
```

```
M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.82   12.16   14.69   12.81   21.78   2.077   1.548   3.846   20.98   12.245
 ---------------------------------------------------------------------------------------------------

* ##########################
* 18 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 17.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 18.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
```

```
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.71   12.05   14.55   12.69   20.53   2.002   1.494   3.638   20.14   12.123
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 19 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 18.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 19.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

```
   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.62   11.96   14.43   12.59   19.41   1.935   1.446   3.451   19.38   12.013
 ---------------------------------------------------------------------------------------------------

* ##########################
* 20 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 19.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 20.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.53   11.87   14.31   12.49   18.40   1.874   1.403   3.283   18.70   11.915
 ---------------------------------------------------------------------------------------------------
```

```
* ##########################
* 21 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 20.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 21.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
          GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :   11.47    11.80    14.23    12.42    17.46    1.816    1.361    3.119    18.07   11.834
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 22 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 21.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 22.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
```

```
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
               Altitude: Low
       Minimum Temperature: 41.0 (F)
       Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program: Yes
         Evap I/M Program: Yes
            ATP Program: Yes
         Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   11.41   11.74   14.15   12.35   16.60   1.762   1.322   2.970   17.50   11.761
 ---------------------------------------------------------------------------------------------------

* ##########################
* 23 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 22.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 23.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
```

```
          Altitude: Low
     Minimum Temperature: 41.0 (F)
     Maximum Temperature: 41.0 (F)
      Absolute Humidity:  75. grains/lb
     Fuel Sulfur Content:  30. ppm

     Exhaust I/M Program: Yes
       Evap I/M Program: Yes
          ATP Program: Yes
       Reformulated Gas: Yes

  Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
       GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.35   11.68   14.07   12.29   15.82   1.713   1.287   2.834   16.98   11.694
 ---------------------------------------------------------------------------------------------------

* ##########################
* 24 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 23.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 24.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
          Calendar Year: 2008
               Month: Jan.
            Altitude: Low
     Minimum Temperature: 41.0 (F)
     Maximum Temperature: 41.0 (F)
      Absolute Humidity:  75. grains/lb
     Fuel Sulfur Content:  30. ppm

     Exhaust I/M Program: Yes
       Evap I/M Program: Yes
          ATP Program: Yes
```

Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4216	0.4065	0.1391		0.0082	0.0024	0.0032	0.0181	0.0009	1.0000
Composite Emission Factors (g/mi):										
Composite CO :	11.30	11.63	14.01	12.23	15.10	1.669	1.255	2.709	16.50	11.633

* ##########################
* 25 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 24.
* ##########################

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M112 Warning:
Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4216	0.4065	0.1391		0.0082	0.0024	0.0032	0.0181	0.0009	1.0000
Composite Emission Factors (g/mi):										
Composite CO :	11.25	11.58	13.94	12.18	14.44	1.627	1.225	2.595	16.06	11.576

```
-----------------------------------------------------------------------------------------------------------

*##########################
* 26 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 25.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 26.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   11.23   11.56   13.91   12.16   13.87   1.590   1.199   2.491   15.62   11.546
-----------------------------------------------------------------------------------------------------------

*##########################
* 27 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 26.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 27.0
        will be used for all hours of the day.  100% of VMT
```

```
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
       GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.21   11.54   13.88   12.13   13.34   1.556   1.174   2.395   15.21   11.517
 ---------------------------------------------------------------------------------------------------

*##########################
* 28 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 27.
*##########################
 M583 Warning:
       The user supplied arterial average speed of 28.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
```

```
                Month: Jan.
             Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program: Yes
        Evap I/M Program: Yes
           ATP Program: Yes
        Reformulated Gas: Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391        0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.19   11.52   13.85   12.11   12.85   1.524   1.151   2.306   14.83   11.491
 ---------------------------------------------------------------------------------------------------

* ##########################
* 29 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 28.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 29.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                Month: Jan.
             Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program: Yes
        Evap I/M Program: Yes
```

```
          ATP Program:  Yes
       Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   11.17    11.50    13.83    12.09    12.40    1.494    1.130    2.224    14.48   11.467
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 30 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 29.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 30.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
```

```
  Composite CO :   11.15    11.48    13.80    12.07    11.97    1.466    1.110    2.146    14.15   11.444
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 31 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 30.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 31.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2008
                   Month:  Jan.
                 Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :   11.17    11.50    13.83    12.09    11.63    1.443    1.093    2.081    13.83   11.457
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 32 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 31.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 32.0
```

```
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
       GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.18   11.51   13.85   12.11   11.32   1.421   1.077   2.020   13.53   11.468
 ---------------------------------------------------------------------------------------------------

* ##########################
* 33 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 32.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 33.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
```

```
          Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   11.19    11.53    13.87    12.13    11.02    1.400    1.062    1.963    13.25   11.479
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 34 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 33.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 34.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
          Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  Yes
```

```
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   11.21   11.54   13.89   12.14   10.75   1.381   1.049   1.909   12.98   11.490
 ---------------------------------------------------------------------------------------------------

* ##########################
* 35 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 34.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 35.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
  Composite CO :   11.22   11.56   13.91   12.16   10.48   1.363   1.035   1.858   12.73   11.500
 ---------------------------------------------------------------------------------------------------

* ##########################
* 36 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 35.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 36.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:   LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.30   11.64   14.00   12.24   10.31   1.349   1.025   1.819   12.52   11.576
 ---------------------------------------------------------------------------------------------------

* ##########################
* 37 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 36.
* ##########################
 M583 Warning:
```

```
      The user supplied arterial average speed of 37.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
       GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.37   11.71   14.10   12.32   10.15   1.336   1.016   1.782   12.31   11.647
 ---------------------------------------------------------------------------------------------------

*##########################
* 38 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 37.
*##########################
 M583 Warning:
      The user supplied arterial average speed of 38.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b
```

```
LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   11.44    11.79    14.19    12.40     9.99    1.323    1.007    1.748    12.11   11.715
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 39 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 38.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 39.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm
```

```
        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :   11.50   11.85   14.27   12.47    9.84   1.311   0.998   1.715   11.93   11.780
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 40 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 39.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 40.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                   Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
```

```
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.56   11.92   14.35   12.54    9.70   1.300   0.990   1.683   11.75   11.841
-----------------------------------------------------------------------------------------------------------

* ##########################
* 41 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 40.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 41.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2008
                   Month:  Jan.
                 Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   11.64   12.00   14.45   12.62    9.65   1.293   0.985   1.664   11.62   11.918
-----------------------------------------------------------------------------------------------------------

* ##########################
* 42 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 41.
* ##########################
```

```
M583 Warning:
      The user supplied arterial average speed of 42.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391        0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   11.71   12.07   14.54   12.70    9.61   1.287   0.981   1.646   11.49   11.991
 ------------------------------------------------------------------------------------------------------

* ########################
* 43 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 42.
* ########################
 M583 Warning:
      The user supplied arterial average speed of 43.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b
```

```
LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
          Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------ ------ ------ ------ ------ ------ ------ ------ ------ ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   11.77   12.15   14.63   12.78    9.57   1.280   0.976   1.628   11.36  12.060
 ---------------------------------------------------------------------------------------------------

* ##########################
* 44 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 43.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 44.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
          Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm
```

```
        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   11.84   12.22   14.71   12.85    9.53   1.274   0.972   1.612   11.24   12.126
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 45 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 44.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 45.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
```

```
 VMT Distribution:   0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   11.90    12.28    14.79    12.92     9.49    1.269    0.968    1.596    11.13   12.190
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 46 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 45.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 46.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
 VMT Distribution:   0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   11.97    12.36    14.89    13.01     9.55    1.268    0.967    1.593    11.08   12.267
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 47 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 46.
```

```
* ########################
 M583 Warning:
        The user supplied arterial average speed of 47.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:     LDGV   LDGT12   LDGT34     LDGT     HDGV     LDDV     LDDT     HDDV       MC   All Veh
          GVWR:            <6000    >6000    (All)
                   ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
 VMT Distribution:   0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   12.05    12.44    14.98    13.09     9.62    1.267    0.967    1.591    11.02   12.340
 ---------------------------------------------------------------------------------------------------------------

* ########################
* 48 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 47.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 48.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
```

there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4216	0.4065	0.1391		0.0082	0.0024	0.0032	0.0181	0.0009	1.0000
Composite Emission Factors (g/mi):										
Composite CO :	12.11	12.51	15.07	13.16	9.68	1.266	0.966	1.588	10.97	12.411

* ##########################
* 49 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 48.
* ##########################

M583 Warning:
The user supplied arterial average speed of 49.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M112 Warning:
Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2008
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb

```
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.18   12.58   15.16   13.23    9.74   1.265   0.965   1.586   10.92   12.479
 ---------------------------------------------------------------------------------------------------

* ##########################
* 50 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 49.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 50.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
```

```
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.24   12.64   15.24   13.31    9.80   1.264   0.965   1.584   10.88  12.544
 ---------------------------------------------------------------------------------------------------

*##########################
* 51 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 50.
*##########################
 M583 Warning:
       The user supplied arterial average speed of 51.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.31   12.72   15.33   13.39    9.99   1.269   0.968   1.597   10.88  12.622
 ---------------------------------------------------------------------------------------------------

*##########################
* 52 mph 2008 ARTERIAL ONLY
```

```
* File 8, Run 1, Scenario 51.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 52.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:     LDGV   LDGT12   LDGT34     LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
         GVWR:              <6000    >6000    (All)
                  ------   ------   ------   ------   ------   ------   ------   ------   ------   ------
 VMT Distribution:   0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   12.38    12.80    15.43    13.47    10.18    1.273    0.971    1.609    10.88   12.697
 ---------------------------------------------------------------------------------------------------------

*##########################
* 53 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 52.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 53.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
```

```
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.45   12.87   15.51   13.54   10.36   1.278   0.974   1.622   10.88   12.769
 ---------------------------------------------------------------------------------------------------

* ##########################
* 54 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 53.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 54.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
```

```
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:           <6000   >6000   (All)
             ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.52   12.94   15.60   13.62   10.53   1.282   0.977   1.633   10.88  12.838
 ---------------------------------------------------------------------------------------------------

* ##########################
* 55 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 54.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 55.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
              Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
```

```
        GVWR:          <6000    >6000    (All)
               ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.58   13.01   15.68   13.69   10.70   1.286   0.980   1.645   10.88   12.905
 ---------------------------------------------------------------------------------------------------

*##########################
* 56 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 55.
*##########################
 M583 Warning:
       The user supplied arterial average speed of 56.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:   LDGV   LDGT12  LDGT34   LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000    >6000    (All)
               ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.65   13.08   15.78   13.77   11.05   1.297   0.988   1.675   12.22   12.985
 ---------------------------------------------------------------------------------------------------

*##########################
```

```
* 57 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 56.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 57.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :   12.72   13.16   15.87   13.85   11.39   1.308   0.996   1.705   13.52   13.063
 ---------------------------------------------------------------------------------------------------

* ##########################
* 58 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 57.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 58.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
```

```
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.79   13.23   15.96   13.93   11.71   1.318   1.003   1.733   14.77  13.137
 ---------------------------------------------------------------------------------------------------

*##########################
* 59 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 58.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 59.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2008
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
```

```
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   12.86   13.30   16.04   14.00   12.03   1.328   1.010   1.761   15.98   13.210
 ---------------------------------------------------------------------------------------------------

* ##########################
* 60 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 59.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 60.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

```
   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.92   13.37   16.13   14.07   12.33   1.337   1.017   1.787   17.15   13.279
 ---------------------------------------------------------------------------------------------------

* ##########################
* 61 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 60.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 61.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391         0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.99   13.45   16.22   14.15   12.91   1.356   1.031   1.840   18.48   13.361
 ---------------------------------------------------------------------------------------------------
```

```
* ########################
* 62 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 61.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 62.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :   13.06    13.52    16.31    14.23    13.46    1.374    1.044    1.890    19.77   13.441
 ---------------------------------------------------------------------------------------------------------

* ########################
* 63 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 62.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 63.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
```

```
M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216   0.4065   0.1391          0.0082   0.0024   0.0032   0.0181   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   13.13    13.59    16.40    14.31    14.00    1.392    1.056    1.939    21.03   13.518
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 64 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 63.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 64.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2008
                  Month:  Jan.
                Altitude:  Low
```

```
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.4216  0.4065  0.1391          0.0082  0.0024  0.0032  0.0181  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   13.20   13.66   16.49   14.38   14.52   1.409   1.069   1.987   22.24   13.592
 ---------------------------------------------------------------------------------------------------

* # # # # # # # # # # # # # # # # # # # # # # # # # #
* 65 mph 2008 ARTERIAL ONLY
* File 8, Run 1, Scenario 64.
* # # # # # # # # # # # # # # # # # # # # # # # # # #
 M583 Warning:
        The user supplied arterial average speed of 65.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2008
                    Month:  Jan.
                 Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.4216	0.4065	0.1391		0.0082	0.0024	0.0032	0.0181	0.0009	1.0000

Composite Emission Factors (g/mi):

Composite CO :	13.26	13.73	16.57	14.45	15.03	1.426	1.081	2.033	23.42	13.664

```
*****************************************************************************
* MOBILE6.2.03 (24-Sep-2003)                                                *
* Input file: C:/APPS/MOBILE62/RUN/RENTFLD/INTER/RFIAW (file 9, run 1).  *
*****************************************************************************
 M616 Comment:
        User has supplied post-1999 sulfur levels.
 M603 Comment:
        User has disabled the calculation of REFUELING emissions.


* Reading 94+ LEV IMPLEMENTATION SCHEDULE from the following external
* data file: NLEVNE.D

* Reading Registration Distributions from the following external
* data file: RENTFLD/CTREG02.D
 M615 Comment:
        User supplied VMT mix.
 M614 Comment:
        User supplied diesel sale fractions.

* Reading I/M program description records from the following external
* data file: RENTFLD/CTIM05.D
*CT I/M PROGRAMS for all years 2005 and later (modified Jun 05 PMB/AG to reflect DMV info that 8,501-10,000 lb get TSI & GC (no OBD)
*Biennial OBDII I/M "tailpipe" test for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR. Program start year reflects OBD test that replaced the ASM
*Biennial OBDII evaporative "test" for post-MY1995 gasoline vehicles up to 8,500 lbs GVWR
*Biennial 2500/IDLE I/M tailpipe test for all HDGT 8,501 - 10,000 lbs GVWR (per above comment)
*Biennial GC evaporative "test" for all HDGT 8,501 - 10,000 lbs (per above comment)
*Biennial ASM I/M tailpipe test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* Reading ASM I/M Test Credits from ASMDATA.D
*Biennial Gas Cap evaporative test for pre-96 gasoline vehicles up to 8,500 lbs GVWR

* ##########################
* 2.5 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 1.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of  2.5
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
*** I/M credits for Tech1&2 vehicles were read from the following external
  data file: TECH12.D
 M 48 Warning:
```

```
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   17.81   16.52   18.91   17.13   38.78   2.481   1.284   1.928  102.11   17.230
 ---------------------------------------------------------------------------------------------------

* ##########################
* 3 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 2.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of  3.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
```

```
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101  0.4893  0.1675         0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   16.07   14.86   16.92   15.38   36.18   2.353   1.217   1.810   88.49   15.506
 ---------------------------------------------------------------------------------------------------

* ##########################
* 4 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 3.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  4.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
```

```
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   13.89   12.77   14.45   13.20   32.93   2.192   1.134   1.662   71.45   13.351
 ---------------------------------------------------------------------------------------------------

* ##########################
* 5 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 4.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  5.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
         Fuel Sulfur Content:  30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   12.58   11.53   12.96   11.89   30.98   2.096   1.084   1.574   61.23   12.058
 ---------------------------------------------------------------------------------------------------

* ##########################
* 6 mph 2020 ARTERIAL ONLY
```

```
* File 9, Run 1, Scenario 5.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  6.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
          GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :   11.77    10.73    12.02    11.06    27.53    1.919    0.992    1.411    51.61   11.220
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 7 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 6.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  7.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
```

```
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   11.19    10.16    11.35    10.47    25.06    1.792    0.927    1.295    44.73   10.621
-----------------------------------------------------------------------------------------------------------

* ##########################
* 8 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 7.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of  8.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
```

```
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
       GVWR:            <6000   >6000   (All)
            ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.76    9.74   10.84   10.02   23.21   1.697   0.878   1.207   39.58  10.172
 ---------------------------------------------------------------------------------------------------

*##########################
* 9 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 8.
*##########################
 M583 Warning:
       The user supplied arterial average speed of  9.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
```

```
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675        0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ----------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.42    9.41   10.45    9.67   21.77   1.624   0.840   1.139   35.57   9.823
 ----------------------------------------------------------------------------------------------------

* ##########################
* 10 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 9.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 10.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:   LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675        0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ----------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.15    9.14   10.13    9.40   20.61   1.565   0.809   1.085   32.36   9.544
 ----------------------------------------------------------------------------------------------------

* ##########################
```

```
* 11 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 10.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 11.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :    9.95    8.94    9.89    9.19   18.94   1.475   0.762   1.003   29.81   9.326
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 12 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 11.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 12.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
```

```
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675         0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.79    8.77    9.70    9.01   17.55   1.400   0.724   0.934   27.68   9.146
 ---------------------------------------------------------------------------------------------------

* ##########################
* 13 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 12.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 13.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
```

Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3101	0.4893	0.1675		0.0082	0.0018	0.0039	0.0183	0.0009	1.0000

Composite Emission Factors (g/mi):

Composite CO :	9.65	8.63	9.53	8.86	16.37	1.337	0.691	0.876	25.89	8.992

* ##########################
* 14 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 13.
* ##########################

M583 Warning:
The user supplied arterial average speed of 14.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M112 Warning:
Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2020
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

```
   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675        0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   9.53    8.51    9.38    8.73   15.37   1.283   0.663   0.826   24.34   8.861
 ---------------------------------------------------------------------------------------------------

* ##########################
* 15 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 14.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 15.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
         Fuel Sulfur Content:  30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675        0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   9.43    8.41    9.26    8.62   14.49   1.236   0.639   0.783   23.01   8.747
 ---------------------------------------------------------------------------------------------------
```

```
* ########################
* 16 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 15.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 16.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
          GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :    9.34     8.31     9.15     8.53    13.56    1.184    0.612    0.735    21.93    8.646
 ---------------------------------------------------------------------------------------------------------

* ########################
* 17 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 16.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 17.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
```

```
M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.26    8.23    9.05    8.44   12.74   1.138   0.588   0.693   20.98   8.557
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 18 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 17.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 18.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
```

```
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.19     8.16     8.97     8.37    12.00    1.097    0.567    0.655    20.14    8.478
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 19 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 18.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 19.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

```
   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.13     8.09     8.89     8.30    11.35    1.060    0.548    0.622    19.38    8.407
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 20 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 19.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 20.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.07     8.04     8.82     8.24    10.76    1.027    0.531    0.591    18.70    8.343
 ---------------------------------------------------------------------------------------------------------
```

```
* ########################
* 21 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 20.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 21.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
           Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :    9.02     7.99     8.76     8.19    10.21    0.995    0.514    0.562    18.07    8.288
 ---------------------------------------------------------------------------------------------------------

* ########################
* 22 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 21.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 22.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
```

```
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   8.98    7.94    8.71    8.14    9.71   0.966   0.499   0.535   17.50   8.239
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 23 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 22.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 23.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
```

```
            Altitude:  Low
      Minimum Temperature:  41.0 (F)
      Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  Yes
        Evap I/M Program:  Yes
           ATP Program:  Yes
        Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.94    7.90    8.66    8.10    9.25   0.940   0.485   0.511   16.98   8.193
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 24 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 23.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 24.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
              Altitude:  Low
      Minimum Temperature:  41.0 (F)
      Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
      Fuel Sulfur Content:   30. ppm

      Exhaust I/M Program:  Yes
        Evap I/M Program:  Yes
           ATP Program:  Yes
```

Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3101	0.4893	0.1675		0.0082	0.0018	0.0039	0.0183	0.0009	1.0000

Composite Emission Factors (g/mi):

Composite CO :	8.90	7.86	8.62	8.06	8.83	0.915	0.472	0.488	16.50	8.152

* ##########################
* 25 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 24.
* ##########################

M583 Warning:
The user supplied arterial average speed of 25.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.

M112 Warning:
Wintertime Reformulated Gasoline Rules Apply

M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2020
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3101	0.4893	0.1675		0.0082	0.0018	0.0039	0.0183	0.0009	1.0000

Composite Emission Factors (g/mi):

Composite CO :	8.87	7.83	8.58	8.02	8.44	0.893	0.461	0.467	16.06	8.113

```
-----------------------------------------------------------------------------------------------------------------

* ##########################
* 26 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 25.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 26.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
           Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
-----------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    8.85     7.81     8.56     8.01     8.11    0.872    0.450    0.449    15.62    8.096
-----------------------------------------------------------------------------------------------------------------

* ##########################
* 27 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 26.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 27.0
        will be used for all hours of the day.  100% of VMT
```

```
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   8.84    7.80    8.55    7.99    7.80   0.854   0.441   0.432   15.21   8.080
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 28 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 27.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 28.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
```

```
                Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   8.83    7.79    8.53    7.98    7.52   0.836   0.432   0.416   14.83   8.065
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 29 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 28.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 29.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
```

```
          ATP Program:  Yes
       Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.82    7.78    8.52    7.97    7.25   0.820   0.423   0.401   14.48   8.052
 ------------------------------------------------------------------------------------------------------

* ##########################
* 30 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 29.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 30.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
```

```
  Composite CO :    8.81    7.77    8.50    7.96    7.00    0.805    0.415    0.387    14.15    8.039
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 31 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 30.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 31.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :    8.82    7.78    8.52    7.97    6.80    0.792    0.409    0.375    13.83    8.046
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 32 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 31.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 32.0
```

```
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:   75. grains/lb
       Fuel Sulfur Content:   30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675         0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.83    7.79    8.53    7.98    6.62   0.780   0.402   0.364   13.53   8.053
 ---------------------------------------------------------------------------------------------------

* ##########################
* 33 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 32.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 33.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
```

```
          Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program: Yes
        Evap I/M Program: Yes
           ATP Program: Yes
        Reformulated Gas: Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.83    7.80    8.54    7.99    6.45   0.769   0.397   0.354   13.25   8.059
 ---------------------------------------------------------------------------------------------------

* ##########################
* 34 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 33.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 34.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
          Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program: Yes
```

```
        Evap I/M Program:  Yes
           ATP Program:  Yes
        Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.84     7.81     8.55     8.00     6.29    0.758    0.391    0.344    12.98    8.066
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 35 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 34.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 35.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
```

```
Composite Emission Factors (g/mi):
  Composite CO :    8.85    7.82    8.56    8.00    6.13    0.748    0.386    0.335    12.73    8.071
-----------------------------------------------------------------------------------------------------------

* ##########################
* 36 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 35.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 36.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                 Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    8.90    7.87    8.62    8.06    6.03    0.741    0.382    0.328    12.52    8.127
-----------------------------------------------------------------------------------------------------------

* ##########################
* 37 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 36.
* ##########################
 M583 Warning:
```

The user supplied arterial average speed of 37.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M112 Warning:
Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
Calendar Year: 2020
Month: Jan.
Altitude: Low
Minimum Temperature: 41.0 (F)
Maximum Temperature: 41.0 (F)
Absolute Humidity: 75. grains/lb
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: Yes
Evap I/M Program: Yes
ATP Program: Yes
Reformulated Gas: Yes

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3101	0.4893	0.1675		0.0082	0.0018	0.0039	0.0183	0.0009	1.0000
Composite Emission Factors (g/mi):										
Composite CO :	8.95	7.93	8.68	8.12	5.93	0.733	0.378	0.321	12.31	8.179

* ##########################
* 38 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 37.
* ##########################
M583 Warning:
The user supplied arterial average speed of 38.0
will be used for all hours of the day. 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M112 Warning:
Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
there are no sales for vehicle class HDGV8b

```
LEV phase-in data read from file NLEVNE.D
          Calendar Year: 2020
                Month: Jan.
             Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm

      Exhaust I/M Program: Yes
        Evap I/M Program: Yes
           ATP Program: Yes
        Reformulated Gas: Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.00     7.98     8.74     8.18     5.84    0.727    0.375    0.315    12.11    8.229
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 39 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 38.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 39.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
          Calendar Year: 2020
                Month: Jan.
             Altitude: Low
      Minimum Temperature: 41.0 (F)
      Maximum Temperature: 41.0 (F)
        Absolute Humidity:  75. grains/lb
      Fuel Sulfur Content:  30. ppm
```

```
        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO :    9.05     8.03     8.80     8.23     5.76    0.720    0.371    0.309    11.93    8.276
 ---------------------------------------------------------------------------------------------------------------

* ##########################
* 40 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 39.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 40.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
```

```
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.09    8.08    8.85    8.27    5.67   0.714   0.368   0.303   11.75   8.320
-----------------------------------------------------------------------------------------------------------

* ##########################
* 41 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 40.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 41.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
-----------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.15    8.14    8.92    8.33    5.65   0.710   0.366   0.300   11.62   8.376
-----------------------------------------------------------------------------------------------------------

* ##########################
* 42 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 41.
* ##########################
```

```
M583 Warning:
      The user supplied arterial average speed of 42.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
       there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
        GVWR:          <6000    >6000    (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.20     8.19     8.98     8.39     5.62    0.707    0.364    0.296    11.49    8.428
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 43 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 42.
* ##########################
 M583 Warning:
      The user supplied arterial average speed of 43.0
      will be used for all hours of the day.  100% of VMT
      has been assigned to the arterial/collector roadway
      type for all hours of the day and all vehicle types.
 M112 Warning:
       Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b
```

```
LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program: Yes
          Evap I/M Program: Yes
             ATP Program: Yes
          Reformulated Gas: Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.25     8.24     9.04     8.45     5.60    0.703    0.363    0.293    11.36    8.479
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 44 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 43.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 44.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year: 2020
                 Month: Jan.
               Altitude: Low
        Minimum Temperature: 41.0 (F)
        Maximum Temperature: 41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm
```

```
        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.29    8.29    9.09    8.50    5.57   0.700   0.361   0.290   11.24   8.527
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 45 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 44.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 45.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:            <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
```

```
 VMT Distribution:   0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.34     8.34     9.15     8.55     5.55    0.697    0.359    0.288    11.13    8.573
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 46 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 45.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 46.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                 Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:   0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.39     8.40     9.21     8.60     5.59    0.696    0.359    0.287    11.08    8.628
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 47 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 46.
```

```
*##########################
 M583 Warning:
        The user supplied arterial average speed of 47.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
          GVWR:            <6000    >6000    (All)
                   ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :    9.44     8.45     9.27     8.66     5.63    0.696    0.359    0.287    11.02    8.681
 ---------------------------------------------------------------------------------------------------------

*##########################
* 48 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 47.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 48.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
```

```
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :    9.49     8.50     9.33     8.72     5.66    0.695    0.359    0.286    10.97    8.732
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 49 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 48.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 49.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
```

```
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:           <6000   >6000   (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.54     8.56     9.39     8.77     5.70    0.695    0.358    0.286    10.92    8.781
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 50 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 49.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 50.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:           <6000   >6000   (All)
```

```
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.59     8.60     9.44     8.82     5.73    0.694    0.358    0.285    10.88    8.828
 ---------------------------------------------------------------------------------------------------------

*##########################
* 51 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 50.
*##########################
 M583 Warning:
        The user supplied arterial average speed of 51.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:  75. grains/lb
         Fuel Sulfur Content:  30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT     HDGV     LDDV     LDDT     HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                 ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.64     8.66     9.50     8.88     5.84    0.697    0.359    0.288    10.88    8.884
 ---------------------------------------------------------------------------------------------------------

*##########################
* 52 mph 2020 ARTERIAL ONLY
```

```
* File 9, Run 1, Scenario 51.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 52.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :   9.69    8.71    9.57    8.93    5.95   0.700   0.361   0.290   10.88   8.938
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 53 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 52.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 53.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
```

```
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
              ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :    9.74     8.77     9.62     8.99     6.06    0.702    0.362    0.292    10.88    8.989
 ---------------------------------------------------------------------------------------------------------------

* ##########################
* 54 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 53.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 54.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
```

```
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:            <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675        0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO  :   9.79    8.82    9.68    9.04    6.16   0.704   0.363   0.294   10.88   9.039
 ---------------------------------------------------------------------------------------------------

* ##########################
* 55 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 54.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 55.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
       there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
       Minimum Temperature:  41.0 (F)
       Maximum Temperature:  41.0 (F)
        Absolute Humidity:  75. grains/lb
       Fuel Sulfur Content:  30. ppm

       Exhaust I/M Program:  Yes
         Evap I/M Program:  Yes
            ATP Program:  Yes
         Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
```

```
        GVWR:          <6000    >6000    (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.83     8.87     9.74     9.09     6.26    0.706    0.364    0.296    10.88    9.087
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 56 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 55.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 56.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
             Calendar Year:  2020
                   Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
        GVWR:          <6000    >6000    (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :    9.88     8.92     9.80     9.15     6.46    0.712    0.367    0.302    12.22    9.144
 ------------------------------------------------------------------------------------------------------------

* ##########################
```

```
* 57 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 56.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 57.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
          Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
              ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000   >6000   (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :    9.93     8.98     9.86     9.20     6.66    0.718    0.370    0.307    13.52    9.200
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 58 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 57.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 58.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
```

```
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ------------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :    9.98     9.03     9.92     9.26     6.85    0.724    0.373    0.312    14.77    9.253
 ------------------------------------------------------------------------------------------------------------

* ##########################
* 59 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 58.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 59.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
```

```
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
         GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO :   10.03    9.08    9.98    9.31    7.04   0.729   0.376   0.317   15.98   9.305
 ---------------------------------------------------------------------------------------------------

* ##########################
* 60 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 59.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 60.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

```
   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.08    9.13    10.03    9.36    7.21   0.734   0.379   0.322   17.15   9.355
 ---------------------------------------------------------------------------------------------------

* ##########################
* 61 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 60.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 61.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:  75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12  LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893  0.1675          0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.13    9.18    10.09    9.42    7.55   0.745   0.384   0.331   18.48   9.414
 ---------------------------------------------------------------------------------------------------
```

```
* ########################
* 62 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 61.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 62.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
          Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
          there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
              Calendar Year:  2020
                    Month:  Jan.
                 Altitude:  Low
         Minimum Temperature:  41.0 (F)
         Maximum Temperature:  41.0 (F)
           Absolute Humidity:   75. grains/lb
         Fuel Sulfur Content:   30. ppm

         Exhaust I/M Program:  Yes
           Evap I/M Program:  Yes
               ATP Program:  Yes
           Reformulated Gas:  Yes

    Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
          GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
  VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
 Composite Emission Factors (g/mi):
   Composite CO  :   10.18    9.24    10.15    9.47    7.87    0.755    0.389    0.341    19.77    9.470
 ---------------------------------------------------------------------------------------------------------

* ########################
* 63 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 62.
* ########################
 M583 Warning:
        The user supplied arterial average speed of 63.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
```

```
M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:   30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV      MC   All Veh
         GVWR:            <6000    >6000    (All)
                  ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101   0.4893   0.1675          0.0082   0.0018   0.0039   0.0183   0.0009   1.0000
 ---------------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
   Composite CO  :   10.23     9.29    10.21     9.53     8.19    0.764    0.394    0.349    21.03    9.525
 ---------------------------------------------------------------------------------------------------------

* ##########################
* 64 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 63.
* ##########################
 M583 Warning:
        The user supplied arterial average speed of 64.0
        will be used for all hours of the day.  100% of VMT
        has been assigned to the arterial/collector roadway
        type for all hours of the day and all vehicle types.
 M112 Warning:
         Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
         there are no sales for vehicle class HDGV8b

 LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                  Month:  Jan.
                Altitude:  Low
```

```
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes

   Vehicle Type:    LDGV   LDGT12   LDGT34    LDGT    HDGV    LDDV    LDDT    HDDV     MC  All Veh
        GVWR:          <6000   >6000   (All)
              ------  ------  ------  ------  ------  ------  ------  ------  ------  ------
 VMT Distribution:  0.3101  0.4893  0.1675         0.0082  0.0018  0.0039  0.0183  0.0009  1.0000
 ---------------------------------------------------------------------------------------------------
Composite Emission Factors (g/mi):
  Composite CO :   10.28    9.34   10.27    9.58    8.49   0.774   0.399   0.358   22.24   9.578
 ---------------------------------------------------------------------------------------------------

* ##########################
* 65 mph 2020 ARTERIAL ONLY
* File 9, Run 1, Scenario 64.
* ##########################
 M583 Warning:
       The user supplied arterial average speed of 65.0
       will be used for all hours of the day.  100% of VMT
       has been assigned to the arterial/collector roadway
       type for all hours of the day and all vehicle types.
 M112 Warning:
        Wintertime Reformulated Gasoline Rules Apply
 M 48 Warning:
        there are no sales for vehicle class HDGV8b

LEV phase-in data read from file NLEVNE.D
            Calendar Year:  2020
                 Month:  Jan.
               Altitude:  Low
        Minimum Temperature:  41.0 (F)
        Maximum Temperature:  41.0 (F)
         Absolute Humidity:   75. grains/lb
        Fuel Sulfur Content:  30. ppm

        Exhaust I/M Program:  Yes
          Evap I/M Program:  Yes
             ATP Program:  Yes
          Reformulated Gas:  Yes
```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000	(All)						
VMT Distribution:	0.3101	0.4893	0.1675		0.0082	0.0018	0.0039	0.0183	0.0009	1.0000

Composite Emission Factors (g/mi):

Composite CO :	10.32	9.39	10.33	9.63	8.79	0.783	0.404	0.366	23.42	9.629

CAL3QHC Input Files

Intersection 7, 2008 Existing - FR0708EX.i5F
Intersection 7, 2020 Build - FR0720BD.i5F
Intersection 7, 2020 No Build - FR0720NB.i5F
Intersection 8, 2008 Existing - FR0808EX.i51
Intersection 8, 2020 Build - FR0820BD.i51
Intersection 8, 2020 No Build - FR0820NB.i5F
Intersection 27, 2008 Existing - FR2708EX.i5F
Intersection 27, 2020 Build - FR2720BD.i5F
Intersection 27, 2020 No Build - FR2720NB.i5F
Intersection 31, 2020 Build - FR3120BD.i5F
Intersection 31, 2020 No Build - FR3120NB.i5F

```
RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5F 08/25/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 31,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR = 2620.80, 2609.60, 2594.60, 2746.10, 2731.80, 2717.50, 2793.00, 2874.90, 2945.10, 2816.90,
    2895.50, 2971.30, 2817.60, 2832.10, 2840.20, 2670.50, 2685.90, 2726.80, 2612.20, 2558.60,
    2480.60, 2592.90, 2540.40, 2464.20, 2520.20, 2215.10, 2953.10, 3075.80, 3294.40, 3227.20,
    2128.80,


YR = 2495.40, 2565.10, 2645.30, 2514.40, 2582.40, 2659.80, 2489.30, 2497.60, 2511.60, 2373.90,
    2389.00, 2405.10, 2355.40, 2280.30, 2201.50, 2236.10, 2183.60, 2032.20, 2296.10, 2302.40,
    2300.30, 2445.90, 2433.30, 2411.60, 2481.70, 2415.30, 2586.90, 2558.30, 2550.10, 2368.90,
    2253.90,

ZR= 30*6.0, 6.0,
/
R1 ROBERTS SB APP 3
R2 ROBERTS SB APP 25
R3 ROBERTS SB APP 50
R4 ROBERTS NB DEP 3
R5 ROBERTS NB DEP 25
R6 ROBERTS NB DEP 50
R7 SILVER WB APP 3
R8 SILVER WB APP 25
R9 SILVER WB APP 50
R10 SILVER EB DEP 3
R11 SILVER EB DEP 25
R12 SILVER EB DEP 50
R13 ROBERTS NB APP 3
R14 ROBERTS NB APP 25
R15 ROBERTS NB APP 50
R16 ROBERTS SB DEP 3
R17 ROBERTS SB DEP 25
R18 ROBERTS SB DEP 50
R19 SILVER EB APP 3
R20 SILVER EB APP 25
R21 SILVER EB APP 50
R22 SILVER WB DEP 3
R23 SILVER WB DEP 25
R24 SILVER WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
R30 HOUSE 6
R31 HOUSE 7
INT #7 2008 EXISTING FFQ
&NAM2
NL= 52,
NM= 1,
PRINT2= 1,
IQ= 25*1, 19*2, 8*1,
/
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```
&NAML
XL1 = 2692.40, 2648.90, 2610.30, 2623.00, 2739.50, 2631.70, 2710.40, 3080.70, 2717.90, 3164.40,
    2740.30, 2813.00, 2695.40, 2693.20, 2765.90, 2670.10, 2714.20, 2427.20, 2708.90, 2648.90,
    2604.00, 2481.10, 2762.80, 2692.90, 2626.50, 2647.40, 2662.40, 2677.40,
    2792.80, 2795.00, 2792.80, 2795.80, 2797.30, 2777.00, 2766.50, 2759.00, 2753.70, 2746.90,
    2734.90, 2468.80, 2633.40, 2633.40, 2625.90, 2630.40,
    2686.00, 2649.00, 2610.00, 2632.00, 2695.00, 2649.00, 2610.00, 2632.00,

YL1 = 2408.40, 2691.70, 2927.20, 3148.30, 2411.30, 2955.70, 2427.80, 2498.60, 2396.40, 2465.30,
    2412.90, 2012.10, 1733.20, 2406.90, 1993.80, 1765.00, 2394.90, 2343.90, 2427.90, 2418.90,
    2709.50, 2829.40, 2000.80, 2236.20, 2323.00, 2483.30, 2490.80, 2487.80,
    2462.30, 2451.60, 2443.30, 2438.80, 2430.50, 2357.60, 2358.40, 2353.10, 2351.60, 2352.30,
    2351.60, 2335.10, 2374.10, 2383.20, 2395.20, 2402.70,
    2495.00, 2692.00, 2927.00, 3148.00, 2495.00, 2692.00, 2927.00, 3148.00,

XL2 = 2648.90, 2611.50, 2625.30, 2667.90, 2631.70, 2709.60, 3082.00, 3717.40, 3161.40, 3718.80,
    2813.80, 2696.10, 2502.10, 2766.60, 2671.50, 2490.30, 2435.50, 1720.00, 1700.50, 2604.00,
    2484.10, 2292.30, 2693.90, 2626.50, 2436.20, 2622.00, 2622.00, 2628.00,
    2900.70, 3046.90, 3061.20, 2995.80, 3001.00, 2807.10, 2817.60, 2806.30, 2795.80, 2769.50,
    2759.00, 2360.50, 2340.20, 2333.50, 2465.80, 2471.00,
    2649.00, 2612.00, 2625.00, 2668.00, 2649.00, 2612.00, 2625.00, 2668.00,

YL2 = 2691.50, 2931.50, 3151.90, 3380.60, 2959.60, 3400.80, 2498.30, 2399.70, 2466.80, 2379.90,
    2012.80, 1733.40, 1541.40, 1994.80, 1764.60, 1564.20, 2348.40, 2239.00, 2260.10, 2712.50,
    2830.90, 2920.80, 2237.60, 2325.30, 2345.40, 2660.10, 2796.40, 2808.40,
    2481.80, 2497.40, 2492.20, 2476.40, 2470.40, 2193.00, 2062.20, 2059.90, 2057.60, 2209.50,
    2235.80, 2324.50, 2328.30, 2332.80, 2364.40, 2372.60,
    2692.00, 2932.00, 3152.00, 3381.00, 2692.00, 2932.00, 3152.00, 3381.00,


HL=                 51*0., 0.,
WL=                 68.0, 3*44.0, 2*44.0, 80.0, 44.0, 2*44.0, 92.0, 2*44.0, 3*44.0, 68.0, 44.0, 32.0,
    3*32.0, 3*32.0, 26*12.0, 12.0,
NLANES=             51*1, 1,
CAVG=   51*75, 75,
RAVG=   25*0, 37, 2*50,    40 2*50, 2*62, 35, 3*48, 2*63, 37, 2*50, 62, 62,
YFAC=   51*3.0, 3.0,
IV=   25*0, 323, 2*308,    135, 166, 167, 146, 147, 405, 441, 2*442, 156, 155, 190, 285, 284, 161, 160,
VPHL=  4*1215, 2*1781, 2*761, 2*1250, 3*2041, 909, 2*1099, 890, 1080, 967, 3*323, 3*190, 19*0, 7*152, 152,
SPEED=  6*40.0, 4*40.0, 6*30.0, 3*40.0, 3*40.0, 3*40.0, 19*0., 7*99., 99.,
SFR=    51*1600, 1600,
ST=                 51*1, 1,
AT=                 51*3, 3,
/
F1AB  ROBERTS SB APP AG
F1BC  ROBERTS SB APP AG
F1CD  ROBERTS SB APP AG
F1DE  ROBERTS SB APP AG
F2AB  ROBERTS NB DEP AG
F2BC  ROBERTS NB DEP AG
F3AB  SILVERS WB APP AG
F3BC  SILVERS WB APP AG
F4AB  SILVERS EB DEP AG
F4BC  SILVERS EB DEP AG
F5AB  ROBERTS NB APP AG
F5BC  ROBERTS NB APP AG
F5CD  ROBERTS NB APP AG
F6AB  ROBERTS SB DEP AG
F6BC  ROBERTS SB DEP AG
F6CD  ROBERTS SB DEP AG
F7AB  SILVERS EB APP AG
F7BC  SILVERS EB APP AG
F8AB  SILVERS WB DEP AG
F9AB  ROBERTS SB RT  AG
F9BC  ROBERTS SB RT  AG
F9CD  ROBERTS SB RT  AG
F10AB SILVER EB RAMP AG
F10BC SILVER EB RAMP AG
F10CD SILVER EB RAMP AG
Q1AB  ROBERTS SB R   AG
```

```
Q2AB  ROBERTS SB T   AG
Q3AB  ROBERTS SB T   AG
Q6AB  SILVER  WB R   AG
Q7AB  SILVER  WB T   AG
Q8AB  SILVER  WB T   AG
Q9AB  SILVER  WB L   AG
Q10AB  SILVER  WB L  AG
Q11AB  ROBERTS NB R  AG
Q12AB  ROBERTS NB T  AG
Q13AB  ROBERTS NB T  AG
Q14AB  ROBERTS NB T  AG
Q15AB  ROBERTS NB L  AG
Q16AB  ROBERTS NB L  AG
Q17AB  SILVER EB R   AG
Q18AB  SILVER EB T   AG
Q19AB  SILVER EB T   AG
Q20AB  SILVER EB L   AG
Q21AB  SILVER EB L   AG
FQ4AB ROBERTS SB L   AG
FQ4BC ROBERTS SB L   AG
FQ4CD ROBERTS SB L   AG
FQ4DE ROBERTS SB L   AG
FQ5AB ROBERTS SB L   AG
FQ5BC ROBERTS SB L   AG
FQ5CD ROBERTS SB L   AG
FQ5DE ROBERTS SB L   AG
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BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

```
RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD RF0720BD.I51 09/06/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 24,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  2513.60, 2583.80, 2661.60, 2550.50, 2595.60, 2670.90, 2538.20, 2601.80, 2663.40, 2312.30,
    2337.70, 2358.70, 2209.40, 2134.10, 2054.40, 2042.10, 2118.90, 2197.10, 1935.30, 2545.60,
    2647.40, 2783.30, 1857.50, 2841.80,



YR =  1846.10, 1853.80, 1856.20, 1744.60, 1752.00, 1756.40, 1733.00, 1673.80, 1623.30, 1642.60,
    1567.30, 1486.80, 1662.90, 1655.70, 1646.20, 1754.20, 1769.40, 1785.30, 1757.90, 1901.20,
    1891.90, 1732.90, 1620.00, 1877.30,


ZR=  23*6.0, 6.0,
/
R1 SILVER  WB APP  3
R2 SILVER  WB APP 25
R3 SILVER  WB APP 50
R4 SILVER EB DEP  3
R5 SILVER EB DEP 25
R6 SILVER EB DEP 50
R7 ROBERTS NB APP 3
R8 ROBERTS NB APP 25
R9 ROBERTS NB APP 50
R10 ROBERTS SB DEP 3
R11 ROBERTS SB DEP 25
R12 ROBERTS SB DEP 50
R13 SILVER  EB APP 3
R14 SILVER  EB APP 25
R15 SILVER  EB APP 50
R16 SILVER  WB DEP 3
R17 SILVER  WB DEP 25
R18 SILVER  WB DEP 50
R19 HOUSE 1
R20 HOUSE 2
R21 HOUSE 3
R22 HOUSE 4
R23 HOUSE 5
R24 HOUSE 6
INT #7 2020 BUILD
&NAM2
NL=  23,
NM=  1,
PRINT2=  1,
IQ=  14*1, 8*2, 2,
/
&NAML
XL1 =  2324.60, 2711.90, 2409.60, 2713.90, 2425.70, 2597.60, 2665.10, 2734.10, 2323.00, 2382.30,
    2454.30, 2406.50, 1841.50, 2323.00, 2508.80, 2514.10, 2476.20, 2470.70, 2466.60, 2460.90,
    2213.70, 2212.40, 2207.80,


YL1 =  1774.20, 1832.90, 1752.50, 1797.90, 1789.10, 1637.40, 1581.30, 1511.50, 1773.90, 1569.10,
```

```
    1369.20, 1751.80, 1660.40, 1773.90, 1811.30, 1789.00, 1738.30, 1735.80, 1733.00, 1727.90,
    1701.60, 1710.00, 1721.30,

XL2 = 2711.90, 3410.60, 2713.60, 3415.70, 2598.10, 2663.60, 2734.10, 2876.00, 2381.90, 2453.00,
    2663.70, 1841.10, 1398.60, 1395.20, 2669.10, 2709.40, 2537.80, 2534.90, 2530.80, 2527.70,
    1903.00, 1902.60, 1902.10,

YL2 = 1832.90, 1713.30, 1799.20, 1676.30, 1637.80, 1582.40, 1514.00, 1200.30, 1568.50, 1367.10,
    1119.30, 1661.10, 1582.90, 1603.90, 1834.70, 1814.50, 1688.10, 1686.40, 1685.10, 1684.70,
    1655.60, 1664.00, 1670.70,


HL=                 22*0., 0.,
WL=                 56.0, 44.0, 2*44.0, 68.0, 3*44.0, 3*44.0, 56.0, 44.0, 44.0, 8*12.0, 12.0,
NLANES=             22*1, 1,
CAVG=   22*90, 90,
RAVG=   14*0, 2*30, 4*60, 1, 30, 30,
YFAC=   22*3.0, 3.0,
IV=   14*0, 1006, 135, 599, 600, 162, 161, 321, 284, 285,
VPHL=  2*1141, 2*1768, 4*1522, 3*456, 2*890, 1329, 8*0, 0,
SPEED=  14*30.0, 8*0., 0.,
SFR=    14*1600, 1600,
ST=                 22*1, 1,
AT=                 22*3, 3,
/
F1AB  SILVERS WB APP AG
F1BC  SILVERS WB APP AG
F2AB  SILVERS EB DEP AG
F2BC  SILVERS EB DEP AG
F3AB  ROBERTS NB APP AG
F3BC  ROBERTS NB APP AG
F3CD  ROBERTS NB APP AG
F3DE  ROBERTS NB APP AG
F4AB  ROBERTS SB DEP AG
F4BC  ROBERTS SB DEP AG
F4DE  ROBERTS SB DEP AG
F5AB  SILVERS EB APP AG
F5BC  SILVERS EB APP AG
F6AB  SILVERS WB DEP AG
Q1AB  SILVERS WB TL  AG
Q2AB  SILVERS WB L   AG
Q3AB  ROBERTS NB R   AG
Q4AB  ROBERTS NB R   AG
Q5AB  ROBERTS NB L   AG
Q6AB  ROBERTS NB L   AG
Q7AB  SILVER  EB L   AG
Q8AB  SILVERS EB T   AG
Q9AB  SILVERS EB T   AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
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RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB  FFQ RF0720NB.I5F 08/25/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 31,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  2620.80, 2609.60, 2594.60, 2746.10, 2731.80, 2717.50, 2793.00, 2874.90, 2945.10, 2816.90,
    2895.50, 2971.30, 2817.60, 2832.10, 2840.20, 2670.50, 2685.90, 2726.80, 2612.20, 2558.60,
    2480.60, 2592.90, 2540.40, 2464.20, 2520.20, 2215.10, 2953.10, 3075.80, 3294.40, 3227.20,
    2128.80,


YR =  2495.40, 2565.10, 2645.30, 2514.40, 2582.40, 2659.80, 2489.30, 2497.60, 2511.60, 2373.90,
    2389.00, 2405.10, 2355.40, 2280.30, 2201.50, 2236.10, 2183.60, 2032.20, 2296.10, 2302.40,
    2300.30, 2445.90, 2433.30, 2411.60, 2481.70, 2415.30, 2586.90, 2558.30, 2550.10, 2368.90,
    2253.90,

ZR=  30*6.0, 6.0,
/
R1 ROBERTS SB APP  3
R2 ROBERTS SB APP 25
R3 ROBERTS SB APP 50
R4 ROBERTS NB DEP  3
R5 ROBERTS NB DEP 25
R6 ROBERTS NB DEP 50
R7 SILVER  WB APP  3
R8 SILVER  WB APP 25
R9 SILVER  WB APP 50
R10 SILVER EB DEP  3
R11 SILVER EB DEP 25
R12 SILVER EB DEP 50
R13 ROBERTS NB APP 3
R14 ROBERTS NB APP 25
R15 ROBERTS NB APP 50
R16 ROBERTS SB DEP 3
R17 ROBERTS SB DEP 25
R18 ROBERTS SB DEP 50
R19 SILVER  EB APP 3
R20 SILVER  EB APP 25
R21 SILVER  EB APP 50
R22 SILVER  WB DEP 3
R23 SILVER  WB DEP 25
R24 SILVER  WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
R30 HOUSE 6
R31 HOUSE 7
INT #7 2020 NO BUILD FFQ
&NAM2
NL=  63,
NM=  1,
PRINT2=  1,
IQ=  25*1, 12*2, 25*1, 1,
/
```

```
&NAML
XL1 = 2692.40, 2648.90, 2610.30, 2623.00, 2739.50, 2631.70, 2710.40, 3080.70, 2717.90, 3164.40,
    2740.30, 2813.00, 2695.40, 2693.20, 2765.90, 2670.10, 2714.20, 2427.20, 2708.90, 2648.90,
    2604.00, 2481.10, 2762.80, 2692.90, 2626.50, 2647.40,          2686.40, 2695.40,
    2792.80, 2795.00, 2792.80,                                  2746.90,
    2734.90,      2633.40, 2633.40, 2625.90, 2630.40,

    2662.00, 2649.00, 2610.00, 2623.00, 2677.00, 2649.00, 2610.00, 2623.00, 2796.00, 3081.00,
    2797.00, 3081.00, 2777.00, 2813.00, 2695.00, 2766.00, 2813.00, 2695.00,
        2759.00, 2813.00, 2695.00, 2754.00, 2813.00, 2695.00, 2469.00, 2427.00,


YL1 = 2408.40, 2691.70, 2927.20, 3148.30, 2411.30, 2955.70, 2427.80, 2498.60, 2396.40, 2465.30,
    2412.90, 2012.10, 1733.20, 2406.90, 1993.80, 1765.00, 2394.90, 2343.90, 2427.90, 2418.90,
    2709.50, 2829.40, 2000.80, 2236.20, 2323.00, 2483.30,          2495.30, 2495.30,
    2462.30, 2451.60, 2443.30,                                  2352.30,
    2351.60,      2374.10, 2383.20, 2395.20, 2402.70,

    2491.00, 2692.00, 2927.00, 3148.00, 2488.00, 2692.00, 2927.00, 3148.00, 2439.00, 2499.00,
    2431.00, 2499.00, 2358.00, 2012.00, 1733.00, 2358.00, 2012.00, 1733.00,
        2353.00, 2012.00, 1733.00, 2352.00, 2012.00, 1733.00, 2335.00, 2344.00,


XL2 = 2648.90, 2611.50, 2625.30, 2667.90, 2631.70, 2709.60, 3082.00, 3717.40, 3161.40, 3718.80,
    2813.80, 2696.10, 2502.10, 2766.60, 2671.50, 2490.30, 2435.50, 1720.00, 1700.50, 2604.00,
    2484.10, 2292.30, 2693.90, 2626.50, 2436.20, 2622.00,          2656.40, 2671.40,
    2900.70, 3046.90, 3061.20,                                  2769.50,
    2759.00,      2340.20, 2333.50, 2465.80, 2471.00,

    2649.00, 2612.00, 2625.00, 2668.00, 2649.00, 2612.00, 2625.00, 2668.00, 3082.00, 3717.00,
    3082.00, 3717.00, 2814.00, 2696.00, 2502.00, 2814.00, 2696.00, 2502.00,
        2814.00, 2696.00, 2502.00, 2814.00, 2696.00, 2502.00, 2435.00, 1720.00,



YL2 = 2691.50, 2931.50, 3151.90, 3380.60, 2959.60, 3400.80, 2498.30, 2399.70, 2466.80, 2379.90,
    2012.80, 1733.40, 1541.40, 1994.80, 1764.60, 1564.20, 2348.40, 2239.00, 2260.10, 2712.50,
    2830.90, 2920.80, 2237.60, 2325.30, 2345.40, 2660.10,          2652.60, 2630.10,
    2481.80, 2497.40, 2492.20,                                  2209.50,
    2235.80,      2328.30, 2332.80, 2364.40, 2372.60,

    2692.00, 2932.00, 3152.00, 3381.00, 2692.00, 2932.00, 3152.00, 3381.00,  2498.00, 2400.00,
    2498.00, 2400.00, 2013.00, 1733.00, 1541.00, 2013.00, 1733.00, 1541.00,
        2013.00, 1733.00, 1541.00, 2013.00, 1733.00, 1541.00, 2348.00, 2239.00,



HL=                 62*0., 0.,
WL=                 68.0, 3*44.0, 2*44.0, 80.0, 44.0, 2*44.0, 92.0, 2*44.0, 3*44.0, 68.0, 44.0, 32.0,
        3*32.0, 3*32.0, 37*12.0, 12.0,
NLANES=             62*1, 1,
CAVG=   62*100, 100,
RAVG=   25*0, 3*72, 75, 2*75,  2*69, 2*75, 84, 84,
YFAC=   62*3.0, 3.0,
IV=   25*0, 323,  2*138, 135, 166, 167,  2*361,  285, 284, 161, 160,
VPHL=  4*1538, 2*2694, 2*1141, 2*1768, 3*3883, 1935, 2*2412, 890, 1367, 1378, 3*323, 3*477, 12*0,
    8*83, 4*97, 12*80, 87, 87,
SPEED=  6*40.0, 4*30.0, 6*30.0, 3*30.0, 3*40.0, 3*30.0, 12*0., 25*99., 99.,
SFR=    62*1600, 1600,
ST=                 62*1, 1,
AT=                 62*3, 3,
/
F1AB  ROBERTS SB APP AG
F1BC  ROBERTS SB APP AG
F1CD  ROBERTS SB APP AG
F1DE  ROBERTS SB APP AG
F2AB  ROBERTS NB DEP AG
F2BC  ROBERTS NB DEP AG
```

```
F3AB  SILVERS WB APP AG
F3BC  SILVERS WB APP AG
F4AB  SILVERS EB DEP AG
F4BC  SILVERS EB DEP AG
F5AB  ROBERTS NB APP AG
F5BC  ROBERTS NB APP AG
F5CD  ROBERTS NB APP AG
F6AB  ROBERTS SB DEP AG
F6BC  ROBERTS SB DEP AG
F6CD  ROBERTS SB DEP AG
F7AB  SILVERS EB APP AG
F7BC  SILVERS EB APP AG
F8AB  SILVERS WB DEP AG
F9AB  ROBERTS SB RT  AG
F9BC  ROBERTS SB RT  AG
F9CD  ROBERTS SB RT  AG
F10AB SILVER EB RAMP AG
F10BC SILVER EB RAMP AG
F10CD SILVER EB RAMP AG
Q1AB  ROBERTS SB R   AG
Q4AB  ROBERTS SB L   AG
Q5AB  ROBERTS SB L   AG
Q6AB  SILVER  WB R   AG
Q7AB  SILVER  WB T   AG
Q8AB  SILVER  WB T   AG
Q15AB  ROBERTS NB L  AG
Q16AB  ROBERTS NB L  AG
Q18AB  SILVER EB T   AG
Q19AB  SILVER EB T   AG
Q20AB  SILVER EB L   AG
Q21AB  SILVER EB L   AG
FQ2AB  ROBERTS SB T  AG
FQ2BC  ROBERTS SB T  AG
FQ2CD  ROBERTS SB T  AG
FQ2DE  ROBERTS SB T  AG
FQ3AB  ROBERTS SB T  AG
FQ3BC  ROBERTS SB T  AG
FQ3CD  ROBERTS SB T  AG
FQ3DE  ROBERTS SB T  AG
FQ9AB  SILVER  WB L  AG
FQ9BC  SILVER  WB L  AG
FQ10AB  SILVER  WB L AG
FQ10BC  SILVER  WB L AG
FQ11AB  ROBERTS NB R AG
FQ11BC  ROBERTS NB R AG
FQ11CD  ROBERTS NB R AG
FQ12AB  ROBERTS NB T AG
FQ12BC  ROBERTS NB T AG
FQ12CD  ROBERTS NB T AG
FQ13AB  ROBERTS NB T AG
FQ13BC  ROBERTS NB T AG
FQ13CD  ROBERTS NB T AG
FQ14AB  ROBERTS NB T AG
FQ14BC  ROBERTS NB T AG
FQ14CD  ROBERTS NB T AG
FQ17AB  SILVER EB R  AG
FQ17BC  SILVER EB R  AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

```
RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 09/01/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 34,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  748.00, 746.00, 742.90, 837.90, 832.80, 856.40, 876.10, 942.20, 1020.80, 893.70,
     960.80, 1042.50, 863.80, 875.10, 889.60, 771.80, 786.30, 799.70, 754.20, 689.20,
     611.70, 732.60, 675.80, 594.10, 983.60, 1055.90, 1057.90, 902.00, 697.40, 915.40,
     931.90, 734.60, 774.90, 800.70,


YR =  2012.70, 2087.10, 2163.50, 2024.10, 2089.10, 2149.10, 2022.00, 2036.50, 2047.80, 1931.10,
    1944.50, 1964.20, 1901.20, 1833.00, 1751.40, 1889.80, 1821.60, 1735.90, 1904.50, 1895.10,
    1887.70, 1996.20, 1984.80, 1974.50, 2067.50, 2072.60, 1944.50, 1859.80, 2024.10, 1740.00,
    1637.80, 1901.20, 1685.30, 1614.00,

ZR=  33*6.0, 6.0,
/
R1 MERCER  SB APP  3
R2 MERCER  SB APP 25
R3 MERCER SB APP  50
R4 MERCER NB DEP   3
R5 MERCER NB DEP  25
R6 MERCER NB DEP  50
R7 SILVER  WB APP  3
R8 SILVER  WB APP 25
R9 SILVER  WB APP 50
R10 SILVER EB DEP  3
R11 SILVER EB DEP 25
R12 SILVER EB DEP 50
R13 MERCER NB APP 3
R14 MERCER NB APP 25
R15 MERCER NB APP 50
R16 MERCER SB DEP 3
R17 MERCER SB DEP 25
R18 MERCER SB DEP 50
R19 SILVER EB APP 3
R20 SILVER EB APP 25
R21 SILVER EB APP 50
R22 SILVER  WB DEP 3
R23 SILVER WB DEP 25
R24 SILVER WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
R30 HOUSE 6
R31 HOUSE 7
R32 HOUSE 8
R33 HOUSE 9
R34 HOUSE 10
INT #8 2008 EXISTING
&NAM2
NL=  25,
NM=  1,
```

```
PRINT2= 1,
lQ= 16*1, 8*2, 2,
/
&NAML
XL1 =  792.10, 775.10, 839.60, 1065.40, 816.40, 803.20, 942.70, 803.10, 1231.10, 806.70,
    1248.30, 816.00, 792.80, 805.90, 661.90, 801.50, 776.40, 786.80, 869.30, 870.70,
     837.10, 817.60, 761.00, 752.60, 751.20,


YL1 = 1951.40, 2151.20, 2306.10, 2470.00, 1958.10, 2116.30, 2275.10, 1965.80, 2059.50, 1943.40,
    2036.80, 1956.80, 1950.20, 1943.00, 1922.90, 1965.60, 2007.60, 2004.80, 1987.30, 1979.60,
    1972.60, 1909.00, 1907.70, 1938.40, 1944.00,


XL2 =  775.10, 839.80, 1065.40, 1408.20, 803.30, 942.10, 1577.40, 1231.00, 1795.50, 1249.70,
    1795.40, 990.80, 968.40, 660.40,  72.40,  68.80, 768.00, 774.30, 1170.50, 992.30,
     889.60, 871.40, 678.50, 471.70, 474.50,


YL2 = 2151.20, 2306.70, 2472.90, 2534.70, 2115.60, 2273.70, 2403.60, 2060.90, 2152.90, 2038.20,
    2128.90, 953.70, 951.50, 1921.90, 1814.10, 1833.50, 2137.50, 2159.20, 2048.10, 2043.20,
    2000.60, 1598.10, 1590.40, 1888.10, 1893.00,


HL=                 24*0., 0.,
WL=                 44.0, 3*32.0, 3*32.0, 44.0, 32.0, 32.0, 44.0, 44.0, 44.0, 56.0, 44.0, 32.0, 8*12.0, 12.0,
NLANES=             24*1, 1,
CAVG=   24*65, 65,
RAVG=   16*0, 2*51, 2*14, 2*51, 2*23, 23,
YFAC=   24*3.0, 3.0,
IV=   16*0, 19, 67, 773, 131, 101, 30, 515, 516, 31,
VPHL=  4*86, 3*105, 2*904, 2*1165, 131, 165, 2*1062, 748, 8*0, 0,
SPEED=  7*30.0, 4*40.0, 2*30.0, 3*40.0, 8*0., 0.,
SFR=    24*1600, 1600,
ST=                 24*1, I,
AT=                 24*3, 3,
/
F1AB  MERCER SB APP  AG
F1BC  MERCER SB APP  AG
F1CD  MERCER SB APP  AG
F1DE  MERCER SB APP  AG
F2AB  MERCER NB DEP  AG
F2BC  MERCER NB DEP  AG
F2CD  MERCER NB DEP  AG
F3AB  SILVERS WB APP AG
F3BC  SILVERS WB APP AG
F4AB  SILVERS EB DEP AG
F4BC  SILVERS EB DEP AG
F5AB  MERCER NB APP  AG
F6AB  MERCER SB DEP  AG
F7AB  SILVERS EB APP AG
F7BC  SILVERS EB APP AG
F8AB  SILVERS WB DEP AG
Q1AB  MERCER SB R   AG
Q2AB  MERCER SB TL  AG
Q3AB  SILVER  WB TR  AG
Q4AB  SILVER  WB L  AG
Q5AB  MERCER NB R   AG
Q6AB  MERCER NB TL  AG
Q7AB  SILVER EB TR  AG
Q8AB  SILVER EB T   AG
Q9AB  SILVER EB L   AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
```

```
DEGR= 10.,
IVAI= 0,36,
/
```

```
RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.I51 09/01/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 34,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  748.00, 746.00, 742.90, 837.90, 832.80, 856.40, 876.10, 942.20, 1020.80, 893.70,
     960.80, 1042.50, 863.80, 875.10, 889.60, 771.80, 786.30, 799.70, 754.20, 689.20,
     611.70, 732.60, 675.80, 594.10, 983.60, 1055.90, 1057.90, 902.00, 697.40, 915.40,
     931.90, 734.60, 774.90, 800.70,


YR =  2012.70, 2087.10, 2163.50, 2024.10, 2089.10, 2149.10, 2022.00, 2036.50, 2047.80, 1931.10,
    1944.50, 1964.20, 1901.20, 1833.00, 1751.40, 1889.80, 1821.60, 1735.90, 1904.50, 1895.10,
    1887.70, 1996.20, 1984.80, 1974.50, 2067.50, 2072.60, 1944.50, 1859.80, 2024.10, 1740.00,
    1637.80, 1901.20, 1685.30, 1614.00,

ZR=  33*6.0, 6.0,
/
R1 MERCER  SB APP  3
R2 MERCER  SB APP 25
R3 MERCER SB APP  50
R4 MERCER NB DEP   3
R5 MERCER NB DEP  25
R6 MERCER NB DEP  50
R7 SILVER  WB APP  3
R8 SILVER  WB APP 25
R9 SILVER  WB APP 50
R10 SILVER EB DEP  3
R11 SILVER EB DEP 25
R12 SILVER EB DEP 50
R13 MERCER NB APP 3
R14 MERCER NB APP 25
R15 MERCER NB APP 50
R16 MERCER SB DEP 3
R17 MERCER SB DEP 25
R18 MERCER SB DEP 50
R19 SILVER EB APP 3
R20 SILVER EB APP 25
R21 SILVER EB APP 50
R22 SILVER  WB DEP 3
R23 SILVER WB DEP 25
R24 SILVER WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
R30 HOUSE 6
R31 HOUSE 7
R32 HOUSE 8
R33 HOUSE 9
R34 HOUSE 10
INT #8 2020  BUILD
&NAM2
NL=  26,
NM=  1,
```

```
PRINT2= 1,
IQ= 16*1, 9*2, 2,
/
&NAML
XL1 = 792.10, 775.10, 839.60, 1065.40, 816.40, 803.20, 942.70, 803.10, 1231.10, 806.70,
    1248.30, 816.00, 792.80, 805.90, 661.90, 801.50, 776.40, 786.80, 867.20, 869.30,
    870.70, 837.10, 817.60, 761.00, 752.60, 751.20,


YL1 = 1951.40, 2151.20, 2306.10, 2470.00, 1958.10, 2116.30, 2275.10, 1965.80, 2059.50, 1943.40,
    2036.80, 1956.80, 1950.20, 1943.00, 1922.90, 1965.60, 2007.60, 2004.80, 1987.30, 1979.60,
    1972.60, 1909.00, 1907.70, 1933.50, 1938.40, 1944.00,


XL2 = 775.10, 839.80, 1065.40, 1408.20, 803.30, 942.10, 1577.40, 1231.00, 1795.50, 1249.70,
    1795.40, 990.80, 968.40, 660.40, 72.40, 68.80, 768.00, 774.30, 1154.40, 1170.50,
    992.30, 889.60, 871.40, 678.50, 471.70, 474.50,


YL2 = 2151.20, 2306.70, 2472.90, 2534.70, 2115.60, 2273.70, 2403.60, 2060.90, 2152.90, 2038.20,
    2128.90, 953.70, 951.50, 1921.90, 1814.10, 1833.50, 2137.50, 2159.20, 2048.10, 2043.20,
    2000.60, 1598.10, 1590.40, 1918.80, 1888.10, 1893.00,


HL=                 25*0., 0.,
WL=                 44.0, 3*32.0, 3*32.0, 56.0, 32.0, 32.0, 44.0, 44.0, 44.0, 56.0, 44.0, 32.0, 9*12.0, 12.0,
NLANES=             25*1, 1,
CAVG=   25*100, 100,
RAVG=   16*0, 2*52, 3*48, 2*62, 2*57, 57,
YFAC=   25*3.0, 3.0,
IV=   16*0, 6, 417, 596, 595, 115, 134, 409, 2*547, 18,
VPHL=  4*423, 3*402, 2*1306, 2*1183, 543, 577, 2*1112, 1222, 9*0, 0,
SPEED=  7*30.0, 4*30.0, 2*30.0, 3*30.0, 9*0., 0.,
SFR=    25*1600, 1600,
ST=                 25*1, 1,
AT=                 25*3, 3,
/
F1AB  MERCER SB APP  AG
F1BC  MERCER SB APP  AG
F1CD  MERCER SB APP  AG
F1DE  MERCER SB APP  AG
F2AB  MERCER NB DEP  AG
F2BC  MERCER NB DEP  AG
F2CD  MERCER NB DEP  AG
F3AB  SILVERS WB APP AG
F3BC  SILVERS WB APP AG
F4AB  SILVERS EB DEP AG
F4BC  SILVERS EB DEP AG
F5AB  MERCER NB APP  AG
F6AB  MERCER SB DEP  AG
F7AB  SILVERS EB APP AG
F7BC  SILVERS EB APP AG
F8AB  SILVERS WB DEP AG
Q1AB  MERCER SB R    AG
Q2AB  MERCER SB TL   AG
Q3AB  SILVER  WB TR  AG
Q4AB  SILVER  WB T   AG
Q5AB  SILVER  WB L   AG
Q6AB  MERCER NB R    AG
Q7AB  MERCER NB TL   AG
Q8AB  SILVER EB TR   AG
Q9AB  SILVER EB T    AG
Q10AB  SILVER EB L   AG
&NAMM
U= 1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8= 3.0,
AMB1= 4.3,
```

```
IVAR= 1,
DEGR= 10.,
IVAI= 0,36,
/
```

```
fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.I5F 09/07/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 34,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  748.00, 746.00, 742.90, 837.90, 832.80, 856.40, 876.10, 942.20, 1020.80, 893.70,
     960.80, 1042.50, 863.80, 875.10, 889.60, 771.80, 786.30, 799.70, 754.20, 689.20,
     611.70, 732.60, 675.80, 594.10, 983.60, 1055.90, 1057.90, 902.00, 697.40, 915.40,
     931.90, 734.60, 774.90, 800.70,


YR =  2012.70, 2087.10, 2163.50, 2024.10, 2089.10, 2149.10, 2022.00, 2036.50, 2047.80, 1931.10,
    1944.50, 1964.20, 1901.20, 1833.00, 1751.40, 1889.80, 1821.60, 1735.90, 1904.50, 1895.10,
    1887.70, 1996.20, 1984.80, 1974.50, 2067.50, 2072.60, 1944.50, 1859.80, 2024.10, 1740.00,
    1637.80, 1901.20, 1685.30, 1614.00,

ZR=  33*6.0, 6.0,
/
R1 MERCER  SB APP  3
R2 MERCER  SB APP 25
R3 MERCER SB APP  50
R4 MERCER NB DEP   3
R5 MERCER NB DEP  25
R6 MERCER NB DEP  50
R7 SILVER  WB APP  3
R8 SILVER  WB APP 25
R9 SILVER  WB APP 50
R10 SILVER EB DEP  3
R11 SILVER EB DEP 25
R12 SILVER EB DEP 50
R13 MERCER NB APP 3
R14 MERCER NB APP 25
R15 MERCER NB APP 50
R16 MERCER SB DEP 3
R17 MERCER SB DEP 25
R18 MERCER SB DEP 50
R19 SILVER EB APP 3
R20 SILVER EB APP 25
R21 SILVER EB APP 50
R22 SILVER  WB DEP 3
R23 SILVER WB DEP 25
R24 SILVER WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
R30 HOUSE 6
R31 HOUSE 7
R32 HOUSE 8
R33 HOUSE 9
R34 HOUSE 10
INT #8 2020 NO BUILD FFQ
&NAM2
NL=  26,
NM=  1,
```

```
PRINT2= 1,
IQ= 16*1, 8*2, 2*1,
/
&NAML
XL1 =  792.10, 775.10, 839.60, 1065.40, 816.40, 803.20, 942.70, 803.10, 1231.10, 806.70,
    1248.30, 816.00, 792.80, 805.90, 661.90, 801.50, 776.40, 786.80,        870.70,
     837.10, 817.60, 761.00, 752.60, 751.20,
     869.00, 1231.00,


YL1 = 1951.40, 2151.20, 2306.10, 2470.00, 1958.10, 2116.30, 2275.10, 1965.80, 2059.50, 1943.40,
    2036.80, 1956.80, 1950.20, 1943.00, 1922.90, 1965.60, 2007.60, 2004.80,        1979.60,
    1972.60, 1909.00, 1907.70, 1938.40, 1944.00,
    1987.00, 2060.00,


XL2 =  775.10, 839.80, 1065.40, 1408.20, 803.30, 942.10, 1577.40, 1231.00, 1795.50, 1249.70,
    1795.40, 990.80, 968.40, 660.40, 72.40, 68.80, 768.00, 774.30,        992.30,
     889.60, 871.40, 678.50, 471.70, 474.50,
    1231.00, 1796.00,


YL2 = 2151.20, 2306.70, 2472.90, 2534.70, 2115.60, 2273.70, 2403.60, 2060.90, 2152.90, 2038.20,
    2128.90, 953.70, 951.50, 1921.90, 1814.10, 1833.50, 2137.50, 2159.20,        2043.20,
    2000.60, 1598.10, 1590.40, 1888.10, 1893.00,
    2061.00, 2153.00,


HL=                 25*0., 0.,
WL=                 44.0, 3*32.0, 3*32.0, 56.0, 32.0, 32.0, 44.0, 44.0, 44.0, 56.0, 44.0, 32.0, 9*12.0, 12.0,
NLANES=             25*1, 1,
CAVG=   25*100, 100,
RAVG=   16*0, 2*52,     48, 2*62, 2*55, 55,
YFAC=   25*3.0, 3.0,
IV=   16*0, 6, 417,     115, 134, 409, 2*547, 18,
VPHL=  4*423, 3*405, 2*1306, 2*1183, 543, 577, 2*1112, 1222, 8*0, 55, 55,
SPEED=  7*30.0, 4*30.0, 2*30.0, 3*30.0, 8*0., 99., 99.,
SFR=    25*1600, 1600,
ST=                 25*1, 1,
AT=                 25*3, 3,
/
F1AB  MERCER SB APP  AG
F1BC  MERCER SB APP  AG
F1CD  MERCER SB APP  AG
F1DE  MERCER SB APP  AG
F2AB  MERCER NB DEP  AG
F2BC  MERCER NB DEP  AG
F2CD  MERCER NB DEP  AG
F3AB  SILVERS WB APP AG
F3BC  SILVERS WB APP AG
F4AB  SILVERS EB DEP AG
F4BC  SILVERS EB DEP AG
F5AB  MERCER NB APP  AG
F6AB  MERCER SB DEP  AG
F7AB  SILVERS EB APP AG
F7BC  SILVERS EB APP AG
F8AB  SILVERS WB DEP AG
Q1AB  MERCER SB R   AG
Q2AB  MERCER SB TL  AG
Q4AB  SILVER  WB L  AG
Q5AB  MERCER NB R   AG
Q6AB  MERCER NB TL  AG
Q7AB  SILVER EB TR  AG
Q8AB  SILVER EB T   AG
Q9AB  SILVER EB L   AG
FQ3AB SILVER  WB TR  AG
FQ3BC SILVER  WB TR  AG
&NAMM
U=  1.,
BRG= 0.,
```

```
ISTAB= 4,
MIXH= 1000.,
AMB8= 3.0,
AMB1= 4.3,
IVAR= 1,
DEGR= 10.,
IVAI= 0,36,
/
```

```
RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2708EX.I5F 08/31/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 29,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR = 1010.91, 980.75, 940.30, 1108.13, 1081.83, 1036.08, 1142.45, 1200.78, 1279.70, 1176.76,
    1233.95, 1311.72, 1158.46, 1180.19, 1209.21, 1067.68, 1089.41, 1113.43, 1040.65, 977.75,
    896.54, 1008.63, 938.86, 865.66, 932.00, 720.40, 846.21, 1050.95, 1060.10,



YR = 631.29, 695.34, 774.26, 681.61, 737.66, 816.58, 669.03, 695.76, 725.50, 583.25,
    614.13, 655.31, 538.64, 468.88, 389.96, 512.34, 439.14, 368.23, 537.08, 511.19,
    478.03, 611.85, 582.53, 550.51, 638.15, 650.73, 870.33, 429.99, 929.81,

ZR= 28*6.0, 6.0,
/
R1 MAIN ST SB APP 3
R2 MAIN ST SB APP 25
R3 MAIN ST SB APP 50
R4 MAIN ST NB DEP 3
R5 MAIN ST NB DEP 25
R6 MAIN ST NB DEP 50
R7 WILL ST WB APP 3
R8 WILL ST WB APP 25
R9 WILL ST WB APP 50
R10 WILL ST EB DEP 3
R11 WILL ST EB DEP 25
R12 WILL ST EB DEP 50
R13 MAIN ST NB APP 3
R14 MAIN ST NB APP 25
R15 MAIN ST NB APP 50
R16 MAIN ST SB DEP 3
R17 MAIN ST SB DEP 25
R18 MAIN ST SB DEP 50
R19 WILL ST EB APP 3
R20 WILL ST EB APP 25
R21 WILL ST EB APP 50
R22 WILL ST WB DEP 3
R23 WILL ST WB DEP 25
R24 WILL ST WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
INT #27 2008 EXISTING FFQ
&NAM2
NL= 34,
NM= 1,
PRINT2= 1,
IQ= 20*1, 8*2, 6*1,
/
&NAML
XL1 = 1066.96, 907.98, 1105.85, 959.45, 1077.25, 1355.19, 1639.98, 1765.79, 1089.83, 1386.07,
    1644.56, 1797.82, 1104.70, 1222.51, 1340.32, 1066.96, 1185.91, 1310.58, 1088.69, 1076.11,
```

```
    1041.80, 1050.95, 1063.53, 1140.16, 1144.73,            1115.00, 1041.80, 1038.36,
    1136.00, 1223.00, 1340.00, 1124.00, 1223.00, 1340.00,


YL1 =  590.11, 910.37, 609.56, 902.36, 616.42, 731.94, 985.85, 1037.32, 586.68, 717.07,
     961.84, 1016.74, 610.70, 242.41, -70.98, 590.11, 225.26, -108.72, 586.68, 617.56,
     631.29, 638.15, 642.73, 651.88, 640.44,            531.78, 559.23, 568.38,
     540.00, 242.0,  -71.00, 536.00, 242.00, -71.00,


XL2 =  907.98, 596.87, 959.45, 632.33, 1355.19, 1639.98, 1765.79, 1946.51, 1386.07, 1644.56,
     1797.82, 1954.51, 1222.51, 1340.32, 1478.71, 1185.91, 1310.58, 1439.82, 258.32, 245.74,
     909.12, 917.13, 927.42, 1356.33, 1362.05,            1203.07, 765.01, 759.29,
    1223.00, 1340.00, 1479.00, 1223.00, 1340.00, 1479.00,


YL2 =  910.37, 1473.09, 902.36, 1485.68, 731.94, 985.85, 1037.32, 1054.48, 717.07, 961.84,
     1016.74, 1023.60, 242.41, -70.98, -314.60, 225.26, -108.72, -332.90, 233.26, 251.56,
     897.78, 902.36, 906.93, 739.95, 733.08,            251.56, 442.57, 451.72,
     242.00, -71.00, -315.00, 242.00, -71.00, -315.00,


HL=                 33*0., 0.,
WL=                 56.0, 11*44.0, 56.0, 7*44.0, 13*12.0, 12.0,
NLANES=             33*1, 1,
CAVG=   33*100, 100,
RAVG=   20*0, 2*70, 91, 2*55,     90, 85, 85,
YFAC=   29*3.0, 3.0,
IV=   20*0, 340, 341, 100, 594, 593,     49, 177, 176,
VPHL=  2*781, 2*776, 4*1187, 4*720, 3*997, 3*1277, 353, 545, 8*0, 5*121, 121,
SPEED=  4*40.0, 8*30.0, 6*40.0, 2*30.0, 8*0., 5*99., 99.,
SFR=    33*1600, 1600,
ST=                 33*1, 1,
AT=                 33*3, 3,
/
F1AB  MAIN ST SB APP AG
F1BC  MAIN ST SB APP AG
F2AB  MAIN ST NB DEP AG
F2BC  MAIN ST NB DEP AG
F3AB  WILL ST WB APP AG
F3BC  WILL ST WB APP AG
F3CD  WILL ST WB APP AG
F3DE  WILL ST WB APP AG
F4AB  WILL ST EB DEP AG
F4BC  WILL ST EB DEP AG
F4CD  WILL ST EB DEP AG
F4DE  WILL ST EB DEP AG
F5AB  MAIN ST NB APP AG
F5BC  MAIN ST NB APP AG
F5CD  MAIN ST NB APP AG
F6AB  MAIN ST SB DEP AG
F6BC  MAIN ST SB DEP AG
F6CD  MAIN ST SB DEP AG
F7AB  WILL ST EB APP AG
F8AB  WILL ST WB DEP AG
Q1AB  MAIN ST SB TR  AG
Q2AB  MAIN ST SB T   AG
Q3AB  MAIN ST SB L   AG
Q4AB  WILL ST WB TR  AG
Q5AB  WILL ST WB LT  AG
Q8AB  MAIN ST NB L   AG
Q9AB  MAIN ST EB TR  AG
Q10AB MAIN ST EB LT  AG
FQ6AB MAIN ST NB TR  AG
FQ6BC MAIN ST NB TR  AG
FQ6CD MAIN ST NB TR  AG
FQ7AB MAIN ST NB T   AG
FQ7BC MAIN ST NB T   AG
FQ7CD MAIN ST NB T   AG
&NAMM
```

```
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

```
RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720Bd.I5F 09/07/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 29,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  1010.91,  980.75,  940.30, 1108.13, 1081.83, 1036.08, 1142.45, 1200.78, 1279.70, 1176.76,
     1233.95, 1311.72, 1163.46, 1190.19, 1214.21, 1067.68, 1089.41, 1113.43, 1035.65,  972.75,
      891.54, 1008.63,  938.86,  865.66,  932.00,  720.40,  846.21, 1050.95, 1060.10,



YR =  631.29,  695.34,  774.26,  681.61,  737.66,  816.58,  679.03,  705.76,  735.50,  583.25,
      614.13,  655.31,  538.64,  468.88,  389.96,  512.34,  439.14,  368.23,  522.08,  496.19,
      463.03,  611.85,  582.53,  550.51,  638.15,  650.73,  870.33,  429.99,  929.81,

ZR=  28*6.0, 6.0,
/
R1 MAIN ST SB APP  3
R2 MAIN ST SB APP 25
R3 MAIN ST SB APP 50
R4 MAIN ST NB DEP  3
R5 MAIN ST NB DEP 25
R6 MAIN ST NB DEP 50
R7 WILL ST WB APP  3
R8 WILL ST WB APP 25
R9 WILL ST WB APP 50
R10 WILL ST EB DEP  3
R11 WILL ST EB DEP 25
R12 WILL ST EB DEP 50
R13 MAIN ST NB APP 3
R14 MAIN ST NB APP 25
R15 MAIN ST NB APP 50
R16 MAIN ST SB DEP 3
R17 MAIN ST SB DEP 25
R18 MAIN ST SB DEP 50
R19 WILL ST EB APP 3
R20 WILL ST EB APP 25
R21 WILL ST EB APP 50
R22 WILL ST WB DEP 3
R23 WILL ST WB DEP 25
R24 WILL ST WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
INT #27 2020 Build FFQ
&NAM2
NL=  41,
NM=  1,
PRINT2=  1,
IQ=  20*1, 13*2, 8*1,
/
&NAML
XL1 =  1066.96,  907.98, 1105.85,  959.45, 1077.25, 1355.19, 1639.98, 1765.79, 1089.83, 1386.07,
      1644.56, 1797.82, 1104.70, 1222.51, 1340.32, 1066.96, 1185.91, 1310.58, 1088.69, 1076.11,
```

```
    1041.80, 1050.95, 1063.53, 1140.16,            1124.15, 1115.00, 1041.80, 1038.36,
    1146.15, 1148.29, 1035.89, 1033.75, 1105.20,
    1145.00, 1355.00, 1640.00, 1766.00, 1136.00, 1355.00, 1640.00, 1766.00,

YL1 =  590.11, 910.37, 609.56, 902.36, 616.42, 731.94, 985.85, 1037.32, 586.68, 717.07,
     961.84, 1016.74, 610.70, 242.41, -70.98, 590.11, 225.26, -108.72, 586.68, 617.56,
     631.29, 638.15, 642.73, 651.88,            536.36, 531.78, 559.23, 568.38,
     634.17, 627.31, 572.83, 577.55, 529.91,
     640.00, 732.00, 986.00, 1037.00, 540.00, 732.00, 986.00, 1037.00,

XL2 =  907.98, 596.87, 959.45, 632.33, 1355.19, 1639.98, 1765.79, 1946.51, 1386.07, 1644.56,
     1797.82, 1954.51, 1222.51, 1340.32, 1478.71, 1185.91, 1310.58, 1439.82, 258.32, 245.74,
     909.12, 917.13, 927.42, 1356.33,            1214.50, 1203.07, 765.01, 759.29,
     1359.79, 1340.48, 757.90, 755.75, 1195.10,
     1355.00, 1640.00, 1766.00, 1947.00, 1355.00, 1640.00, 1766.00, 1947.00,

YL2 =  910.37, 1473.09, 902.36, 1485.68, 731.94, 985.85, 1037.32, 1054.48, 717.07, 961.84,
     1016.74, 1023.60, 242.41, -70.98, -314.60, 225.26, -108.72, -332.90, 233.26, 251.56,
     897.78, 902.36, 906.93, 739.95,            251.56, 251.56, 442.57, 451.72,
     725.12, 710.11, 455.28, 458.71, 248.97,
     732.00, 986.00, 1037.00, 1054.00, 732.00, 986.00, 1037.00, 1054.00,


HL=                 40*0., 0.,
WL=                 56.0, 3*44.0, 68.0, 7*44.0, 68.0, 5*44.0, 68.0, 44.0, 20*12.0, 12.0,
NLANES=             40*1, 1,
CAVG=   40*90, 90,
RAVG=   20*0, 2*59, 74, 34,     61, 47, 2*66, 81, 81, 60, 69, 80,
YFAC=   34*3.0, 3.0,
IV=   20*0, 340, 341, 262, 374,     411, 433, 272, 273, 54, 61, 2*349, 75,
VPHL=  2*943, 2*994, 4*2158, 4*1393, 3*1032, 3*1099, 834, 1481, 13*0, 7*64, 64,
SPEED=  12*30.0, 6*40.0, 2*30.0, 13*0., 7*99., 99.,
SFR=    40*1600, 1600,
ST=                 40*1, 1,
AT=                 40*3, 3,
/
F1AB  MAIN ST SB APP AG
F1BC  MAIN ST SB APP AG
F2AB  MAIN ST NB DEP AG
F2BC  MAIN ST NB DEP AG
F3AB  WILL ST WB APP AG
F3BC  WILL ST WB APP AG
F3CD  WILL ST WB APP AG
F3DE  WILL ST WB APP AG
F4AB  WILL ST EB DEP AG
F4BC  WILL ST EB DEP AG
F4CD  WILL ST EB DEP AG
F4DE  WILL ST EB DEP AG
F5AB  MAIN ST NB APP AG
F5BC  MAIN ST NB APP AG
F5CD  MAIN ST NB APP AG
F6AB  MAIN ST SB DEP AG
F6BC  MAIN ST SB DEP AG
F6CD  MAIN ST SB DEP AG
F7AB  WILL ST EB APP AG
F8AB  WILL ST WB DEP AG
Q1AB  MAIN ST SB TR  AG
Q2AB  MAIN ST SB T   AG
Q3AB  MAIN ST SB L   AG
Q4AB  WILL ST WB R   AG
Q7AB  WILL ST WB L   AG
Q8AB  MAIN ST NB R   AG
Q9AB  MAIN ST NB T   AG
Q10AB MAIN ST NB T   AG
Q11AB WILL ST NB L   AG
Q12AB WILL ST EB R   AG
Q13AB WILL ST EB T   AG
Q14AB WILL ST EB T   AG
Q15AB WILL ST EB L   AG
FQ5AB WILL ST WB T   AG
```

```
FQ5BC WILL ST WB T   AG
FQ5CD WILL ST WB T   AG
FQ5DE WILL ST WB T   AG
FQ6AB WILL ST WB T   AG
FQ6BC WILL ST WB T   AG
FQ6CD WILL ST WB T   AG
FQ6DE WILL ST WB T   AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

```
RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2720NB.I5F 09/07/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 29,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR = 1010.91, 980.75, 940.30, 1108.13, 1081.83, 1036.08, 1142.45, 1200.78, 1279.70, 1176.76,
    1233.95, 1311.72, 1158.46, 1180.19, 1209.21, 1067.68, 1089.41, 1113.43, 1040.65, 977.75,
    896.54, 1008.63, 938.86, 865.66, 932.00, 720.40, 846.21, 1050.95, 1060.10,



YR = 631.29, 695.34, 774.26, 681.61, 737.66, 816.58, 669.03, 695.76, 725.50, 583.25,
    614.13, 655.31, 538.64, 468.88, 389.96, 512.34, 439.14, 368.23, 537.08, 511.19,
    478.03, 611.85, 582.53, 550.51, 638.15, 650.73, 870.33, 429.99, 929.81,

ZR= 28*6.0, 6.0,
/
R1 MAIN ST SB APP 3
R2 MAIN ST SB APP 25
R3 MAIN ST SB APP 50
R4 MAIN ST NB DEP 3
R5 MAIN ST NB DEP 25
R6 MAIN ST NB DEP 50
R7 WILL ST WB APP 3
R8 WILL ST WB APP 25
R9 WILL ST WB APP 50
R10 WILL ST EB DEP 3
R11 WILL ST EB DEP 25
R12 WILL ST EB DEP 50
R13 MAIN ST NB APP 3
R14 MAIN ST NB APP 25
R15 MAIN ST NB APP 50
R16 MAIN ST SB DEP 3
R17 MAIN ST SB DEP 25
R18 MAIN ST SB DEP 50
R19 WILL ST EB APP 3
R20 WILL ST EB APP 25
R21 WILL ST EB APP 50
R22 WILL ST WB DEP 3
R23 WILL ST WB DEP 25
R24 WILL ST WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
R27 HOUSE 3
R28 HOUSE 4
R29 HOUSE 5
INT #27 2020 No Build FFQ
&NAM2
NL= 41,
NM= 1,
PRINT2= 1,
IQ= 20*1, 3*2, 18*1,
/
&NAML
XL1 = 1066.96, 907.98, 1105.85, 959.45, 1077.25, 1355.19, 1639.98, 1765.79, 1089.83, 1386.07,
    1644.56, 1797.82, 1104.70, 1222.51, 1340.32, 1066.96, 1185.91, 1310.58, 1088.69, 1076.11,
```

```
    1041.80, 1050.95,                                  1115.00,
    1064.00,  908.00, 1140.00, 1355.00, 1640.00, 1766.00, 1145.00, 1355.00, 1640.00, 1766.00
    1136.00, 1223.00, 1340.00, 1124.00, 1223.00, 1340.00, 1042.00, 1038.00,


YL1 =  590.11,  910.37,  609.56,  902.36,  616.42,  731.94,  985.85, 1037.32,  586.68,  717.07,
     961.84, 1016.74,  610.70,  242.41,  -70.98,  590.11,  225.26, -108.72,  586.68,  617.56,
     631.29,  638.15,                                   531.78,
     643.00,  910.00,  652.00,  732.00,  986.00, 1037.00,  640.00,  732.00,  986.00, 1037.00
     540.00,  242.00,  -71.00,  536.00,  242.00,  -71.00,  559.00,  568.00,


XL2 =  907.98,  596.87,  959.45,  632.33, 1355.19, 1639.98, 1765.79, 1946.51, 1386.07, 1644.56,
     1797.82, 1954.51, 1222.51, 1340.32, 1478.71, 1185.91, 1310.58, 1439.82,  258.32,  245.74,
     909.12,  917.13,                                   1203.07,
     908.00,  597.00, 1355.00, 1640.00, 1766.00, 1947.00, 1355.00, 1640.00, 1766.00, 1947.00,
    1223.00, 1340.00, 1479.00, 1223.00, 1340.00, 1479.00,  258.00,  258.00,



YL2 =  910.37, 1473.09,  902.36, 1485.68,  731.94,  985.85, 1037.32, 1054.48,  717.07,  961.84,
    1016.74, 1023.60,  242.41,  -70.98, -314.60,  225.26, -108.72, -332.90,  233.26,  251.56,
     897.78,  902.36,                                   251.56,
     910.00, 1473.00,  732.00,  986.00, 1037.00, 1054.00,  732.00,  986.00, 1037.00, 1054.00,
     242.00,  -71.00, -315.00,  242.00,  -71.00, -315.00,  233.00,  233.00


HL=                    40*0., 0.,
WL=                    56.0, 11*44.0, 56.0, 7*44.0, 20*12.0, 12.0,
NLANES=                40*1, 1,
CAVG=   40*90, 90,
RAVG=   20*0, 2*64,              81,
YFAC=   40*3.0, 3.0,
IV=   20*0, 340, 341,       54,
VPHL=  2*943, 2*994, 4*3258, 4*1893, 3*1532, 3*2199, 834, 1481, 3*0, 2*104, 4*67, 4*67, 3*82, 3*82, 94, 94,
SPEED=  12*30.0, 6*40.0, 2*30.0, 3*0., 17*99., 99.,
SFR=      40*1600, 1600,
ST=                    40*1, 1,
AT=                    40*3, 3,
/
F1AB  MAIN ST SB APP AG
F1BC  MAIN ST SB APP AG
F2AB  MAIN ST NB DEP AG
F2BC  MAIN ST NB DEP AG
F3AB  WILL ST WB APP AG
F3BC  WILL ST WB APP AG
F3CD  WILL ST WB APP AG
F3DE  WILL ST WB APP AG
F4AB  WILL ST EB DEP AG
F4BC  WILL ST EB DEP AG
F4CD  WILL ST EB DEP AG
F4DE  WILL ST EB DEP AG
F5AB  MAIN ST NB APP AG
F5BC  MAIN ST NB APP AG
F5CD  MAIN ST NB APP AG
F6AB  MAIN ST SB DEP AG
F6BC  MAIN ST SB DEP AG
F6CD  MAIN ST SB DEP AG
F7AB  WILL ST EB APP AG
F8AB  WILL ST WB DEP AG
Q1AB  MAIN ST SB TR  AG
Q2AB  MAIN ST SB T   AG
Q8AB  MAIN ST NB L   AG
FQ3AB MAIN ST SB L   AG
FQ3BC MAIN ST SB L   AG
FQ4AB WILL ST WB TR  AG
FQ4BC WILL ST WB TR  AG
FQ4CD WILL ST WB TR  AG
FQ4DE WILL ST WB TR  AG
FQ5AB WILL ST WB LT  AG
```

```
FQ5BC WILL ST WB LT  AG
FQ5CD WILL ST WB LT  AG
FQ5DE WILL ST WB LT  AG
FQ6AB MAIN ST NB TR  AG
FQ6BC MAIN ST NB TR  AG
FQ6CD MAIN ST NB TR  AG
FQ7AB MAIN ST NB T   AG
FQ7BC MAIN ST NB T   AG
FQ7CD MAIN ST NB T   AG
FQ9AB WILL ST EB TR  AG
FQ10AB WIL ST EB LT  AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

```
RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120BD.I5F 09/06/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 26,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  2394.60, 2382.70, 2365.60, 2470.60, 2456.10, 2442.90, 2493.30, 2564.00, 2637.80, 2508.70,
    2582.60, 2656.40, 2496.90, 2508.70, 2523.90, 2418.00, 2429.90, 2444.90, 2390.60, 2321.50,
    2238.70, 2369.30, 2307.40, 2222.50, 2881.30, 2702.90,



YR =  5866.10, 5940.90, 6013.80, 5880.10, 5950.50, 6023.80, 5862.80, 5873.90, 5887.50, 5781.90,
    5791.90, 5804.20, 5757.20, 5686.40, 5605.80, 5745.40, 5674.80, 5600.40, 5754.40, 5738.60,
    5719.20, 5841.10, 5821.50, 5797.70, 6023.60, 5488.30,



ZR=  25*6.0, 6.0,
/
R1 AIRCRFT SB APP  3
R2 AIRCRFT SB APP 25
R3 AIRCRFT SB APP 50
R4 AIRCRFT NB DEP  3
R5 AIRCRFT NB DEP 25
R6 AIRCRFT NB DEP 50
R7 WILLOW  WB APP  3
R8 WILLOW  WB APP 25
R9 WILLOW  WB APP 50
R10 WILLOW EB DEP  3
R11 WILLOW EB DEP 25
R12 WILLOW EB DEP 50
R13 AIRCRFT NB APP 3
R14 AIRCRFT NB APP 25
R15 AIRCRFT NB APP 50
R16 AIRCRFT SB DEP 3
R17 AIRCRFT SB DEP 25
R18 AIRCRFT SB DEP 50
R19 WILLOW  EB APP 3
R20 WILLOW  EB APP 25
R21 WILLOW  EB APP 50
R22 WILLOW  WB DEP 3
R23 WILLOW  WB DEP 25
R24 WILLOW  WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
INT #31 2020  BUILD  FFQ
&NAM2
NL=  21,
NM=  1,
PRINT2=  1,
IQ=  14*1, 6*2, 1,
/
&NAML
XL1 =  2435.30, 2365.80, 2380.80, 2457.70, 2395.50, 2404.40, 2444.90, 2450.30, 2457.70, 2434.70,
     2448.10, 2195.20, 2447.10, 2200.50, 2418.00, 2429.90,        2494.50, 2463.20, 2394.30,
     2390.00,
```

```
    2489.00,

YL1 =  5805.50, 6160.20, 6580.60, 5811.00, 6158.60, 6574.10, 5820.60, 5792.90, 5810.00, 5807.10,
    5791.80, 5732.00, 5820.60, 5756.60, 5857.90, 5861.10,        5824.50, 5762.00, 5780.30,
    5796.50,
    5840.00,

XL2 =  2365.50, 2380.40, 2426.80, 2395.80, 2404.00, 2450.30, 3441.70, 3446.00, 2630.60, 2604.40,
    2196.30, 1546.30, 2200.50, 1528.20, 2363.10, 2372.80,        2788.60, 2519.30, 2202.50,
    2224.10,
    3442.00,

YL2 =  6160.80, 6581.20, 6791.10, 6158.90, 6574.90, 6777.90, 5988.20, 5961.50, 4854.80, 4848.70,
    5733.10, 5363.90, 5757.70, 5393.70, 6145.50, 6146.60,        5877.30, 5468.90, 5736.10,
    5749.10,
    5988.00,

HL=                 20*0., 0.,
WL=                 3*44.0, 3*44.0, 44.0, 44.0, 32.0 44.0, 2*44.0, 44.0, 44.0, 6*12.0, 12.0,
NLANES=             20*1, 1,
CAVG=   20*120, 120,
RAVG=   14*0, 2*97,    43, 97, 23, 23,
YFAC=   20*3.0, 3.0,
IV=   14*0, 131, 35,    464, 131, 998, 426,
VPHL=  3*166, 3*227, 1887, 1358, 131, 33, 2*1424, 2*1990,  6*0, 41
SPEED=  14*30.0, 6*0., 99.,
SFR=    20*1600, 1600,
ST=                 20*1, 1,
AT=                 20*3, 3,
/
F1AB  AIRCRFT SB APP AG
F1BC  AIRCRFT SB APP AG
F1CD  AIRCRFT SB APP AG
F2AB  AIRCRFT NB DEP AG
F2BC  AIRCRFT NB DEP AG
F2CD  AIRCRFT NB DEP AG
F3AB  WILLOW  WB APP AG
F4AB  WILLOW  EB DEP AG
F5AB  AIRCRFT NB APP AG
F6AB  AIRCRFT SB DEP AG
F7AB  WILLOW  EB APP AG
F7BC  WILLOW  EB APP AG
F8AB  WILLOW  WB DEP AG
F8BC  WILLOW  WB DEP AG
Q1AB  AIRCRFT SB TR  AG
Q2AB  AIRCRFT SB L   AG
Q4AB  WILLOW  WB TL  AG
Q5AB  AIRCRFT NB TLR AG
Q6AB  WILLOW  EB TR  AG
Q7AB  WILLOW  EB TL  AG
FQ3AB WILLOW  WB TR  AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0, 36,
/
```

```
RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120NB.I5F 09/06/06
&NAM1
ATIM= 60.,
Z0= 108.,
VS= 0.,
VD= 0.,
NR= 26,
SCAL= 0.3048,
IWDSK=1,
IRDU=1,
IC=1,
MOWT= 28.,
I8=1,
PFAC= 0.7,
IOPT=1,
IDEBUG=0,
IUGM=0,
/
&NAMR
XR =  2394.60, 2382.70, 2365.60, 2470.60, 2456.10, 2442.90, 2493.30, 2564.00, 2637.80, 2508.70,
    2582.60, 2656.40, 2496.90, 2508.70, 2523.90, 2418.00, 2429.90, 2444.90, 2390.60, 2321.50,
    2238.70, 2369.30, 2307.40, 2222.50, 2881.30, 2702.90,



YR =  5866.10, 5940.90, 6013.80, 5880.10, 5950.50, 6023.80, 5862.80, 5873.90, 5887.50, 5781.90,
    5791.90, 5804.20, 5757.20, 5686.40, 5605.80, 5745.40, 5674.80, 5600.40, 5754.40, 5738.60,
    5719.20, 5841.10, 5821.50, 5797.70, 6023.60, 5488.30,



ZR=  25*6.0, 6.0,
/
R1 AIRCRFT SB APP  3
R2 AIRCRFT SB APP 25
R3 AIRCRFT SB APP 50
R4 AIRCRFT NB DEP  3
R5 AIRCRFT NB DEP 25
R6 AIRCRFT NB DEP 50
R7 WILLOW  WB APP  3
R8 WILLOW  WB APP 25
R9 WILLOW  WB APP 50
R10 WILLOW EB DEP  3
R11 WILLOW EB DEP 25
R12 WILLOW EB DEP 50
R13 AIRCRFT NB APP 3
R14 AIRCRFT NB APP 25
R15 AIRCRFT NB APP 50
R16 AIRCRFT SB DEP 3
R17 AIRCRFT SB DEP 25
R18 AIRCRFT SB DEP 50
R19 WILLOW  EB APP 3
R20 WILLOW  EB APP 25
R21 WILLOW  EB APP 50
R22 WILLOW  WB DEP 3
R23 WILLOW  WB DEP 25
R24 WILLOW  WB DEP 50
R25 HOUSE 1
R26 HOUSE 2
INT #31 2020 NO BUILD FFQ
&NAM2
NL=  22,
NM=  1,
PRINT2=  1,
IQ=  14*1, 4*2, 4*1,
/
&NAML
XL1 =  2435.30, 2365.80, 2380.80, 2457.70, 2395.50, 2404.40, 2444.90, 2450.30, 2457.70, 2434.70,
     2448.10, 2195.20, 2447.10, 2200.50, 2418.00, 2429.90,              2463.20,
     2390.00,
```

```
    2489.00, 2495.00, 2394.00, 2195.00,


YL1 =  5805.50, 6160.20, 6580.60, 5811.00, 6158.60, 6574.10, 5820.60, 5792.90, 5810.00, 5807.10,
    5791.80, 5732.00, 5820.60, 5756.60, 5857.90, 5861.10,              5762.00,
    5796.50,
    5840.00, 5825.00, 5780.00, 5732.00,


XL2 =  2365.50, 2380.40, 2426.80, 2395.80, 2404.00, 2450.30, 3441.70, 3446.00, 2630.60, 2604.40,
    2196.30, 1546.30, 2200.50, 1528.20, 2363.10, 2372.80,              2519.30,
    2224.10,
    3442.00, 3442.00, 2196.00, 1546.00,


YL2 =  6160.80, 6581.20, 6791.10, 6158.90, 6574.90, 6777.90, 5988.20, 5961.50, 4854.80, 4848.70,
    5733.10, 5363.90, 5757.70, 5393.70, 6145.50, 6146.60,              5468.90,
    5749.10,
    5988.00, 5988.00, 5733.00, 5364.00,


HL=                 21*0., 0.,
WL=                 3*44.0, 3*44.0, 44.0, 44.0, 32.0 44.0, 2*44.0, 44.0, 44.0,  7*12.0, 12.0,
NLANES=             21*1, 1,
CAVG=   21*110, 110,
RAVG=   14*0, 2*90,    90,    20,
YFAC=   21*3.0, 3.0,
IV=    14*0, 139, 37,          139,    691,
VPHL=  3*176, 3*889, 4612, 1927, 139, 35, 2*2114, 2*4190,  4*0, 2*42, 21, 21
SPEED=  14*30.0, 4*0., 3*99., 99.,
SFR=       21*1600, 1600,
ST=                 21*1, 1,
AT=                 21*3, 3,
/
F1AB  AIRCRFT SB APP AG
F1BC  AIRCRFT SB APP AG
F1CD  AIRCRFT SB APP AG
F2AB  AIRCRFT NB DEP AG
F2BC  AIRCRFT NB DEP AG
F2CD  AIRCRFT NB DEP AG
F3AB  WILLOW  WB APP AG
F4AB  WILLOW  EB DEP AG
F5AB  AIRCRFT NB APP AG
F6AB  AIRCRFT SB DEP AG
F7AB  WILLOW  EB APP AG
F7BC  WILLOW  EB APP AG
F8AB  WILLOW  WB DEP AG
F8BC  WILLOW  WB DEP AG
Q1AB  AIRCRFT SB TR  AG
Q2AB  AIRCRFT SB L   AG
Q5AB  AIRCRFT NB TLR AG
Q7AB  WILLOW  EB TL  AG
FQ3AB WILLOW  WB TR  AG
FQ4AB WILLOW  WB TL  AG
FQ6AB WILLOW  EB TR  AG
FQ6BC WILLOW  EB TR  AG
&NAMM
U=  1.,
BRG= 0.,
ISTAB= 4,
MIXH= 1000.,
AMB8=  3.0,
AMB1=  4.3,
IVAR=  1,
DEGR=  10.,
IVAI=  0,36,
/
```

CAL3QHC Output Files

Intersection 7, 2008 Existing - FR0708EX.o6F
Intersection 7, 2020 Build - FR0720BD.o6F
Intersection 7, 2020 No Build - FR0720NB.o6F
Intersection 8, 2008 Existing - FR0808EX.o61
Intersection 8, 2020 Build - FR0820BD.o61
Intersection 8, 2020 No Build - FR0820NB.o6F
Intersection 27, 2008 Existing - FR2708EX.o6F
Intersection 27, 2020 Build - FR2720BD.o6F
Intersection 27, 2020 No Build - FR2720NB.o6F
Intersection 31, 2020 Build - FR3120BD.o6F
Intersection 31, 2020 No Build - FR3120NB.o6F

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB ROBERTS SB APP	*	2692.	2408.	2649.	2692.	*	286.	351.	AG	1215.	40.0	11.8	.0	68.0		
2. F1BC ROBERTS SB APP	*	2649.	2692.	2612.	2932.	*	243.	351.	AG	1215.	40.0	11.8	.0	44.0		
3. F1CD ROBERTS SB APP	*	2610.	2927.	2625.	3152.	*	225.	4.	AG	1215.	40.0	11.8	.0	44.0		
4. F1DE ROBERTS SB APP	*	2623.	3148.	2668.	3381.	*	237.	11.	AG	1215.	40.0	11.8	.0	44.0		
5. F2AB ROBERTS NB DEP	*	2740.	2411.	2632.	2960.	*	559.	349.	AG	1781.	40.0	11.8	.0	44.0		
6. F2BC ROBERTS NB DEP	*	2632.	2956.	2710.	3401.	*	452.	10.	AG	1781.	40.0	11.8	.0	44.0		
7. F3AB SILVERS WB APP	*	2710.	2428.	3082.	2498.	*	378.	79.	AG	761.	40.0	11.8	.0	80.0		
8. F3BC SILVERS WB APP	*	3081.	2499.	3717.	2400.	*	644.	99.	AG	761.	40.0	11.8	.0	44.0		
9. F4AB SILVERS EB DEP	*	2718.	2396.	3161.	2467.	*	449.	81.	AG	1250.	40.0	11.8	.0	44.0		
10. F4BC SILVERS EB DEP	*	3164.	2465.	3719.	2380.	*	561.	99.	AG	1250.	40.0	11.8	.0	44.0		
11. F5AB ROBERTS NB APP	*	2740.	2413.	2814.	2013.	*	407.	170.	AG	2041.	30.0	11.4	.0	92.0		
12. F5BC ROBERTS NB APP	*	2813.	2012.	2696.	1733.	*	302.	203.	AG	2041.	30.0	11.4	.0	44.0		
13. F5CD ROBERTS NB APP	*	2695.	1733.	2502.	1541.	*	272.	225.	AG	2041.	30.0	11.4	.0	44.0		
14. F6AB ROBERTS SB DEP	*	2693.	2407.	2767.	1995.	*	419.	170.	AG	909.	30.0	11.4	.0	44.0		
15. F6BC ROBERTS SB DEP	*	2766.	1994.	2671.	1765.	*	248.	202.	AG	1099.	30.0	11.4	.0	44.0		
16. F6CD ROBERTS SB DEP	*	2670.	1765.	2490.	1564.	*	270.	222.	AG	1099.	30.0	11.4	.0	44.0		
17. F7AB SILVERS EB APP	*	2714.	2395.	2435.	2348.	*	283.	261.	AG	890.	40.0	11.8	.0	68.0		
18. F7BC SILVERS EB APP	*	2427.	2344.	1720.	2239.	*	715.	262.	AG	1080.	40.0	11.8	.0	44.0		
19. F8AB SILVERS WB DEP	*	2709.	2428.	1700.	2260.	*	1022.	261.	AG	967.	40.0	11.8	.0	32.0		
20. F9AB ROBERTS SB RT	*	2649.	2419.	2604.	2713.	*	297.	351.	AG	323.	40.0	11.8	.0	32.0		
21. F9BC ROBERTS SB RT	*	2604.	2709.	2484.	2831.	*	171.	315.	AG	323.	40.0	11.8	.0	32.0		
22. F9CD ROBERTS SB RT	*	2481.	2829.	2292.	2921.	*	210.	296.	AG	323.	40.0	11.8	.0	32.0		
23. F10AB SILVER EB RAMP	*	2763.	2001.	2694.	2238.	*	247.	344.	AG	190.	40.0	11.8	.0	32.0		
24. F10BC SILVER EB RAMP	*	2693.	2236.	2626.	2325.	*	111.	323.	AG	190.	40.0	11.8	.0	32.0		
25. F10CD SILVER EB RAMP	*	2626.	2323.	2436.	2345.	*	192.	277.	AG	190.	40.0	11.8	.0	32.0		
26. Q1AB ROBERTS SB R	*	2647.	2483.	2638.	2548.	*	65.	352.	AG	86.	.0	100.0	.0	12.0	.46	3.3
27. Q2AB ROBERTS SB T	*	2662.	2491.	2651.	2578.	*	88.	352.	AG	117.	.0	100.0	.0	12.0	.72	4.5
28. Q3AB ROBERTS SB T	*	2677.	2488.	2664.	2574.	*	88.	351.	AG	117.	.0	100.0	.0	12.0	.72	4.5
29. Q6AB SILVER WB R	*	2793.	2462.	2822.	2468.	*	30.	80.	AG	93.	.0	100.0	.0	12.0	.21	1.5

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30. Q7AB  SILVER  WB T  *  2795.   2452.   2840.   2460. *    45.   80. AG   117.   .0 100.0   .0 12.0  .39  2.3
31. Q8AB  SILVER  WB T  *  2793.   2443.   2838.   2451. *    46.   80. AG   117.   .0 100.0   .0 12.0  .39  2.3
32. Q9AB  SILVER  WB L  *  2796.   2439.   2866.   2452. *    72.   79. AG   145.   .0 100.0   .0 12.0  .86  3.6
33. Q10AB  SILVER  WB L *  2797.   2431.   2869.   2445. *    73.   79. AG   145.   .0 100.0   .0 12.0  .86  3.7
34. Q11AB  ROBERTS NB R *  2777.   2358.   2791.   2281. *    78.  170. AG    82.   .0 100.0   .0 12.0  .54  3.9
35. Q12AB  ROBERTS NB T *  2766.   2358.   2796.   2186. *   175.  170. AG   112.   .0 100.0   .0 12.0  .94  8.9
36. Q13AB  ROBERTS NB T *  2759.   2353.   2787.   2179. *   177.  171. AG   112.   .0 100.0   .0 12.0  .94  9.0
37. Q14AB  ROBERTS NB T *  2754.   2352.   2779.   2177. *   177.  172. AG   112.   .0 100.0   .0 12.0  .94  9.0
38. Q15AB  ROBERTS NB L *  2747.   2352.   2776.   2169. *   185.  171. AG   147.   .0 100.0   .0 12.0 1.05  9.4
39. Q16AB  ROBERTS NB L *  2735.   2352.   2770.   2181. *   175.  168. AG   147.   .0 100.0   .0 12.0 1.04  8.9
40. Q17AB  SILVER EB R  *  2469.   2335.   2431.   2331. *    38.  264. AG    86.   .0 100.0   .0 12.0  .27  2.0
41. Q18AB  SILVER EB T  *  2633.   2374.   2556.   2362. *    78.  261. AG   117.   .0 100.0   .0 12.0  .67  4.0
42. Q19AB  SILVER EB T  *  2633.   2383.   2557.   2370. *    78.  260. AG   117.   .0 100.0   .0 12.0  .67  3.9
43. Q20AB  SILVER EB L  *  2626.   2395.   2529.   2377. *    98.  259. AG   145.   .0 100.0   .0 12.0  .95  5.0
44. Q21AB  SILVER EB L  *  2630.   2403.   2536.   2385. *    96.  259. AG   145.   .0 100.0   .0 12.0  .94  4.9
1
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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

LINK VARIABLES

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  LINK DESCRIPTION    *    LINK COORDINATES (FT)      *  LENGTH  BRG TYPE  VOL  SPEED  EF    H  W   V/C QUEUE
                  *  X1      Y1      X2      Y2  *   (FT)  (DEG)    (VPH) (MPH) (G/MI)  (FT) (FT)    (VEH)
-----------------------*-----------------------------------*-----------------------------------------------------
45. FQ4AB ROBERTS SB L  *  2686.   2495.   2649.   2692. *   200.  349. AG   152.  99.0 100.0   .0 12.0
46. FQ4BC ROBERTS SB L  *  2649.   2692.   2612.   2932. *   243.  351. AG   152.  99.0 100.0   .0 12.0
47. FQ4CD ROBERTS SB L  *  2610.   2927.   2625.   3152. *   225.    4. AG   152.  99.0 100.0   .0 12.0
48. FQ4DE ROBERTS SB L  *  2632.   3148.   2668.   3381. *   236.    9. AG   152.  99.0 100.0   .0 12.0
49. FQ5AB ROBERTS SB L  *  2695.   2495.   2649.   2692. *   202.  347. AG   152.  99.0 100.0   .0 12.0
50. FQ5BC ROBERTS SB L  *  2649.   2692.   2612.   2932. *   243.  351. AG   152.  99.0 100.0   .0 12.0
51. FQ5CD ROBERTS SB L  *  2610.   2927.   2625.   3152. *   225.    4. AG   152.  99.0 100.0   .0 12.0
52. FQ5DE ROBERTS SB L  *  2632.   3148.   2668.   3381. *   236.    9. AG   152.  99.0 100.0   .0 12.0
1
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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

ADDITIONAL QUEUE LINK PARAMETERS

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  LINK DESCRIPTION    *   CYCLE   RED   CLEARANCE  APPROACH  SATURATION  IDLE  SIGNAL  ARRIVAL  NO.OF
                  *   LENGTH  TIME   LOST TIME   VOL    FLOW RATE  EM FAC  TYPE    RATE    LANES
                  *    (SEC)  (SEC)   (SEC)    (VPH)    (VPH)   (gm/hr)
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26. Q1AB ROBERTS SB R *	75	37	3.0	323	1600	65.21	1	3	1
27. Q2AB ROBERTS SB T *	75	50	3.0	308	1600	65.21	1	3	1
28. Q3AB ROBERTS SB T *	75	50	3.0	308	1600	65.21	1	3	1
29. Q6AB SILVER WB R *	75	40	3.0	135	1600	65.21	1	3	1
30. Q7AB SILVER WB T *	75	50	3.0	166	1600	65.21	1	3	1
31. Q8AB SILVER WB T *	75	50	3.0	167	1600	65.21	1	3	1
32. Q9AB SILVER WB L *	75	62	3.0	146	1600	65.21	1	3	1
33. Q10AB SILVER WB L *	75	62	3.0	147	1600	65.21	1	3	1
34. Q11AB ROBERTS NB R *	75	35	3.0	405	1600	65.21	1	3	1
35. Q12AB ROBERTS NB T *	75	48	3.0	441	1600	65.21	1	3	1
36. Q13AB ROBERTS NB T *	75	48	3.0	442	1600	65.21	1	3	1
37. Q14AB ROBERTS NB T *	75	48	3.0	442	1600	65.21	1	3	1
38. Q15AB ROBERTS NB L *	75	63	3.0	156	1600	65.21	1	3	1
39. Q16AB ROBERTS NB L *	75	63	3.0	155	1600	65.21	1	3	1
40. Q17AB SILVER EB R *	75	37	3.0	190	1600	65.21	1	3	1
41. Q18AB SILVER EB T *	75	50	3.0	285	1600	65.21	1	3	1
42. Q19AB SILVER EB T *	75	50	3.0	284	1600	65.21	1	3	1
43. Q20AB SILVER EB L *	75	62	3.0	161	1600	65.21	1	3	1
44. Q21AB SILVER EB L *	75	62	3.0	160	1600	65.21	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 ROBERTS SB APP 3 *	2620.8	2495.4	6.0
2. R2 ROBERTS SB APP 25 *	2609.6	2565.1	6.0
3. R3 ROBERTS SB APP 50 *	2594.6	2645.3	6.0
4. R4 ROBERTS NB DEP 3 *	2746.1	2514.4	6.0
5. R5 ROBERTS NB DEP 25 *	2731.8	2582.4	6.0
6. R6 ROBERTS NB DEP 50 *	2717.5	2659.8	6.0
7. R7 SILVER WB APP 3 *	2793.0	2489.3	6.0
8. R8 SILVER WB APP 25 *	2874.9	2497.6	6.0
9. R9 SILVER WB APP 50 *	2945.1	2511.6	6.0
10. R10 SILVER EB DEP 3 *	2816.9	2373.9	6.0
11. R11 SILVER EB DEP 25 *	2895.5	2389.0	6.0
12. R12 SILVER EB DEP 50 *	2971.3	2405.1	6.0
13. R13 ROBERTS NB APP 3 *	2817.6	2355.4	6.0
14. R14 ROBERTS NB APP 2 *	2832.1	2280.3	6.0
15. R15 ROBERTS NB APP 5 *	2840.2	2201.5	6.0
16. R16 ROBERTS SB DEP 3 *	2670.5	2236.1	6.0
17. R17 ROBERTS SB DEP 2 *	2685.9	2183.6	6.0
18. R18 ROBERTS SB DEP 5 *	2726.8	2032.2	6.0
19. R19 SILVER EB APP 3 *	2612.2	2296.1	6.0
20. R20 SILVER EB APP 2 *	2558.6	2302.4	6.0

21. R21 SILVER EB APP 5	*	2480.6	2300.3	6.0	*
22. R22 SILVER WB DEP 3	*	2592.9	2445.9	6.0	*
23. R23 SILVER WB DEP 2	*	2540.4	2433.3	6.0	*
24. R24 SILVER WB DEP 5	*	2464.2	2411.6	6.0	*
25. R25 HOUSE 1	*	2520.2	2481.7	6.0	*
26. R26 HOUSE 2	*	2215.1	2415.3	6.0	*

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z	*
27. R27 HOUSE 3	*	2953.1	2586.9	6.0	*
28. R28 HOUSE 4	*	3075.8	2558.3	6.0	*
29. R29 HOUSE 5	*	3294.4	2550.1	6.0	*
30. R30 HOUSE 6	*	3227.2	2368.9	6.0	*
31. R31 HOUSE 7	*	2128.8	2253.9	6.0	*

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND * CONCENTRATION
ANGLE * (PPM)

(DEGR)*	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	5.9	6.0	5.9	4.4	4.4	4.5	4.3	4.3	4.3	5.5	4.9	4.9	5.2	4.8	4.5	5.5	5.6	6.0	6.0	5.7
20. *	6.0	5.7	5.5	4.3	4.4	4.3	4.3	4.3	4.3	5.2	4.9	4.9	5.0	4.6	4.5	5.5	5.8	6.1	5.3	5.8
30. *	6.1	5.6	5.5	4.3	4.3	4.3	4.3	4.3	4.3	5.1	4.9	5.0	5.0	4.6	4.5	5.5	5.8	5.4	5.1	5.8

40. *	6.1	5.5	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.0	5.0	4.8	4.6	4.4	5.8	6.0	5.3	5.3	5.4
50. *	5.9	5.4	5.4	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	5.1	4.9	4.6	4.5	5.8	6.0	5.2	5.2	5.4
60. *	6.0	5.4	5.2	4.3	4.3	4.3	4.3	4.4	4.4	5.0	5.0	5.1	4.8	4.6	4.5	5.7	5.7	5.2	5.1	5.2
70. *	5.9	5.5	5.4	4.3	4.3	4.3	4.4	4.4	4.4	5.1	5.1	5.0	4.9	4.6	4.5	5.8	5.6	5.1	5.3	5.1
80. *	5.8	5.6	5.4	4.4	4.3	4.3	4.7	4.7	4.6	4.8	4.8	4.9	4.6	4.5	4.4	5.6	5.6	5.1	5.6	5.0
90. *	6.0	5.7	5.4	4.7	4.3	4.3	4.9	4.9	5.0	4.6	4.6	4.7	4.5	4.3	4.3	5.4	5.4	5.2	5.3	5.1
100. *	5.8	6.1	5.6	4.9	4.7	4.5	5.0	5.1	5.2	4.3	4.4	4.4	4.3	4.3	4.3	5.5	5.1	5.2	5.3	5.1
110. *	5.6	6.1	5.7	4.9	4.7	4.6	5.2	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.5	5.1	5.1	5.3	5.0
120. *	5.5	6.1	5.6	5.0	4.5	4.6	5.3	4.9	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.1	5.1	5.3	4.9
130. *	5.7	6.1	5.9	5.2	4.5	4.5	5.5	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.1	5.0	4.9	4.6
140. *	6.2	5.9	6.1	5.1	4.8	4.5	5.6	4.9	4.7	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.1	5.1	4.9	4.6
150. *	6.1	6.1	5.8	5.1	4.9	4.6	5.7	4.8	4.7	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	5.0	4.6	4.7
160. *	5.7	5.7	5.8	5.3	5.0	5.0	5.8	4.8	4.7	4.4	4.3	4.3	4.4	4.4	4.4	5.0	5.0	5.1	4.6	4.5
170. *	5.2	5.1	5.0	6.3	6.2	5.9	5.7	4.9	4.8	4.6	4.3	4.3	4.7	4.6	4.6	4.7	4.7	5.0	4.5	4.5
180. *	5.3	4.8	4.6	6.6	6.2	6.1	6.4	5.2	4.7	5.2	4.5	4.3	5.0	4.8	4.9	4.6	4.6	5.0	4.4	4.4
190. *	5.1	4.7	4.5	6.3	6.0	6.3	6.0	5.5	4.9	5.9	4.6	4.4	5.9	5.4	5.3	4.4	4.5	4.9	4.4	4.3
200. *	5.1	4.7	4.5	5.9	6.1	6.4	5.9	6.3	5.1	6.0	5.0	4.5	6.1	5.6	5.4	4.3	4.4	4.7	4.3	4.3
210. *	4.8	4.5	4.5	5.8	6.0	6.3	5.4	6.3	5.3	6.0	5.3	4.7	6.0	5.5	5.3	4.3	4.3	4.5	4.3	4.3
220. *	4.8	4.6	4.5	5.7	6.3	6.1	5.4	6.1	5.6	6.0	5.2	4.6	6.0	5.6	5.0	4.3	4.3	4.3	4.3	4.3
230. *	4.7	4.5	4.5	5.8	6.3	5.9	5.6	5.8	5.4	5.6	5.2	5.1	5.8	5.6	4.9	4.3	4.3	4.3	4.3	4.3
240. *	4.7	4.5	4.5	5.9	6.1	5.8	5.8	5.8	5.6	5.5	5.3	5.1	5.7	5.6	5.0	4.3	4.3	4.3	4.3	4.3
250. *	4.6	4.5	4.3	5.9	6.0	5.8	5.7	5.7	5.5	5.6	5.4	4.9	5.5	5.6	5.4	4.3	4.3	4.3	4.3	4.3
260. *	4.5	4.3	4.3	6.1	5.9	5.7	5.4	5.2	5.2	5.6	5.2	5.2	5.8	5.8	5.5	4.3	4.3	4.3	4.5	4.6
270. *	4.3	4.3	4.3	5.9	5.6	5.6	5.3	4.9	4.8	5.8	5.5	5.6	6.0	5.9	5.6	4.5	4.4	4.3	4.6	4.6
280. *	4.3	4.3	4.3	5.9	5.6	5.6	5.3	4.9	4.9	6.0	5.4	5.7	5.7	6.0	5.9	4.5	4.5	4.3	4.8	4.8
290. *	4.3	4.3	4.3	5.9	5.7	5.7	5.3	4.8	4.8	5.8	5.7	5.6	5.6	5.9	6.1	4.6	4.5	4.5	4.9	4.9
300. *	4.3	4.3	4.3	5.9	5.7	5.7	5.4	4.8	4.6	5.6	5.9	5.6	5.6	5.9	6.1	4.6	4.5	4.5	4.8	4.9
310. *	4.3	4.3	4.3	5.9	5.9	5.8	5.2	5.0	4.8	5.8	6.0	5.4	5.6	6.1	6.1	4.5	4.5	4.5	4.8	4.8
320. *	4.3	4.3	4.3	6.0	6.0	5.9	5.5	4.8	4.5	5.8	6.1	5.2	5.7	5.7	6.2	4.8	4.5	4.4	5.1	4.8
330. *	4.3	4.3	4.4	6.2	6.2	6.0	5.4	4.9	4.5	6.0	5.4	5.1	6.0	5.8	6.1	5.0	4.7	4.5	5.1	4.7
340. *	4.4	4.4	4.4	6.0	6.0	6.1	5.0	4.5	4.4	6.2	5.3	5.0	6.2	5.5	5.9	5.0	4.6	4.6	5.1	4.9
350. *	5.1	4.9	4.8	5.5	5.5	5.7	4.6	4.4	4.3	5.6	5.0	4.9	5.5	5.2	5.0	4.9	4.8	5.1	5.2	4.9
360. *	5.6	5.6	5.4	4.7	4.7	4.8	4.4	4.3	4.3	5.4	4.9	4.9	5.3	4.9	4.7	5.6	5.4	5.8	5.9	5.3
MAX *	6.2	6.1	6.1	6.6	6.3	6.4	6.4	6.3	5.6	6.2	6.1	5.7	6.2	6.1	6.2	5.8	6.0	6.1	6.0	5.8
DEGR. *	140	100	140	180	220	200	180	200	220	340	320	280	340	310	320	40	40	20	10	20

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31
10.	5.1	5.3	4.8	4.5	4.9	4.3	4.3	4.3	4.3	4.6	4.8
20.	5.3	5.4	5.2	4.8	4.9	4.3	4.3	4.3	4.3	4.6	4.8
30.	5.6	5.5	5.0	4.9	5.1	4.4	4.3	4.3	4.3	4.6	4.9
40.	5.6	5.5	5.1	4.8	4.8	4.5	4.3	4.3	4.3	4.6	4.9
50.	5.5	5.4	5.1	4.8	4.9	4.4	4.3	4.3	4.3	4.7	5.0
60.	5.7	5.2	5.1	4.7	5.0	4.4	4.3	4.3	4.3	4.7	5.1
70.	5.4	4.9	4.8	4.7	5.1	4.5	4.3	4.3	4.3	4.7	5.0
80.	5.0	5.1	5.0	5.2	5.2	4.7	4.3	4.3	4.3	4.7	4.9
90.	4.9	5.6	5.4	5.8	5.1	4.9	4.3	4.3	4.3	4.6	4.5
100.	4.8	5.6	5.6	6.1	5.1	4.8	4.5	4.5	4.5	4.4	4.4
110.	4.6	5.6	5.5	6.1	5.0	4.8	4.7	4.8	4.5	4.3	4.4
120.	4.6	5.6	6.2	5.9	5.2	4.8	4.7	4.8	4.7	4.3	4.4
130.	4.6	5.9	6.1	5.4	5.3	4.8	4.7	4.8	4.7	4.3	4.3
140.	4.5	6.0	5.8	5.3	5.6	4.8	4.6	4.7	4.7	4.3	4.4
150.	4.5	6.0	5.7	4.9	5.4	4.7	4.6	4.7	4.6	4.3	4.3
160.	4.5	5.7	5.5	4.9	5.2	4.7	4.6	4.7	4.6	4.3	4.3
170.	4.4	5.5	5.5	4.9	5.0	4.7	4.6	4.7	4.6	4.3	4.3
180.	4.3	5.5	5.1	4.9	4.6	4.7	4.6	4.7	4.6	4.3	4.3
190.	4.3	5.4	5.0	4.9	4.6	4.7	4.8	4.7	4.6	4.3	4.3
200.	4.3	5.4	4.9	5.1	4.6	4.7	5.0	4.9	4.6	4.3	4.3
210.	4.3	5.3	4.8	4.9	4.7	4.7	5.0	4.9	4.6	4.3	4.3
220.	4.3	5.0	4.9	5.0	4.7	4.7	5.0	5.0	4.8	4.4	4.3
230.	4.3	5.2	5.0	5.1	4.7	4.7	4.8	5.1	4.9	4.5	4.3
240.	4.3	4.9	5.0	5.1	4.7	4.7	4.8	4.9	4.8	4.4	4.3
250.	4.4	5.0	4.9	5.2	4.7	4.6	4.9	5.1	4.8	4.4	4.3
260.	4.6	4.7	4.8	4.9	4.5	4.5	4.9	4.8	4.9	4.4	4.6
270.	4.8	4.4	4.5	4.6	4.3	4.3	4.8	4.5	4.6	4.6	4.7
280.	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.4	4.8	4.9
290.	4.8	4.3	4.3	4.3	4.3	4.3	4.7	4.4	4.4	4.8	4.9
300.	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.4	4.7	4.9
310.	4.8	4.3	4.3	4.3	4.3	4.3	4.7	4.4	4.4	4.8	4.8
320.	4.9	4.3	4.3	4.3	4.3	4.3	4.5	4.4	4.4	4.7	4.8
330.	4.8	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.7	4.8
340.	4.9	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.6	4.8
350.	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.8

360. *	4.8	5.0	4.4	4.3	4.4	4.3	4.3	4.3	4.3	4.6	4.8
MAX *	5.7	6.0	6.2	6.1	5.6	4.9	5.0	5.1	4.9	4.8	5.1
DEGR. *	60	140	120	100	140	90	200	230	230	280	60

THE HIGHEST CONCENTRATION IS 6.6 PPM AT 180 DEGREES FROM REC4 .

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	140	100	140	180	220	200	180	200	220	340	320	280	340	310	320	40	40	20	10	20
1 *	.3	.3	.4	.0	.3	.4	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.2	.2
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.1	.3	.3	.6	.7	.9	.0	.0	.0	.4	.3	.1	.4	.1	.1	.0	.0	.0	.2	.2
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0
7 *	.0	.1	.1	.2	.0	.0	.2	.3	.3	.2	.2	.2	.2	.0	.0	.1	.1	.1	.0	.0
8 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.1	.1	.1	.2	.0	.0	.2	.3	.3	.4	.4	.6	.3	.1	.0	.2	.1	.1	.0	.0
10 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.4	.0	.1	.5	.0	.0	.5	.3	.2	.0	.0	.1	.1	.6	.6	.4	.4	.6	.0	.0
12 *	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14 *	.1	.0	.0	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.1	.2	.3	.4	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.1	.2
20 *	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1

26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27 *	.0	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28 *	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
31 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
32 *	.0	.0	.0	.0	.0	.0	.1	.2	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
33 *	.0	.0	.0	.0	.0	.0	.1	.2	.1	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0
34 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
35 *	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.2	.1	.1	.1	.0	.0
36 *	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.2	.1	.1	.1	.0	.0
37 *	.1	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0
38 *	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.2	.1	.2	.1	.0	.0
39 *	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.1	.1	.2	.1	.0	.0
40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
42 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
43 *	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
44 *	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
45 *	.0	.2	.2	.0	.2	.2	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.1

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
	140	100	140	180	220	200	180	200	220	340	320	280	340	310	320	40	40	20	10	20
46 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
47 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49 *	.0	.2	.2	.0	.2	.2	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.1	.1
50 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
51 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
DATE: 09/06/2006 TIME: 16:06
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING

THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK #	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31
	60	140	120	100	140	90	200	230	230	280	60
1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.1	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.1	.0	.0	.0	.0	.0	.1	.3	.0	.1	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
9	.1	.0	.0	.1	.0	.1	.2	.2	.1	.2	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
11	.1	.3	.3	.2	.2	.1	.2	.2	.1	.0	.0
12	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.2	.1	.1	.1	.0	.1	.1	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.3	.2	.2	.3	.2	.1	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
19	.1	.3	.3	.5	.2	.2	.0	.0	.0	.1	.2
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
35	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
36	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
37	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
38	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0
39	.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0

40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
42 *	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0
43 *	.1	.1	.1	.2	.1	.0	.0	.0	.0	.0	.0
44 *	.1	.1	.2	.2	.1	.0	.0	.0	.0	.0	.0
45 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.I5
RUN: INT #7 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr0708ex.O71

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21 60	REC22 140	REC23 120	REC24 100	REC25 140	REC26 90	REC27 200	REC28 230	REC29 230	REC30 280	REC31 60
46 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
47 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
51 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2008 EX FFQ FR0708EX.15
INT #7 2008 EXISTING FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 ROBERTS SB APP 3	6.2	4.3
2	R2 ROBERTS SB APP 25	6.1	4.3
3	R3 ROBERTS SB APP 50	6.1	4.3
4	R4 ROBERTS NB DEP 3	6.6	4.6
5	R5 ROBERTS NB DEP 25	6.3	4.4
6	R6 ROBERTS NB DEP 50	6.4	4.5
7	R7 SILVER WB APP 3	6.4	4.5
8	R8 SILVER WB APP 25	6.3	4.4
9	R9 SILVER WB APP 50	5.6	3.9
10	R10 SILVER EB DEP 3	6.2	4.3
11	R11 SILVER EB DEP 25	6.1	4.3
12	R12 SILVER EB DEP 50	5.7	4.0
13	R13 ROBERTS NB APP 3	6.2	4.3
14	R14 ROBERTS NB APP 2	6.1	4.3
15	R15 ROBERTS NB APP 5	6.2	4.3
16	R16 ROBERTS SB DEP 3	5.8	4.1
17	R17 ROBERTS SB DEP 2	6.0	4.2
18	R18 ROBERTS SB DEP 5	6.1	4.3
19	R19 SILVER EB APP 3	6.0	4.2
20	R20 SILVER EB APP 2	5.8	4.1
21	R21 SILVER EB APP 5	5.7	4.0
22	R22 SILVER WB DEP 3	6.0	4.2
23	R23 SILVER WB DEP 2	6.2	4.3
24	R24 SILVER WB DEP 5	6.1	4.3
25	R25 HOUSE 1	5.6	3.9
26	R26 HOUSE 2	4.9	3.4
27	R27 HOUSE 3	5.0	3.5
28	R28 HOUSE 4	5.1	3.6
29	R29 HOUSE 5	4.9	3.4
30	R30 HOUSE 6	4.8	3.3
31	R31 HOUSE 7	5.1	3.6

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.15
RUN: INT #7 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:54
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB SILVERS WB APP	*	2325.	1774.	2712.	1833.	*	392.	81.	AG	1141.	30.0	8.0	.0	56.0		
2. F1BC SILVERS WB APP	*	2712.	1833.	3411.	1713.	*	709.	100.	AG	1141.	30.0	8.0	.0	44.0		
3. F2AB SILVERS EB DEP	*	2410.	1752.	2714.	1799.	*	308.	81.	AG	1768.	30.0	8.0	.0	44.0		
4. F2BC SILVERS EB DEP	*	2714.	1798.	3416.	1676.	*	712.	100.	AG	1768.	30.0	8.0	.0	44.0		
5. F3AB ROBERTS NB APP	*	2426.	1789.	2598.	1638.	*	229.	131.	AG	1522.	30.0	8.0	.0	68.0		
6. F3BC ROBERTS NB APP	*	2598.	1637.	2664.	1582.	*	86.	130.	AG	1522.	30.0	8.0	.0	44.0		
7. F3CD ROBERTS NB APP	*	2665.	1581.	2734.	1514.	*	96.	134.	AG	1522.	30.0	8.0	.0	44.0		
8. F3DE ROBERTS NB APP	*	2734.	1512.	2876.	1200.	*	342.	155.	AG	1522.	30.0	8.0	.0	44.0		
9. F4AB ROBERTS SB DEP	*	2323.	1774.	2382.	1569.	*	214.	164.	AG	456.	30.0	8.0	.0	44.0		
10. F4BC ROBERTS SB DEP	*	2382.	1569.	2453.	1367.	*	214.	161.	AG	456.	30.0	8.0	.0	44.0		
11. F4DE ROBERTS SB DEP	*	2454.	1369.	2664.	1119.	*	326.	140.	AG	456.	30.0	8.0	.0	44.0		
12. F5AB SILVERS EB APP	*	2407.	1752.	1841.	1661.	*	573.	261.	AG	890.	30.0	8.0	.0	56.0		
13. F5BC SILVERS EB APP	*	1841.	1660.	1399.	1583.	*	450.	260.	AG	890.	30.0	8.0	.0	44.0		
14. F6AB SILVERS WB DEP	*	2323.	1774.	1395.	1604.	*	943.	260.	AG	1329.	30.0	8.0	.0	44.0		
15. Q2AB SILVERS WB L	*	2514.	1789.	2536.	1792.	*	22.	83.	AG	39.	.0	100.0	.0	12.0	.14	1.1
16. Q5AB ROBERTS NB L	*	2467.	1733.	2509.	1701.	*	53.	127.	AG	77.	.0	100.0	.0	12.0	.36	2.7
17. Q6AB ROBERTS NB L	*	2461.	1728.	2505.	1699.	*	53.	123.	AG	77.	.0	100.0	.0	12.0	.36	2.7
18. Q7AB SILVER EB L	*	2214.	1702.	2212.	1701.	*	2.	262.	AG	1.	.0	100.0	.0	12.0	.22	.1
19. Q8AB SILVERS EB T	*	2212.	1710.	2166.	1703.	*	47.	262.	AG	39.	.0	100.0	.0	12.0	.29	2.4
20. Q9AB SILVERS EB T	*	2208.	1721.	2162.	1714.	*	47.	261.	AG	39.	.0	100.0	.0	12.0	.29	2.4
21. FQ1AB SILVERS WB TL	*	2509.	1811.	2712.	1833.	*	204.	84.	AG	39.	99.0	100.0	.0	12.0		
22. FQ1BC SILVERS WB TL	*	2712.	1833.	3411.	1713.	*	709.	100.	AG	39.	99.0	100.0	.0	12.0		
23. FQ3AB ROBERTS NB R	*	2476.	1738.	2598.	1638.	*	158.	129.	AG	77.	99.0	100.0	.0	12.0		
24. FQ3BC ROBERTS NB R	*	2598.	1637.	2664.	1582.	*	86.	130.	AG	77.	99.0	100.0	.0	12.0		
25. FQ3CD ROBERTS NB R	*	2665.	1581.	2734.	1514.	*	96.	134.	AG	77.	99.0	100.0	.0	12.0		
26. FQ3DE ROBERTS NB R	*	2734.	1512.	2876.	1200.	*	343.	156.	AG	77.	99.0	100.0	.0	12.0		
27. FQ4AB ROBERTS NB R	*	2471.	1736.	2598.	1638.	*	160.	128.	AG	77.	99.0	100.0	.0	12.0		
28. FQ4BC ROBERTS NB R	*	2598.	1637.	2664.	1582.	*	86.	130.	AG	77.	99.0	100.0	.0	12.0		
29. FQ4CD ROBERTS NB R	*	2665.	1581.	2734.	1514.	*	96.	134.	AG	77.	99.0	100.0	.0	12.0		

30. FQ4DE ROBERTS NB R * 2734. 1512. 2876. 1200. * 343. 156. AG 77. 99.0 100.0 .0 12.0

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.I5
RUN: INT #7 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:54
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	LENGTH (SEC)	CYCLE TIME (SEC)	RED LOST TIME (SEC)	CLEARANCE VOL (VPH)	APPROACH FLOW RATE (VPH)	SATURATION RATE (gm/hr)	EM FAC	IDLE	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
15. Q2AB SILVERS WB L	90	30	3.0	135	1600	43.08	1	3		1	
16. Q5AB ROBERTS NB L	90	60	3.0	162	1600	43.08	1	3		1	
17. Q6AB ROBERTS NB L	90	60	3.0	161	1600	43.08	1	3		1	
18. Q7AB SILVER EB L	90	1	3.0	321	1600	43.08	1	3		1	
19. Q8AB SILVERS EB T	90	30	3.0	284	1600	43.08	1	3		1	
20. Q9AB SILVERS EB T	90	30	3.0	285	1600	43.08	1	3		1	

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 SILVER WB APP 3	2513.6	1846.1	6.0
2. R2 SILVER WB APP 25	2583.8	1853.8	6.0
3. R3 SILVER WB APP 50	2661.6	1856.2	6.0
4. R4 SILVER EB DEP 3	2550.5	1744.6	6.0
5. R5 SILVER EB DEP 25	2595.6	1752.0	6.0
6. R6 SILVER EB DEP 50	2670.9	1756.4	6.0
7. R7 ROBERTS NB APP 3	2538.2	1733.0	6.0
8. R8 ROBERTS NB APP 25	2601.8	1673.8	6.0
9. R9 ROBERTS NB APP 50	2663.4	1623.3	6.0
10. R10 ROBERTS SB DEP 3	2312.3	1642.6	6.0
11. R11 ROBERTS SB DEP 2	2337.7	1567.3	6.0
12. R12 ROBERTS SB DEP 5	2358.7	1486.8	6.0
13. R13 SILVER EB APP 3	2209.4	1662.9	6.0
14. R14 SILVER EB APP 2	2134.1	1655.7	6.0
15. R15 SILVER EB APP 5	2054.4	1646.2	6.0
16. R16 SILVER WB DEP 3	2042.1	1754.2	6.0
17. R17 SILVER WB DEP 2	2118.9	1769.4	6.0
18. R18 SILVER WB DEP 5	2197.1	1785.3	6.0
19. R19 HOUSE 1	1935.3	1757.9	6.0
20. R20 HOUSE 2	2545.6	1901.2	6.0

21. R21 HOUSE 3	*	2647.4	1891.9	6.0	*
22. R22 HOUSE 4	*	2783.3	1732.9	6.0	*
23. R23 HOUSE 5	*	1857.5	1620.0	6.0	*
24. R24 HOUSE 6	*	2841.8	1877.3	6.0	*

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.I5
RUN: INT #7 2020 BUILD FFQ
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.6	4.5	4.6	4.6	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
20. *	4.3	4.3	4.3	4.9	4.9	4.8	4.9	4.6	4.6	4.6	4.7	4.7	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
30. *	4.3	4.3	4.3	5.0	5.0	4.9	4.9	4.6	4.5	4.6	4.7	4.7	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
40. *	4.3	4.3	4.3	5.0	5.0	4.9	4.9	4.6	4.5	4.8	4.7	4.7	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
50. *	4.3	4.3	4.3	5.0	5.0	4.8	4.9	4.6	4.5	4.8	4.7	4.6	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
60. *	4.3	4.3	4.3	5.2	5.1	5.0	5.0	4.6	4.6	4.8	4.7	4.5	4.8	4.8	4.8	4.3	4.3	4.3	4.3	4.3
70. *	4.3	4.3	4.3	5.1	5.0	5.1	4.9	4.6	4.6	4.9	4.7	4.5	4.7	4.7	4.8	4.4	4.5	4.4	4.3	4.3
80. *	4.5	4.5	4.5	4.9	5.0	5.0	4.8	4.6	4.5	4.8	4.5	4.5	4.8	4.8	4.8	4.8	4.7	4.6	4.5	4.3
90. *	4.8	4.8	4.8	4.7	4.8	4.9	4.7	4.5	4.4	4.6	4.4	4.4	4.5	4.5	4.4	5.2	5.2	5.2	4.9	4.4
100. *	5.1	5.3	5.2	4.4	4.6	4.7	4.5	4.3	4.3	4.4	4.4	4.5	4.3	4.3	4.3	5.0	5.2	5.1	4.7	4.5
110. *	5.2	5.2	5.3	4.3	4.4	4.4	4.4	4.3	4.3	4.4	4.5	4.5	4.3	4.3	4.3	4.9	4.9	5.0	4.7	4.8
120. *	5.1	5.2	5.3	4.3	4.3	4.3	4.4	4.4	4.3	4.5	4.5	4.4	4.3	4.3	4.3	4.9	4.9	4.8	4.7	4.8
130. *	5.0	5.0	5.2	4.3	4.3	4.3	4.8	4.7	4.5	4.4	4.4	4.4	4.3	4.3	4.3	4.8	4.8	4.8	4.6	4.6
140. *	4.9	4.9	5.1	4.7	4.4	4.3	5.4	5.4	5.1	4.5	4.4	4.5	4.3	4.3	4.3	4.8	4.8	4.7	4.6	4.6
150. *	5.1	4.9	5.0	5.0	4.6	4.4	5.1	5.5	5.3	4.4	4.4	4.3	4.3	4.3	4.3	4.8	4.7	4.7	4.6	4.7
160. *	4.9	4.9	5.0	4.9	4.6	4.7	5.0	5.2	5.3	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7	4.7	4.6	4.7
170. *	5.2	5.0	5.1	4.8	4.7	4.5	4.9	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.7	4.7	4.6	4.7
180. *	5.1	4.9	5.0	4.8	4.5	4.5	4.9	5.I	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7	4.7	4.6	4.7
190. *	5.1	4.9	5.1	4.8	4.7	4.4	4.9	5.1	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.7	4.7	4.6	4.7
200. *	4.9	5.0	5.1	4.8	4.7	4.4	4.8	4.9	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.8	4.7	4.6	4.7
210. *	5.0	5.0	5.I	4.8	4.7	4.5	4.8	4.8	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.8	4.8	4.6	4.7
220. *	5.0	5.1	5.I	4.8	4.7	4.4	5.0	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.7	4.7

230. *	4.9	5.0	5.2	5.0	4.7	4.6	5.1	4.9	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.8	4.7
240. *	5.0	5.1	5.2	5.0	4.7	4.7	5.0	4.9	4.8	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	5.0	4.7	4.6
250. *	4.8	5.0	5.3	5.2	4.8	4.8	5.1	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	4.8	4.6	4.5
260. *	4.7	4.7	4.9	5.4	5.0	4.8	5.4	5.2	5.0	4.4	4.3	4.3	4.5	4.6	4.6	4.7	4.8	4.7	4.5	4.4
270. *	4.4	4.5	4.6	5.4	5.3	5.1	5.8	5.4	5.0	4.5	4.4	4.3	4.7	4.7	4.7	4.4	4.4	4.4	4.3	4.3
280. *	4.3	4.3	4.4	5.5	5.5	5.2	5.5	5.4	5.4	4.6	4.4	4.4	4.7	4.7	4.8	4.3	4.3	4.3	4.3	4.3
290. *	4.3	4.3	4.3	5.3	5.2	5.0	5.4	5.4	5.5	4.6	4.5	4.4	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
300. *	4.3	4.3	4.3	5.2	5.0	5.0	5.3	5.3	5.1	4.5	4.5	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
310. *	4.3	4.3	4.3	5.1	5.0	4.9	5.2	5.1	5.1	4.5	4.5	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
320. *	4.3	4.3	4.3	4.9	4.9	4.9	5.1	4.9	4.6	4.5	4.5	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
330. *	4.3	4.3	4.3	4.9	4.9	4.9	5.0	4.7	4.5	4.5	4.5	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
340. *	4.3	4.3	4.3	4.9	4.9	4.9	5.0	4.7	4.5	4.5	4.5	4.5	4.8	4.7	4.7	4.3	4.3	4.3	4.3	4.3
350. *	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.7	4.5	4.5	4.6	4.5	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
360. *	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.7	4.5	4.5	4.6	4.4	4.7	4.7	4.7	4.3	4.3	4.3	4.3	4.3
MAX *	5.2	5.3	5.3	5.5	5.5	5.2	5.8	5.5	5.5	4.9	4.7	4.7	4.8	4.8	4.8	5.2	5.2	5.2	4.9	4.8
DEGR. *	110	100	110	280	280	280	270	150	290	70	20	20	60	60	60	90	90	90	90	110

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PAGE 4

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.15
RUN: INT #7 2020 BUILD FFQ
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM) REC21	REC22	REC23	REC24
10. *	4.3	4.7	4.7	4.3
20. *	4.3	4.7	4.7	4.3
30. *	4.3	4.7	4.7	4.3
40. *	4.3	4.7	4.7	4.3
50. *	4.3	4.8	4.7	4.3
60. *	4.3	4.9	4.8	4.3
70. *	4.3	4.9	4.7	4.3
80. *	4.3	5.0	4.6	4.3

90.	*	4.4	4.8	4.4	4.3
100.	*	4.6	4.6	4.3	4.5
110.	*	4.8	4.4	4.3	4.8
120.	*	5.0	4.3	4.3	4.8
130.	*	4.7	4.3	4.3	4.8
140.	*	4.8	4.3	4.3	4.8
150.	*	4.7	4.3	4.3	4.8
160.	*	4.8	4.3	4.3	4.7
170.	*	4.8	4.4	4.3	4.7
180.	*	4.7	4.6	4.3	4.8
190.	*	4.8	4.4	4.3	4.8
200.	*	4.8	4.4	4.3	4.7
210.	*	4.8	4.4	4.3	4.7
220.	*	4.8	4.4	4.3	4.7
230.	*	4.8	4.4	4.3	4.9
240.	*	4.9	4.4	4.3	5.0
250.	*	4.7	4.4	4.3	5.1
260.	*	4.5	4.6	4.5	4.8
270.	*	4.3	4.9	4.7	4.4
280.	*	4.3	4.8	4.7	4.3
290.	*	4.3	4.7	4.7	4.3
300.	*	4.3	4.7	4.7	4.3
310.	*	4.3	4.8	4.7	4.3
320.	*	4.3	4.9	4.7	4.3
330.	*	4.3	4.7	4.7	4.3
340.	*	4.3	4.7	4.7	4.3
350.	*	4.3	4.7	4.6	4.3
360.	*	4.3	4.7	4.7	4.3
------	*	----------			
MAX	*	5.0	5.0	4.8	5.1
DEGR.	*	120	80	60	250

THE HIGHEST CONCENTRATION IS 5.8 PPM AT 270 DEGREES FROM REC7 .

1

PAGE 5

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.I5
RUN: INT #7 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:54
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)
* REC1 REC2 REC3 REC4 REC5 REC6 REC7 REC8 REC9 REC10 REC11 REC12 REC13 REC14 REC15 REC16 REC17 REC18 REC19 REC20

LINK # *	110	100	110	280	280	280	270	150	290	70	20	20	60	60	60	90	90	90	90	110
1 *	.3	.2	.2	.2	.2	.2	.1	.0	.0	.1	.1	.1	.1	.1	.1	.1	.2	.1	.1	
2 *	.1	.2	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
3 *	.2	.1	.0	.5	.6	.5	.2	.0	.1	.1	.1	.1	.1	.1	.0	.1	.1	.1	.1	.0
4 *	.2	.3	.4	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.2
5 *	.0	.0	.0	.3	.2	.1	.4	.1	.3	.1	.1	.1	.1	.0	.0	.1	.1	.1	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.1	.1	.0	.2	.0	.1	.0	.0	.0	.2	.2	.2	.1	.1	.1	.1	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14 *	.0	.0	.0	.1	.1	.1	.2	.0	.1	.0	.0	.0	.0	.1	.2	.4	.3	.2	.2	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24 *	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27 *	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28 *	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.15
RUN: INT #7 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:54
POLLUTANT: 1 CO FILENAME: RF0720BD.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

*	REC21	REC22	REC23	REC24
LINK # *	120	80	60	250

1	*	.1	.0	.0	.2
2	*	.2	.2	.0	.1
3	*	.0	.0	.0	.2
4	*	.3	.4	.0	.1
5	*	.0	.0	.0	.1
6	*	.0	.0	.0	.0
7	*	.0	.0	.0	.0
8	*	.0	.0	.0	.0
9	*	.0	.0	.0	.0
10	*	.0	.0	.0	.0
11	*	.0	.0	.0	.0
12	*	.0	.0	.3	.0
13	*	.0	.0	.0	.0
14	*	.0	.0	.2	.1
15	*	.0	.0	.0	.0
16	*	.0	.0	.0	.0
17	*	.0	.0	.0	.0
18	*	.0	.0	.0	.0
19	*	.0	.0	.0	.0
20	*	.0	.0	.0	.0
21	*	.0	.0	.0	.0
22	*	.1	.1	.0	.0
23	*	.0	.0	.0	.0
24	*	.0	.0	.0	.0
25	*	.0	.0	.0	.0
26	*	.0	.0	.0	.0
27	*	.0	.0	.0	.0
28	*	.0	.0	.0	.0
29	*	.0	.0	.0	.0
30	*	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 BD FFQ RF0720BD.I5
INT #7 2020 BUILD FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
I	R1 SILVER WB APP 3	5.2	3.6
2	R2 SILVER WB APP 25	5.3	3.7
3	R3 SILVER WB APP 50	5.3	3.7
4	R4 SILVER EB DEP 3	5.5	3.8
5	R5 SILVER EB DEP 25	5.5	3.8
6	R6 SILVER EB DEP 50	5.2	3.6
7	R7 ROBERTS NB APP 3	5.8	4.1
8	R8 ROBERTS NB APP 25	5.5	3.8
9	R9 ROBERTS NB APP 50	5.5	3.8
10	R10 ROBERTS SB DEP 3	4.9	3.4
I1	R11 ROBERTS SB DEP 2	4.7	3.3
12	R12 ROBERTS SB DEP 5	4.7	3.3
13	R13 SILVER EB APP 3	4.8	3.3
14	R14 SILVER EB APP 2	4.8	3.3
15	R15 SILVER EB APP 5	4.8	3.3
16	R16 SILVER WB DEP 3	5.2	3.6
17	R17 SILVER WB DEP 2	5.2	3.6
18	R18 SILVER WB DEP 5	5.2	3.6
19	R19 HOUSE 1	4.9	3.4
20	R20 HOUSE 2	4.8	3.3
21	R2I HOUSE 3	5.0	3.5
22	R22 HOUSE 4	5.0	3.5
23	R23 HOUSE 5	4.8	3.3
24	R24 HOUSE 6	5.1	3.6

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.1
RUN: INT #7 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 15:48
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB ROBERTS SB APP	*	2692.	2408.	2649.	2692.	*	286.	351.	AG	1538.	40.0	8.3	.0	68.0		
2. F1BC ROBERTS SB APP	*	2649.	2692.	2612.	2932.	*	243.	351.	AG	1538.	40.0	8.3	.0	44.0		
3. F1CD ROBERTS SB APP	*	2610.	2927.	2625.	3152.	*	225.	4.	AG	1538.	40.0	8.3	.0	44.0		
4. F1DE ROBERTS SB APP	*	2623.	3148.	2668.	3381.	*	237.	11.	AG	1538.	40.0	8.3	.0	44.0		
5. F2AB ROBERTS NB DEP	*	2740.	2411.	2632.	2960.	*	559.	349.	AG	2694.	40.0	8.3	.0	44.0		
6. F2BC ROBERTS NB DEP	*	2632.	2956.	2710.	3401.	*	452.	10.	AG	2694.	40.0	8.3	.0	44.0		
7. F3AB SILVERS WB APP	*	2710.	2428.	3082.	2498.	*	378.	79.	AG	1141.	30.0	8.0	.0	80.0		
8. F3BC SILVERS WB APP	*	3081.	2499.	3717.	2400.	*	644.	99.	AG	1141.	30.0	8.0	.0	44.0		
9. F4AB SILVERS EB DEP	*	2718.	2396.	3161.	2467.	*	449.	81.	AG	1768.	30.0	8.0	.0	44.0		
10. F4BC SILVERS EB DEP	*	3164.	2465.	3719.	2380.	*	561.	99.	AG	1768.	30.0	8.0	.0	44.0		
11. F5AB ROBERTS NB APP	*	2740.	2413.	2814.	2013.	*	407.	170.	AG	3883.	30.0	8.0	.0	92.0		
12. F5BC ROBERTS NB APP	*	2813.	2012.	2696.	1733.	*	302.	203.	AG	3883.	30.0	8.0	.0	44.0		
13. F5CD ROBERTS NB APP	*	2695.	1733.	2502.	1541.	*	272.	225.	AG	3883.	30.0	8.0	.0	44.0		
14. F6AB ROBERTS SB DEP	*	2693.	2407.	2767.	1995.	*	419.	170.	AG	1935.	30.0	8.0	.0	44.0		
15. F6BC ROBERTS SB DEP	*	2766.	1994.	2671.	1765.	*	248.	202.	AG	2412.	30.0	8.0	.0	44.0		
16. F6CD ROBERTS SB DEP	*	2670.	1765.	2490.	1564.	*	270.	222.	AG	2412.	30.0	8.0	.0	44.0		
17. F7AB SILVERS EB APP	*	2714.	2395.	2435.	2348.	*	283.	261.	AG	890.	30.0	8.0	.0	68.0		
18. F7BC SILVERS EB APP	*	2427.	2344.	1720.	2239.	*	715.	262.	AG	1367.	30.0	8.0	.0	44.0		
19. F8AB SILVERS WB DEP	*	2709.	2428.	1700.	2260.	*	1022.	261.	AG	1378.	30.0	8.0	.0	32.0		
20. F9AB ROBERTS SB RT	*	2649.	2419.	2604.	2713.	*	297.	351.	AG	323.	40.0	8.3	.0	32.0		
21. F9BC ROBERTS SB RT	*	2604.	2709.	2484.	2831.	*	171.	315.	AG	323.	40.0	8.3	.0	32.0		
22. F9CD ROBERTS SB RT	*	2481.	2829.	2292.	2921.	*	210.	296.	AG	323.	40.0	8.3	.0	32.0		
23. F10AB SILVER EB RAMP	*	2763.	2001.	2694.	2238.	*	247.	344.	AG	477.	30.0	8.0	.0	32.0		
24. F10BC SILVER EB RAMP	*	2693.	2236.	2626.	2325.	*	111.	323.	AG	477.	30.0	8.0	.0	32.0		
25. F10CD SILVER EB RAMP	*	2626.	2323.	2436.	2345.	*	192.	277.	AG	477.	30.0	8.0	.0	32.0		
26. Q1AB ROBERTS SB R	*	2647.	2483.	2625.	2638.	*	157.	352.	AG	83.	.0	100.0	.0	12.0	.88	8.0
27. Q4AB ROBERTS SB L	*	2686.	2495.	2676.	2549.	*	54.	349.	AG	83.	.0	100.0	.0	12.0	.38	2.8
28. Q5AB ROBERTS SB L	*	2695.	2495.	2686.	2549.	*	54.	350.	AG	83.	.0	100.0	.0	12.0	.38	2.8
29. Q6AB SILVER WB R	*	2793.	2462.	2847.	2472.	*	55.	80.	AG	87.	.0	100.0	.0	12.0	.42	2.8

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 30. Q7AB  SILVER  WB T  *  2795.   2452.   2862.   2464. *    68.   80. AG    87.   .0 100.0    .0 12.0  .52   3.5
 31. Q8AB  SILVER  WB T  *  2793.   2443.   2860.   2456. *    68.   80. AG    87.   .0 100.0    .0 12.0  .52   3.5
 32. Q15AB  ROBERTS NB L *  2747.   2352.   2772.   2191. *   163.  171. AG    80.   .0 100.0    .0 12.0  .87   8.3
 33. Q16AB  ROBERTS NB L *  2735.   2352.   2768.   2192. *   163.  168. AG    80.   .0 100.0    .0 12.0  .87   8.3
 34. Q18AB  SILVER EB T  *  2633.   2374.   2485.   2351. *   150.  261. AG    87.   .0 100.0    .0 12.0  .89   7.6
 35. Q19AB  SILVER EB T  *  2633.   2383.   2487.   2359. *   148.  260. AG    87.   .0 100.0    .0 12.0  .89   7.5
 36. Q20AB  SILVER EB L  *  2626.   2395.   2519.   2375. *   109.  259. AG    97.   .0 100.0    .0 12.0  .91   5.5
 37. Q21AB  SILVER EB L  *  2630.   2403.   2526.   2383. *   107.  259. AG    97.   .0 100.0    .0 12.0  .91   5.4
 38. FQ2AB  ROBERTS SB T *  2662.   2491.   2649.   2692. *   201.  356. AG    83.  99.0 100.0    .0 12.0
 39. FQ2BC  ROBERTS SB T *  2649.   2692.   2612.   2932. *   243.  351. AG    83.  99.0 100.0    .0 12.0
 40. FQ2CD  ROBERTS SB T *  2610.   2927.   2625.   3152. *   225.    4. AG    83.  99.0 100.0    .0 12.0
 41. FQ2DE  ROBERTS SB T *  2623.   3148.   2668.   3381. *   237.   11. AG    83.  99.0 100.0    .0 12.0
 42. FQ3AB  ROBERTS SB T *  2677.   2488.   2649.   2692. *   206.  352. AG    83.  99.0 100.0    .0 12.0
 43. FQ3BC  ROBERTS SB T *  2649.   2692.   2612.   2932. *   243.  351. AG    83.  99.0 100.0    .0 12.0
 44. FQ3CD  ROBERTS SB T *  2610.   2927.   2625.   3152. *   225.    4. AG    83.  99.0 100.0    .0 12.0
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                                                                PAGE  2
 JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB  FFQ RF0720NB.I
      RUN: INT #7 2020 NO BUILD FFQ
 DATE: 09/06/2006   TIME: 15:48
 POLLUTANT:  1       CO        FILENAME:  fr0720nb.O71
  LINK VARIABLES
  --------------
   LINK DESCRIPTION    *     LINK COORDINATES (FT)      *  LENGTH  BRG TYPE   VOL  SPEED   EF     H   W    V/C QUEUE
                     *  X1      Y1      X2      Y2   *    (FT)  (DEG)    (VPH) (MPH) (G/MI)  (FT) (FT)     (VEH)
 -------------------------*-----------------------------------*-----------------------------------------------------
 45. FQ3DE  ROBERTS SB T *  2623.   3148.   2668.   3381. *   237.   11. AG    83.  99.0 100.0    .0 12.0
 46. FQ9AB  SILVER  WB L *  2796.   2439.   3082.   2498. *   292.   78. AG    97.  99.0 100.0    .0 12.0
 47. FQ9BC  SILVER  WB L *  3081.   2499.   3717.   2400. *   644.   99. AG    97.  99.0 100.0    .0 12.0
 48. FQ10AB  SILVER  WB L*  2797.   2431.   3082.   2498. *   293.   77. AG    97.  99.0 100.0    .0 12.0
 49. FQ10BC  SILVER  WB L*  3081.   2499.   3717.   2400. *   644.   99. AG    97.  99.0 100.0    .0 12.0
 50. FQ11AB  ROBERTS NB R*  2777.   2358.   2814.   2013. *   347.  174. AG    80.  99.0 100.0    .0 12.0
 51. FQ11BC  ROBERTS NB R*  2813.   2012.   2696.   1733. *   303.  203. AG    80.  99.0 100.0    .0 12.0
 52. FQ11CD  ROBERTS NB R*  2695.   1733.   2502.   1541. *   272.  225. AG    80.  99.0 100.0    .0 12.0
 53. FQ12AB  ROBERTS NB T*  2766.   2358.   2814.   2013. *   348.  172. AG    80.  99.0 100.0    .0 12.0
 54. FQ12BC  ROBERTS NB T*  2813.   2012.   2696.   1733. *   303.  203. AG    80.  99.0 100.0    .0 12.0
 55. FQ12CD  ROBERTS NB T*  2695.   1733.   2502.   1541. *   272.  225. AG    80.  99.0 100.0    .0 12.0
 56. FQ13AB  ROBERTS NB T*  2759.   2353.   2814.   2013. *   344.  171. AG    80.  99.0 100.0    .0 12.0
 57. FQ13BC  ROBERTS NB T*  2813.   2012.   2696.   1733. *   303.  203. AG    80.  99.0 100.0    .0 12.0
 58. FQ13CD  ROBERTS NB T*  2695.   1733.   2502.   1541. *   272.  225. AG    80.  99.0 100.0    .0 12.0
 59. FQ14AB  ROBERTS NB T*  2754.   2352.   2814.   2013. *   344.  170. AG    80.  99.0 100.0    .0 12.0
 60. FQ14BC  ROBERTS NB T*  2813.   2012.   2696.   1733. *   303.  203. AG    80.  99.0 100.0    .0 12.0
 61. FQ14CD  ROBERTS NB T*  2695.   1733.   2502.   1541. *   272.  225. AG    80.  99.0 100.0    .0 12.0
 62. FQ17AB  SILVER EB R *  2469.   2335.   2435.   2348. *    36.  291. AG    87.  99.0 100.0    .0 12.0
 63. FQ17BC  SILVER EB R *  2427.   2344.   1720.   2239. *   715.  262. AG    87.  99.0 100.0    .0 12.0
1
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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
RUN: INT #7 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 15:48
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
26. Q1AB ROBERTS SB R	100	72	3.0	323	1600	43.08	1	3	1
27. Q4AB ROBERTS SB L	100	72	3.0	138	1600	43.08	1	3	1
28. Q5AB ROBERTS SB L	100	72	3.0	138	1600	43.08	1	3	1
29. Q6AB SILVER WB R	100	75	3.0	135	1600	43.08	1	3	1
30. Q7AB SILVER WB T	100	75	3.0	166	1600	43.08	1	3	1
31. Q8AB SILVER WB T	100	75	3.0	167	1600	43.08	1	3	1
32. Q15AB ROBERTS NB L	100	69	3.0	361	1600	43.08	1	3	1
33. Q16AB ROBERTS NB L	100	69	3.0	361	1600	43.08	1	3	1
34. Q18AB SILVER EB T	100	75	3.0	285	1600	43.08	1	3	1
35. Q19AB SILVER EB T	100	75	3.0	284	1600	43.08	1	3	1
36. Q20AB SILVER EB L	100	84	3.0	161	1600	43.08	1	3	1
37. Q21AB SILVER EB L	100	84	3.0	160	1600	43.08	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 ROBERTS SB APP 3	2620.8	2495.4	6.0
2. R2 ROBERTS SB APP 25	2609.6	2565.1	6.0
3. R3 ROBERTS SB APP 50	2594.6	2645.3	6.0
4. R4 ROBERTS NB DEP 3	2746.1	2514.4	6.0
5. R5 ROBERTS NB DEP 25	2731.8	2582.4	6.0
6. R6 ROBERTS NB DEP 50	2717.5	2659.8	6.0
7. R7 SILVER WB APP 3	2793.0	2489.3	6.0
8. R8 SILVER WB APP 25	2874.9	2497.6	6.0
9. R9 SILVER WB APP 50	2945.1	2511.6	6.0
10. R10 SILVER EB DEP 3	2816.9	2373.9	6.0
11. R11 SILVER EB DEP 25	2895.5	2389.0	6.0
12. R12 SILVER EB DEP 50	2971.3	2405.1	6.0
13. R13 ROBERTS NB APP 3	2817.6	2355.4	6.0
14. R14 ROBERTS NB APP 2	2832.1	2280.3	6.0
15. R15 ROBERTS NB APP 5	2840.2	2201.5	6.0
16. R16 ROBERTS SB DEP 3	2670.5	2236.1	6.0

17. R17 ROBERTS SB DEP 2 * 2685.9 2183.6 6.0 *
18. R18 ROBERTS SB DEP 5 * 2726.8 2032.2 6.0 *
19. R19 SILVER EB APP 3 * 2612.2 2296.1 6.0 *
20. R20 SILVER EB APP 2 * 2558.6 2302.4 6.0 *
21. R21 SILVER EB APP 5 * 2480.6 2300.3 6.0 *
22. R22 SILVER WB DEP 3 * 2592.9 2445.9 6.0 *
23. R23 SILVER WB DEP 2 * 2540.4 2433.3 6.0 *
24. R24 SILVER WB DEP 5 * 2464.2 2411.6 6.0 *
25. R25 HOUSE 1 * 2520.2 2481.7 6.0 *
26. R26 HOUSE 2 * 2215.1 2415.3 6.0 *
27. R27 HOUSE 3 * 2953.1 2586.9 6.0 *
28. R28 HOUSE 4 * 3075.8 2558.3 6.0 *
29. R29 HOUSE 5 * 3294.4 2550.1 6.0 *
30. R30 HOUSE 6 * 3227.2 2368.9 6.0 *
31. R31 HOUSE 7 * 2128.8 2253.9 6.0 *

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.1
RUN: INT #7 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	5.9	5.6	5.5	4.4	4.4	4.5	4.3	4.3	4.3	5.4	5.1	5.1	5.2	4.8	4.7	5.5	5.6	6.7	5.6	5.5
20. *	5.6	5.8	5.3	4.3	4.4	4.3	4.3	4.3	4.3	5.3	5.1	5.1	5.1	4.8	4.7	5.6	5.8	6.3	5.1	5.4
30. *	5.6	5.6	5.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.1	5.1	5.0	4.8	4.5	5.6	6.1	6.1	5.1	5.5
40. *	5.4	5.4	5.2	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.2	5.2	5.0	4.8	4.4	6.1	6.3	6.1	5.3	5.2
50. *	5.5	5.4	5.4	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.2	5.2	5.1	4.6	4.5	6.4	6.2	5.9	5.4	5.4
60. *	5.6	5.4	5.2	4.3	4.3	4.3	4.3	4.4	4.4	5.2	5.2	5.2	4.9	4.6	4.5	6.0	6.0	5.9	5.4	5.2
70. *	5.6	5.4	5.2	4.3	4.3	4.3	4.4	4.4	4.4	5.4	5.2	5.2	5.1	4.7	4.5	6.1	6.0	5.8	5.4	5.5
80. *	5.7	5.4	5.2	4.4	4.3	4.3	4.9	5.1	4.8	5.0	5.0	5.1	4.8	4.5	4.4	5.9	5.9	5.8	5.4	5.1
90. *	6.0	5.4	5.2	5.1	4.3	4.3	5.3	5.3	5.4	4.6	4.8	4.9	4.5	4.3	4.3	5.9	5.7	5.8	5.6	4.9
100. *	6.0	5.9	5.5	5.3	4.9	4.5	5.6	5.6	5.5	4.3	4.4	4.4	4.3	4.3	4.3	5.9	5.7	5.3	5.6	4.9
110. *	5.7	6.0	5.7	5.1	4.9	4.7	5.5	5.5	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.7	5.6	4.9

120. *	5.6	5.8	5.5	5.2	4.7	4.6	5.6	5.3	5.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.8	5.8	5.4	4.8
130. *	5.5	5.8	5.6	5.2	4.7	4.7	5.5	5.2	5.3	4.3	4.3	4.3	4.3	4.3	4.3	5.8	5.9	5.9	5.4	4.8
140. *	6.1	5.9	5.8	5.1	4.8	4.8	5.3	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3	5.9	5.8	5.9	5.0	4.7
150. *	6.1	5.9	5.8	5.0	4.7	4.7	5.3	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.5	5.7	5.0	4.8
160. *	5.6	5.6	5.6	5.5	5.1	5.0	5.4	5.0	5.0	4.4	4.3	4.3	4.4	4.4	4.4	5.1	5.5	5.7	4.8	4.5
170. *	5.3	5.3	5.2	6.4	6.2	5.9	6.1	5.0	5.1	4.8	4.3	4.3	4.8	4.7	4.7	4.8	5.0	5.7	4.6	4.6
180. *	5.2	4.9	4.7	7.1	6.5	6.2	6.5	5.2	4.9	5.7	4.5	4.3	5.8	5.6	5.1	4.7	4.8	5.7	4.7	4.5
190. *	5.0	4.7	4.5	6.4	6.3	6.0	6.5	5.9	5.2	6.3	4.8	4.5	6.3	6.1	6.5	4.5	4.7	5.3	4.5	4.3
200. *	5.0	4.5	4.4	6.0	6.0	5.9	5.8	6.5	5.9	6.5	5.6	4.9	6.5	6.2	6.7	4.4	4.5	4.9	4.3	4.3
210. *	5.0	4.5	4.4	5.8	5.9	5.9	5.6	6.3	5.8	6.0	5.5	5.0	6.0	6.0	6.1	4.3	4.3	4.6	4.3	4.3
220. *	4.9	4.5	4.5	5.7	6.0	5.8	5.6	5.9	5.7	5.8	5.2	4.8	5.9	5.9	5.7	4.3	4.3	4.3	4.3	4.3
230. *	4.7	4.6	4.5	5.7	6.1	5.8	5.5	5.8	5.6	5.8	5.4	4.7	5.8	5.8	5.6	4.3	4.3	4.3	4.3	4.3
240. *	4.7	4.6	4.5	5.6	5.8	5.8	5.3	5.8	5.8	5.8	5.3	4.7	5.8	5.8	5.6	4.3	4.3	4.3	4.3	4.3
250. *	4.7	4.5	4.3	5.8	5.8	5.7	5.7	5.7	5.6	5.6	4.9	4.8	5.8	5.8	5.6	4.3	4.3	4.3	4.3	4.3
260. *	4.5	4.3	4.3	6.0	5.6	5.5	5.3	5.2	5.1	5.7	5.3	5.3	6.1	5.8	5.6	4.3	4.3	4.3	4.6	4.6
270. *	4.3	4.3	4.3	5.8	5.6	5.5	5.0	4.8	4.8	5.8	5.6	5.6	5.9	6.1	5.9	4.6	4.4	4.3	4.7	4.7
280. *	4.3	4.3	4.3	5.8	5.6	5.4	5.0	4.7	4.7	5.9	5.5	5.7	5.6	6.1	6.0	4.6	4.6	4.3	5.0	5.0
290. *	4.3	4.3	4.3	5.8	5.6	5.5	5.3	4.7	4.6	5.8	5.6	5.5	5.7	6.0	6.0	4.6	4.6	4.5	4.8	4.9
300. *	4.3	4.3	4.3	5.8	5.6	5.5	5.2	4.7	4.6	5.7	5.6	5.5	5.7	6.0	6.1	4.5	4.5	4.5	4.8	4.8
310. *	4.3	4.3	4.3	5.8	5.7	5.7	5.2	4.8	4.6	5.8	5.8	5.5	5.7	6.1	6.2	4.7	4.5	4.4	4.8	5.0
320. *	4.3	4.3	4.3	5.8	6.0	5.8	5.2	4.7	4.6	6.0	5.8	5.4	5.6	5.9	6.3	4.8	4.5	4.4	5.0	4.9
330. *	4.3	4.3	4.3	5.9	5.9	5.9	5.0	4.7	4.5	5.7	5.6	5.3	5.7	5.5	6.1	5.0	4.5	4.4	5.0	4.8
340. *	4.4	4.3	4.4	5.9	6.1	5.9	4.9	4.5	4.4	5.7	5.3	5.2	5.6	5.5	5.7	4.7	4.6	4.7	5.0	5.0
350. *	4.9	4.7	4.6	5.3	5.4	5.4	4.6	4.4	4.4	5.7	5.2	5.1	5.4	5.0	5.1	5.0	5.0	5.2	5.1	5.1
360. *	5.5	5.4	5.2	4.7	4.8	4.8	4.4	4.3	4.3	5.5	5.1	5.1	5.5	4.9	4.7	5.6	5.7	5.9	5.5	5.2
MAX *	6.1	6.0	5.8	7.1	6.5	6.2	6.5	6.5	5.9	6.5	5.8	5.7	6.5	6.2	6.7	6.4	6.3	6.7	5.6	5.5
DEGR. *	140	110	140	180	180	180	180	200	200	200	310	280	200	200	200	50	40	10	10	10

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
RUN: INT #7 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND * CONCENTRATION

ANGLE (DEGR)	(PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31
10.	5.1	5.1	4.6	4.5	4.6	4.3	4.3	4.3	4.3	4.8	4.9
20.	5.3	5.3	4.8	4.6	4.7	4.3	4.3	4.3	4.3	4.8	4.9
30.	5.5	5.2	4.9	4.7	4.7	4.4	4.3	4.3	4.3	4.8	5.0
40.	5.5	5.2	5.0	4.6	4.7	4.5	4.3	4.3	4.3	4.8	5.0
50.	5.4	5.2	5.0	4.6	4.9	4.4	4.3	4.3	4.3	4.8	5.1
60.	5.6	4.8	4.7	4.6	4.9	4.4	4.3	4.3	4.3	4.9	5.1
70.	5.3	5.0	4.8	4.8	4.9	4.5	4.3	4.3	4.3	4.9	5.0
80.	5.1	5.3	5.1	5.2	4.7	4.7	4.3	4.3	4.3	4.8	4.8
90.	4.8	5.8	5.5	5.8	5.2	4.9	4.3	4.3	4.3	4.8	4.6
100.	4.7	5.5	5.5	5.8	5.1	4.9	4.7	4.7	4.4	4.4	4.5
110.	4.7	5.6	5.4	5.8	5.2	5.0	4.9	5.1	4.7	4.3	4.5
120.	4.6	5.5	5.6	5.7	5.1	4.9	4.9	5.2	4.9	4.3	4.4
130.	4.7	5.7	5.9	5.6	5.2	5.0	5.1	5.2	4.9	4.3	4.4
140.	4.7	6.0	5.7	5.5	5.5	4.9	4.8	4.9	4.9	4.3	4.4
150.	4.5	5.8	5.5	5.4	5.4	4.9	4.8	4.9	4.9	4.3	4.4
160.	4.6	5.7	5.5	5.3	5.4	4.9	4.7	4.9	4.8	4.3	4.3
170.	4.5	5.5	5.4	5.0	5.2	4.8	4.8	4.9	4.8	4.3	4.3
180.	4.4	5.2	5.2	5.1	4.9	4.8	4.8	4.9	4.8	4.3	4.3
190.	4.3	5.1	5.1	4.9	4.6	4.8	4.9	4.9	4.8	4.3	4.3
200.	4.3	5.2	5.2	4.9	4.6	4.8	5.5	5.1	4.8	4.3	4.3
210.	4.3	5.2	5.0	5.0	4.7	4.8	5.3	5.4	4.9	4.3	4.3
220.	4.3	5.2	4.7	5.0	4.7	4.8	5.0	5.2	5.0	4.5	4.3
230.	4.3	5.2	5.0	5.1	4.7	4.8	4.9	5.3	5.1	4.6	4.3
240.	4.3	5.0	5.1	5.2	4.8	4.8	4.9	5.2	5.2	4.6	4.3
250.	4.3	5.0	5.0	5.2	4.7	4.7	4.8	5.1	5.2	4.6	4.3
260.	4.7	4.8	4.8	5.0	4.5	4.5	4.7	4.7	5.4	4.6	4.6
270.	4.9	4.4	4.4	4.6	4.3	4.3	4.6	4.5	4.6	4.6	4.8
280.	5.0	4.3	4.3	4.3	4.3	4.3	4.6	4.5	4.4	5.0	5.0
290.	4.9	4.3	4.3	4.3	4.3	4.3	4.5	4.4	4.4	4.9	5.0
300.	4.8	4.3	4.3	4.3	4.3	4.3	4.6	4.5	4.4	4.9	5.0
310.	4.9	4.3	4.3	4.3	4.3	4.3	4.6	4.4	4.4	4.8	4.9
320.	4.9	4.3	4.3	4.3	4.3	4.3	4.5	4.4	4.4	4.9	4.9
330.	4.8	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.9	4.9
340.	4.9	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.8	4.9
350.	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.8	4.9
360.	4.8	4.7	4.5	4.3	4.4	4.3	4.3	4.3	4.3	4.8	4.9
MAX	5.6	6.0	5.9	5.8	5.5	5.0	5.5	5.4	5.4	5.0	5.1
DEGR.	60	140	130	90	140	110	200	210	260	280	50

THE HIGHEST CONCENTRATION IS 7.1 PPM AT 180 DEGREES FROM REC4 .
1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.1
RUN: INT #7 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 15:48
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	140	110	140	180	180	180	180	200	200	200	310	280	200	200	200	50	40	10	10	10
1 *	.2	.3	.3	.0	.1	.2	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.1
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.1	.3	.3	.7	.9	1.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.1	.3	.2
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
7 *	.0	.1	.1	.2	.1	.0	.2	.3	.3	.0	.2	.2	.0	.0	.0	.1	.1	.1	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.1	.1	.1	.2	.1	.1	.2	.2	.2	.0	.4	.6	.0	.0	.0	.2	.1	.1	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.5	.0	.2	.7	.5	.3	.7	.4	.3	.9	.0	.1	.9	.8	.8	.6	.6	.7	.0	.0
12 *	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.2	.3	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
14 *	.2	.0	.0	.2	.2	.2	.1	.1	.1	.2	.0	.0	.2	.2	.1	.3	.4	.6	.0	.0
15 *	.0	.0	.0	.1	.1	.0	.1	.1	.1	.1	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
17 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
20 *	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
26 *	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
31 *	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
32 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0
33 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0

34 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
35 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
36 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
37 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
38 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
39 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
42 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
43 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
RUN: INT #7 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	140	110	140	180	180	180	180	200	200	200	310	280	200	200	200	50	40	10	10	10
46 *	.0	.1	.0	.0	.0	.0	.1	.2	.2	.0	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0
47 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
48 *	.0	.1	.0	.0	.0	.0	.0	.1	.2	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.0
49 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
50 *	.1	.0	.0	.1	.0	.0	.1	.1	.0	.2	.0	.0	.2	.1	.1	.1	.1	.1	.0	.0
51 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
52 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53 *	.1	.0	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0
54 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
55 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56 *	.1	.0	.0	.1	.0	.0	.1	.1	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0
57 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
58 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59 *	.1	.0	.0	.1	.1	.0	.1	.1	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0
60 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
61 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

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JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
RUN: INT #7 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 15:48

POLLUTANT: 1 CO FILENAME: fr0720nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK #	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31
	60	140	130	90	140	110	200	210	260	280	50
1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.1	.0	.0	.1	.0	.0	.0	.0	.1	.1	.1
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.1	.0	.0	.1	.0	.0	.1	.2	.1	.1	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
9	.1	.0	.0	.2	.0	.0	.2	.2	.2	.2	.0
10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
11	.1	.5	.4	.1	.3	.2	.3	.2	.1	.1	.0
12	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0
14	.0	.3	.2	.1	.2	.1	.1	.1	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3
19	.1	.3	.3	.4	.2	.2	.0	.0	.1	.1	.2
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
35	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0
36	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0

37 *	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0
38 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
39 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
42 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
43 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
44 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
45 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
RUN: INT #7 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0720nb.O71

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21 60	REC22 140	REC23 130	REC24 90	REC25 140	REC26 110	REC27 200	REC28 210	REC29 260	REC30 280	REC31 50
46 *	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0
47 *	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
48 *	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0
49 *	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
50 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
51 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
52 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
53 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
54 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
55 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
56 *	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
57 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
58 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
59 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
60 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
62 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
63 *	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD ELE INT #7 SILVER LAND & ROBERTS STREET 2020 NB FFQ RF0720NB.I
INT #7 2020 NO BUILD FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 ROBERTS SB APP 3	6.1	4.3
2	R2 ROBERTS SB APP 25	6.0	4.2
3	R3 ROBERTS SB APP 50	5.8	4.1
4	R4 ROBERTS NB DEP 3	7.1	5.0
5	R5 ROBERTS NB DEP 25	6.5	4.5
6	R6 ROBERTS NB DEP 50	6.2	4.3
7	R7 SILVER WB APP 3	6.5	4.5
8	R8 SILVER WB APP 25	6.5	4.5
9	R9 SILVER WB APP 50	5.9	4.1
10	R10 SILVER EB DEP 3	6.5	4.5
11	R11 SILVER EB DEP 25	5.8	4.1
12	R12 SILVER EB DEP 50	5.7	4.0
13	R13 ROBERTS NB APP 3	6.5	4.5
14	R14 ROBERTS NB APP 2	6.2	4.3
15	R15 ROBERTS NB APP 5	6.7	4.7
16	R16 ROBERTS SB DEP 3	6.4	4.5
17	R17 ROBERTS SB DEP 2	6.3	4.4
18	R18 ROBERTS SB DEP 5	6.7	4.7
19	R19 SILVER EB APP 3	5.6	3.9
20	R20 SILVER EB APP 2	5.5	3.8
21	R21 SILVER EB APP 5	5.6	3.9
22	R22 SILVER WB DEP 3	6.0	4.2
23	R23 SILVER WB DEP 2	5.9	4.1
24	R24 SILVER WB DEP 5	5.8	4.1
25	R25 HOUSE 1	5.5	3.8
26	R26 HOUSE 2	5.0	3.5
27	R27 HOUSE 3	5.5	3.8
28	R28 HOUSE 4	5.4	3.8
29	R29 HOUSE 5	5.4	3.8
30	R30 HOUSE 6	5.0	3.5
31	R31 HOUSE 7	5.1	3.6

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.151 0
RUN: INT #8 2008 EXISTING
DATE: 09/07/2006 TIME: 09:32
POLLUTANT: 1 CO FILENAME: rf0808ex.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MERCER SB APP	*	792.	1951.	775.	2151.	*	201.	355.	AG	86.	30.0	11.4	.0	44.0		
2. F1BC MERCER SB APP	*	775.	2151.	840.	2307.	*	168.	23.	AG	86.	30.0	11.4	.0	32.0		
3. F1CD MERCER SB APP	*	840.	2306.	1065.	2473.	*	281.	54.	AG	86.	30.0	11.4	.0	32.0		
4. F1DE MERCER SB APP	*	1065.	2470.	1408.	2535.	*	349.	79.	AG	86.	30.0	11.4	.0	32.0		
5. F2AB MERCER NB DEP	*	816.	1958.	803.	2116.	*	158.	355.	AG	105.	30.0	11.4	.0	32.0		
6. F2BC MERCER NB DEP	*	803.	2116.	942.	2274.	*	210.	41.	AG	105.	30.0	11.4	.0	32.0		
7. F2CD MERCER NB DEP	*	943.	2275.	1577.	2404.	*	648.	79.	AG	105.	30.0	11.4	.0	32.0		
8. F3AB SILVERS WB APP	*	803.	1966.	1231.	2061.	*	438.	77.	AG	904.	40.0	11.8	.0	44.0		
9. F3BC SILVERS WB APP	*	1231.	2060.	1796.	2153.	*	572.	81.	AG	904.	40.0	11.8	.0	32.0		
10. F4AB SILVERS EB DEP	*	807.	1943.	1250.	2038.	*	453.	78.	AG	1165.	40.0	11.8	.0	32.0		
11. F4BC SILVERS EB DEP	*	1248.	2037.	1795.	2129.	*	555.	80.	AG	1165.	40.0	11.8	.0	44.0		
12. F5AB MERCER NB APP	*	816.	1957.	991.	954.	*	1018.	170.	AG	131.	30.0	11.4	.0	44.0		
13. F6AB MERCER SB DEP	*	793.	1950.	968.	952.	*	1014.	170.	AG	165.	30.0	11.4	.0	44.0		
14. F7AB SILVERS EB APP	*	806.	1943.	660.	1922.	*	147.	262.	AG	1062.	40.0	11.8	.0	56.0		
15. F7BC SILVERS EB APP	*	662.	1923.	72.	1814.	*	599.	260.	AG	1062.	40.0	11.8	.0	44.0		
16. F8AB SILVERS WB DEP	*	801.	1966.	69.	1834.	*	745.	260.	AG	748.	40.0	11.8	.0	32.0		
17. Q1AB MERCER SB R	*	776.	2008.	776.	2013.	*	5.	356.	AG	137.	.0	100.0	.0	12.0	.09	.3
18. Q2AB MERCER SB TL	*	787.	2005.	785.	2023.	*	19.	355.	AG	137.	.0	100.0	.0	12.0	.30	.9
19. Q3AB SILVER WB TR	*	869.	1987.	927.	1999.	*	59.	79.	AG	38.	.0	100.0	.0	12.0	.68	3.0
20. Q4AB SILVER WB L	*	871.	1980.	880.	1984.	*	10.	62.	AG	38.	.0	100.0	.0	12.0	.12	.5
21. Q5AB MERCER NB R	*	837.	1973.	862.	1986.	*	28.	62.	AG	137.	.0	100.0	.0	12.0	.46	1.4
22. Q6AB MERCER NB TL	*	818.	1909.	819.	1901.	*	8.	170.	AG	137.	.0	100.0	.0	12.0	.14	.4
23. Q7AB SILVER EB TR	*	761.	1908.	745.	1845.	*	65.	195.	AG	62.	.0	100.0	.0	12.0	.57	3.3
24. Q8AB SILVER EB T	*	753.	1938.	689.	1927.	*	65.	260.	AG	62.	.0	100.0	.0	12.0	.57	3.3
25. Q9AB SILVER EB L	*	751.	1944.	747.	1943.	*	4.	260.	AG	62.	.0	100.0	.0	12.0	.03	.2

1

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.151 0
RUN: INT #8 2008 EXISTING

DATE: 09/07/2006 TIME: 09:32
POLLUTANT: 1 CO FILENAME: rf0808ex.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
17. Q1AB MERCER SB R	65	51	3.0	19	1600	65.21	1	3	1
18. Q2AB MERCER SB TL	65	51	3.0	67	1600	65.21	1	3	1
19. Q3AB SILVER WB TR	65	14	3.0	773	1600	65.21	1	3	1
20. Q4AB SILVER WB L	65	14	3.0	131	1600	65.21	1	3	1
21. Q5AB MERCER NB R	65	51	3.0	101	1600	65.21	1	3	1
22. Q6AB MERCER NB TL	65	51	3.0	30	1600	65.21	1	3	1
23. Q7AB SILVER EB TR	65	23	3.0	515	1600	65.21	1	3	1
24. Q8AB SILVER EB T	65	23	3.0	516	1600	65.21	1	3	1
25. Q9AB SILVER EB L	65	23	3.0	31	1600	65.21	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 MERCER SB APP 3	748.0	2012.7	6.0
2. R2 MERCER SB APP 25	746.0	2087.1	6.0
3. R3 MERCER SB APP 50	742.9	2163.5	6.0
4. R4 MERCER NB DEP 3	837.9	2024.1	6.0
5. R5 MERCER NB DEP 25	832.8	2089.1	6.0
6. R6 MERCER NB DEP 50	856.4	2149.1	6.0
7. R7 SILVER WB APP 3	876.1	2022.0	6.0
8. R8 SILVER WB APP 25	942.2	2036.5	6.0
9. R9 SILVER WB APP 50	1020.8	2047.8	6.0
10. R10 SILVER EB DEP 3	893.7	1931.1	6.0
11. R11 SILVER EB DEP 25	960.8	1944.5	6.0
12. R12 SILVER EB DEP 50	1042.5	1964.2	6.0
13. R13 MERCER NB APP 3	863.8	1901.2	6.0
14. R14 MERCER NB APP 25	875.1	1833.0	6.0
15. R15 MERCER NB APP 50	889.6	1751.4	6.0
16. R16 MERCER SB DEP 3	771.8	1889.8	6.0
17. R17 MERCER SB DEP 25	786.3	1821.6	6.0
18. R18 MERCER SB DEP 50	799.7	1735.9	6.0
19. R19 SILVER EB APP 3	754.2	1904.5	6.0
20. R20 SILVER EB APP 25	689.2	1895.1	6.0
21. R21 SILVER EB APP 50	611.7	1887.7	6.0
22. R22 SILVER WB DEP 3	732.6	1996.2	6.0

23. R23 SILVER WB DEP 25	*	675.8	1984.8	6.0	*
24. R24 SILVER WB DEP 50	*	594.1	1974.5	6.0	*
25. R25 HOUSE 1	*	983.6	2067.5	6.0	*
26. R26 HOUSE 2	*	1055.9	2072.6	6.0	*
27. R27 HOUSE 3	*	1057.9	1944.5	6.0	*
28. R28 HOUSE 4	*	902.0	1859.8	6.0	*
29. R29 HOUSE 5	*	697.4	2024.1	6.0	*
30. R30 HOUSE 6	*	915.4	1740.0	6.0	*
31. R31 HOUSE 7	*	931.9	1637.8	6.0	*
32. R32 HOUSE 8	*	734.6	1901.2	6.0	*
33. R33 HOUSE 9	*	774.9	1685.3	6.0	*
34. R34 HOUSE 10	*	800.7	1614.0	6.0	*

1

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 0
RUN: INT #8 2008 EXISTING
POLLUTANT: 1 CO FILENAME: rf0808ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.9	4.9	4.9	4.8	4.6	4.5	4.7	4.7	4.6	4.8	5.0
20. *	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.9	4.9	4.9	4.8	4.6	4.5	4.8	4.6	4.6	5.0	5.0
30. *	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	5.0	4.9	5.0	4.8	4.6	4.5	4.8	4.7	4.6	5.0	5.0
40. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.0	5.1	4.8	4.6	4.5	4.9	4.7	4.6	5.1	5.0
50. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.1	5.0	4.8	4.6	4.5	5.0	4.7	4.6	5.1	5.3
60. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.2	5.2	4.8	4.7	4.5	5.1	4.8	4.7	5.4	5.4
70. *	4.4	4.3	4.3	4.4	4.3	4.3	4.4	4.5	4.6	5.1	5.1	5.1	4.8	4.6	4.4	5.1	4.7	4.5	5.4	5.4
80. *	4.8	4.3	4.3	4.8	4.5	4.3	4.8	4.8	4.8	4.8	4.8	4.8	4.6	4.4	4.3	4.8	4.4	4.4	5.3	5.0
90. *	5.1	4.7	4.5	5.0	4.7	4.5	5.0	5.0	5.1	4.4	4.5	4.5	4.3	4.3	4.3	4.4	4.4	4.4	4.7	4.6
100. *	5.0	4.6	4.6	4.9	4.6	4.6	5.0	5.1	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.5
110. *	4.9	4.5	4.5	4.9	4.7	4.6	4.9	4.9	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.4
120. *	4.7	4.5	4.5	4.8	4.7	4.5	5.0	4.9	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.5	4.4
130. *	4.8	4.5	4.5	4.8	4.5	4.5	5.0	4.8	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.6	4.3
140. *	4.7	4.5	4.5	4.8	4.5	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.7	4.3

150. *	4.7	4.5	4.5	4.8	4.5	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.7	4.3
160. *	4.8	4.6	4.5	4.8	4.5	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.7	4.3
170. *	4.8	4.5	4.4	4.8	4.5	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.4	4.4	4.7	4.3
180. *	4.7	4.5	4.5	4.9	4.5	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3	4.7	4.3
190. *	4.8	4.5	4.5	4.9	4.6	4.5	4.9	4.8	4.9	4.3	4.3	4.3	4.5	4.5	4.4	4.3	4.3	4.3	4.6	4.3
200. *	4.8	4.5	4.6	4.7	4.5	4.4	4.9	4.8	4.9	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.3	4.3	4.5	4.3
210. *	4.7	4.6	4.5	4.8	4.5	4.5	5.0	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.3
220. *	4.8	4.5	4.5	4.7	4.6	4.6	5.0	4.9	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.4	4.3
230. *	4.8	4.6	4.5	4.9	4.6	4.5	5.0	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.3	4.3
240. *	4.7	4.5	4.5	4.8	4.5	4.5	5.0	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.5	4.3	4.3	4.3	4.3
250. *	4.7	4.5	4.3	4.9	4.5	4.5	4.9	4.9	5.0	4.5	4.6	4.5	4.4	4.3	4.3	4.6	4.3	4.3	4.5	4.5
260. *	4.5	4.3	4.3	4.6	4.3	4.3	4.7	4.7	4.7	4.9	4.8	5.0	4.6	4.4	4.3	4.8	4.4	4.3	4.9	4.8
270. *	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.4	4.4	5.0	5.1	5.2	5.0	4.5	4.4	5.1	4.5	4.3	5.1	5.1
280. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.1	5.1	4.8	4.5	4.5	5.1	4.6	4.5	5.1	5.1
290. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	4.9	5.1	4.7	4.6	4.5	5.1	4.6	4.5	5.1	5.1
300. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.1	4.9	5.0	4.7	4.5	4.5	5.2	4.6	4.5	5.0	5.0
310. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	4.9	4.9	4.8	4.6	4.5	5.0	4.7	4.5	5.0	4.9
320. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	4.9	4.9	4.8	4.5	4.5	4.9	4.6	4.5	5.0	5.0
330. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	4.9	4.9	4.7	4.6	4.4	4.9	4.7	4.5	5.0	4.9
340. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.5	4.4	4.8	4.7	4.5	5.0	4.9
350. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.5	4.5	4.7	4.6	4.5	5.0	4.9
360. *	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.9	4.9	4.6	4.5	4.7	4.6	4.5	4.9	5.0
MAX *	5.1	4.7	4.6	5.0	4.7	4.6	5.0	5.1	5.2	5.2	5.2	5.2	5.0	4.7	4.5	5.2	4.8	4.7	5.4	5.4
DEGR. *	90	90	100	90	90	100	90	100	100	280	60	60	270	60	10	300	60	60	70	60

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PAGE 4

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 0
RUN: INT #8 2008 EXISTING
POLLUTANT: 1 CO FILENAME: rf0808ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	* CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34

10. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.5	4.9	4.4	4.6
20. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.5	5.0	4.5	4.6
30. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.4	4.9	4.5	4.5
40. *	5.0	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.4	5.0	4.5	4.4
50. *	5.1	4.3	4.3	4.3	4.3	4.3	4.9	4.6	4.3	4.6	4.5	5.1	4.5	4.4
60. *	5.3	4.4	4.3	4.3	4.3	4.3	4.8	4.7	4.3	4.5	4.4	5.1	4.4	4.4
70. *	5.2	4.5	4.4	4.4	4.3	4.4	4.7	4.6	4.3	4.4	4.3	5.4	4.3	4.3
80. *	5.2	4.9	4.8	4.7	4.6	4.6	4.6	4.4	4.7	4.3	4.3	5.2	4.3	4.3
90. *	4.6	4.9	5.0	4.8	4.8	4.9	4.4	4.3	4.7	4.3	4.3	4.6	4.3	4.3
100. *	4.3	4.9	4.9	4.9	4.9	4.9	4.3	4.3	4.7	4.3	4.3	4.4	4.3	4.3
110. *	4.3	4.9	4.9	4.7	4.7	4.9	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.3
120. *	4.3	4.9	4.8	4.8	4.7	4.8	4.3	4.3	4.7	4.3	4.3	4.4	4.3	4.3
130. *	4.3	4.8	4.9	4.8	4.7	4.8	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.3
140. *	4.3	4.7	4.9	4.8	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.4
150. *	4.3	4.8	4.9	4.7	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.4
160. *	4.3	4.8	4.9	4.7	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.4
170. *	4.3	4.9	4.8	4.7	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.4	4.3	4.3
180. *	4.3	4.9	4.8	4.7	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.3	4.3	4.3
190. *	4.3	4.9	4.8	4.7	4.7	4.7	4.3	4.3	4.6	4.3	4.3	4.3	4.3	4.3
200. *	4.3	4.9	4.8	4.7	4.7	4.8	4.3	4.3	4.6	4.3	4.3	4.3	4.3	4.3
210. *	4.3	4.7	4.8	4.8	4.7	4.8	4.3	4.3	4.7	4.3	4.3	4.3	4.3	4.3
220. *	4.3	4.8	4.8	4.8	4.7	4.8	4.3	4.3	4.7	4.3	4.3	4.3	4.3	4.3
230. *	4.3	4.8	4.9	4.8	4.8	4.8	4.3	4.3	4.7	4.3	4.3	4.3	4.3	4.3
240. *	4.4	5.0	4.9	4.9	4.9	5.0	4.3	4.3	4.7	4.3	4.3	4.3	4.3	4.3
250. *	4.6	4.8	4.8	4.7	4.7	4.9	4.3	4.3	4.6	4.3	4.3	4.5	4.3	4.3
260. *	4.9	4.7	4.7	4.5	4.5	4.6	4.7	4.4	4.5	4.3	4.3	4.9	4.3	4.3
270. *	5.2	4.4	4.4	4.3	4.3	4.3	4.9	4.5	4.3	4.3	4.3	5.1	4.3	4.3
280. *	5.2	4.3	4.3	4.3	4.3	4.3	4.9	4.6	4.3	4.5	4.3	5.1	4.4	4.3
290. *	5.0	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.4	5.1	4.5	4.4
300. *	5.0	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.5	5.1	4.5	4.5
310. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.5	5.0	4.5	4.5
320. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.4	5.0	4.5	4.5
330. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.4	4.4	4.9	4.5	4.4
340. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.3	5.0	4.5	4.4
350. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.5	5.0	4.5	4.4
360. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.6	4.3	4.5	4.5	5.0	4.4	4.3
MAX *	5.3	5.0	5.0	4.9	4.9	5.0	4.9	4.7	4.7	4.6	4.5	5.4	4.5	4.6
DEGR. *	60	240	90	100	100	240	50	60	80	50	10	70	20	10

THE HIGHEST CONCENTRATION IS 5.4 PPM AT 70 DEGREES FROM REC19.

1

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 0
RUN: INT #8 2008 EXISTING
DATE: 09/07/2006 TIME: 09:32

POLLUTANT: 1 CO FILENAME: rf0808ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	90	90	100	90	90	100	90	100	100	280	60	60	270	60	10	300	60	60	70	60
1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.2	.1	.1	.3	.1	.1	.3	.4	.4	.1	.2	.2	.0	.1	.1	.0	.1	.0	.2	.2
9 *	.1	.1	.1	.1	.1	.1	.1	.0	.1	.0	.1	.1	.0	.1	.0	.0	.0	.1	.1	.0
10 *	.2	.1	.0	.2	.1	.0	.2	.3	.3	.3	.5	.5	.0	.1	.1	.0	.2	.1	.4	.2
11 *	.1	.1	.1	.1	.1	.1	.1	.1	.1	.0	.1	.1	.0	.1	.0	.0	.1	.1	.1	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	.0	.0	.2	.5
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0
16 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1
17 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.1	.0
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
25 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

I

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 0
RUN: INT #8 2008 EXISTING
DATE: 09/07/2006 TIME: 09:32
POLLUTANT: 1 CO FILENAME: rf0808ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)

* ANGLE (DEGREES)

LINK #	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34
	60	240	90	100	100	240	50	60	80	50	10	70	20	10
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.1	.0	.2	.1	.2	.3	.2	.1	.1	.0	.1	.2	.1	.1
9	.0	.0	.0	.0	.1	.0	.1	.1	.1	.1	.0	.1	.0	.0
10	.1	.0	.2	.1	.2	.2	.3	.1	.1	.1	.1	.3	.1	.1
11	.0	.0	.1	.0	.1	.0	.0	.1	.1	.1	.0	.1	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
14	.3	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.3	.0	.0
15	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.2	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2008 EX RF0808EX.I51 0
INT #8 2008 EXISTING

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MERCER SB APP 3	5.1	3.6
2	R2 MERCER SB APP 25	4.7	3.3
3	R3 MERCER SB APP 50	4.6	3.2
4	R4 MERCER NB DEP 3	5.0	3.5
5	R5 MERCER NB DEP 25	4.7	3.3
6	R6 MERCER NB DEP 50	4.6	3.2
7	R7 SILVER WB APP 3	5.0	3.5
8	R8 SILVER WB APP 25	5.1	3.6
9	R9 SILVER WB APP 50	5.2	3.6
10	R10 SILVER EB DEP 3	5.2	3.6
11	R11 SILVER EB DEP 25	5.2	3.6
12	R12 SILVER EB DEP 50	5.2	3.6
13	R13 MERCER NB APP 3	5.0	3.5
14	R14 MERCER NB APP 25	4.7	3.3
15	R15 MERCER NB APP 50	4.5	3.1
16	R16 MERCER SB DEP 3	5.2	3.6
17	R17 MERCER SB DEP 25	4.8	3.3
18	R18 MERCER SB DEP 50	4.7	3.3
19	R19 SILVER EB APP 3	5.4	3.8
20	R20 SILVER EB APP 25	5.4	3.8
21	R21 SILVER EB APP 50	5.3	3.7
22	R22 SILVER WB DEP 3	5.0	3.5
23	R23 SILVER WB DEP 25	5.0	3.5
24	R24 SILVER WB DEP 50	4.9	3.4
25	R25 HOUSE 1	4.9	3.4
26	R26 HOUSE 2	5.0	3.5
27	R27 HOUSE 3	4.9	3.4
28	R28 HOUSE 4	4.7	3.3
29	R29 HOUSE 5	4.7	3.3
30	R30 HOUSE 6	4.6	3.2
31	R31 HOUSE 7	4.5	3.1
32	R32 HOUSE 8	5.4	3.8
33	R33 HOUSE 9	4.5	3.1
34	R34 HOUSE 10	4.6	3.2

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.151
RUN: INT #8 2020 BUILD
DATE: 09/07/2006 TIME: 09:34
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MERCER SB APP	*	792.	1951.	775.	2151.	*	201.	355.	AG	423.	30.0	8.0	.0	44.0		
2. F1BC MERCER SB APP	*	775.	2151.	840.	2307.	*	168.	23.	AG	423.	30.0	8.0	.0	32.0		
3. F1CD MERCER SB APP	*	840.	2306.	1065.	2473.	*	281.	54.	AG	423.	30.0	8.0	.0	32.0		
4. F1DE MERCER SB APP	*	1065.	2470.	1408.	2535.	*	349.	79.	AG	423.	30.0	8.0	.0	32.0		
5. F2AB MERCER NB DEP	*	816.	1958.	803.	2116.	*	158.	355.	AG	402.	30.0	8.0	.0	32.0		
6. F2BC MERCER NB DEP	*	803.	2116.	942.	2274.	*	210.	41.	AG	402.	30.0	8.0	.0	32.0		
7. F2CD MERCER NB DEP	*	943.	2275.	1577.	2404.	*	648.	79.	AG	402.	30.0	8.0	.0	32.0		
8. F3AB SILVERS WB APP	*	803.	1966.	1231.	2061.	*	438.	77.	AG	1306.	30.0	8.0	.0	56.0		
9. F3BC SILVERS WB APP	*	1231.	2060.	1796.	2153.	*	572.	81.	AG	1306.	30.0	8.0	.0	32.0		
10. F4AB SILVERS EB DEP	*	807.	1943.	1250.	2038.	*	453.	78.	AG	1183.	30.0	8.0	.0	32.0		
11. F4BC SILVERS EB DEP	*	1248.	2037.	1795.	2129.	*	555.	80.	AG	1183.	30.0	8.0	.0	44.0		
12. F5AB MERCER NB APP	*	816.	1957.	991.	954.	*	1018.	170.	AG	543.	30.0	8.0	.0	44.0		
13. F6AB MERCER SB DEP	*	793.	1950.	968.	952.	*	1014.	170.	AG	577.	30.0	8.0	.0	44.0		
14. F7AB SILVERS EB APP	*	806.	1943.	660.	1922.	*	147.	262.	AG	1112.	30.0	8.0	.0	56.0		
15. F7BC SILVERS EB APP	*	662.	1923.	72.	1814.	*	599.	260.	AG	1112.	30.0	8.0	.0	44.0		
16. F8AB SILVERS WB DEP	*	801.	1966.	69.	1834.	*	745.	260.	AG	1222.	30.0	8.0	.0	32.0		
17. Q1AB MERCER SB R	*	776.	2008.	776.	2009.	*	2.	356.	AG	60.	.0	100.0	.0	12.0	.01	.1
18. Q2AB MERCER SB TL	*	787.	2005.	777.	2123.	*	119.	355.	AG	60.	.0	100.0	.0	12.0	.61	6.0
19. Q3AB SILVER WB TR	*	867.	1987.	1022.	2020.	*	158.	78.	AG	55.	.0	100.0	.0	12.0	.79	8.1
20. Q4AB SILVER WB T	*	869.	1980.	1024.	2012.	*	158.	78.	AG	55.	.0	100.0	.0	12.0	.79	8.0
21. Q5AB SILVER WB L	*	871.	1973.	900.	1979.	*	30.	77.	AG	55.	.0	100.0	.0	12.0	.15	1.5
22. Q6AB MERCER NB R	*	837.	1909.	845.	1864.	*	45.	170.	AG	72.	.0	100.0	.0	12.0	.25	2.3
23. Q7AB MERCER NB TL	*	818.	1908.	842.	1766.	*	144.	170.	AG	72.	.0	100.0	.0	12.0	.77	7.3
24. Q8AB SILVER EB TR	*	761.	1934.	555.	1897.	*	209.	260.	AG	66.	.0	100.0	.0	12.0	.90	10.6
25. Q9AB SILVER EB T	*	753.	1938.	547.	1902.	*	209.	260.	AG	66.	.0	100.0	.0	12.0	.90	10.6
26. Q10AB SILVER EB L	*	751.	1944.	746.	1943.	*	6.	260.	AG	66.	.0	100.0	.0	12.0	.03	.3

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RUN: INT #8 2020 BUILD
DATE: 09/07/2006 TIME: 09:34
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
17. Q1AB MERCER SB R	100	52	3.0	6	1600	43.08	1	3	1
18. Q2AB MERCER SB TL	100	52	3.0	417	1600	43.08	1	3	1
19. Q3AB SILVER WB TR	100	48	3.0	596	1600	43.08	1	3	1
20. Q4AB SILVER WB T	100	48	3.0	595	1600	43.08	1	3	1
21. Q5AB SILVER WB L	100	48	3.0	115	1600	43.08	1	3	1
22. Q6AB MERCER NB R	100	62	3.0	134	1600	43.08	1	3	1
23. Q7AB MERCER NB TL	100	62	3.0	409	1600	43.08	1	3	1
24. Q8AB SILVER EB TR	100	57	3.0	547	1600	43.08	1	3	1
25. Q9AB SILVER EB T	100	57	3.0	547	1600	43.08	1	3	1
26. Q10AB SILVER EB L	100	57	3.0	18	1600	43.08	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 MERCER SB APP 3	748.0	2012.7	6.0
2. R2 MERCER SB APP 25	746.0	2087.1	6.0
3. R3 MERCER SB APP 50	742.9	2163.5	6.0
4. R4 MERCER NB DEP 3	837.9	2024.1	6.0
5. R5 MERCER NB DEP 25	832.8	2089.1	6.0
6. R6 MERCER NB DEP 50	856.4	2149.1	6.0
7. R7 SILVER WB APP 3	876.1	2022.0	6.0
8. R8 SILVER WB APP 25	942.2	2036.5	6.0
9. R9 SILVER WB APP 50	1020.8	2047.8	6.0
10. R10 SILVER EB DEP 3	893.7	1931.1	6.0
11. R11 SILVER EB DEP 25	960.8	1944.5	6.0
12. R12 SILVER EB DEP 50	1042.5	1964.2	6.0
13. R13 MERCER NB APP 3	863.8	1901.2	6.0
14. R14 MERCER NB APP 25	875.1	1833.0	6.0
15. R15 MERCER NB APP 50	889.6	1751.4	6.0
16. R16 MERCER SB DEP 3	771.8	1889.8	6.0
17. R17 MERCER SB DEP 25	786.3	1821.6	6.0
18. R18 MERCER SB DEP 50	799.7	1735.9	6.0
19. R19 SILVER EB APP 3	754.2	1904.5	6.0
20. R20 SILVER EB APP 25	689.2	1895.1	6.0

21. R21 SILVER EB APP 50 * 611.7 1887.7 6.0 *
22. R22 SILVER WB DEP 3 * 732.6 1996.2 6.0 *
23. R23 SILVER WB DEP 25 * 675.8 1984.8 6.0 *
24. R24 SILVER WB DEP 50 * 594.1 1974.5 6.0 *
25. R25 HOUSE 1 * 983.6 2067.5 6.0 *
26. R26 HOUSE 2 * 1055.9 2072.6 6.0 *
27. R27 HOUSE 3 * 1057.9 1944.5 6.0 *
28. R28 HOUSE 4 * 902.0 1859.8 6.0 *
29. R29 HOUSE 5 * 697.4 2024.1 6.0 *
30. R30 HOUSE 6 * 915.4 1740.0 6.0 *
31. R31 HOUSE 7 * 931.9 1637.8 6.0 *
32. R32 HOUSE 8 * 734.6 1901.2 6.0 *
33. R33 HOUSE 9 * 774.9 1685.3 6.0 *
34. R34 HOUSE 10 * 800.7 1614.0 6.0 *

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JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.151
RUN: INT #8 2020 BUILD
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	4.5	4.3	4.3	4.3	4.4	4.4	4.3	4.3	4.3	5.0	4.9	4.8	4.7	4.5	4.5	4.8	4.9	4.9	5.0	5.0
20. *	4.5	4.5	4.3	4.3	4.4	4.5	4.3	4.3	4.3	5.1	5.0	4.9	4.9	4.5	4.5	5.0	4.9	4.9	4.9	5.0
30. *	4.5	4.5	4.4	4.3	4.4	4.5	4.3	4.3	4.3	5.1	5.1	4.9	4.9	4.5	4.5	4.7	4.9	4.9	5.0	5.0
40. *	4.6	4.6	4.4	4.3	4.3	4.4	4.3	4.3	4.3	5.1	5.0	4.9	4.9	4.5	4.5	5.0	5.0	4.9	5.0	5.1
50. *	4.6	4.6	4.4	4.3	4.3	4.4	4.3	4.3	4.3	5.1	4.9	4.9	4.8	4.5	4.4	5.0	4.8	4.8	5.0	5.1
60. *	4.6	4.6	4.4	4.3	4.3	4.3	4.3	4.3	4.4	5.0	5.0	5.0	4.7	4.7	4.5	5.0	4.8	4.6	5.2	5.2
70. *	4.7	4.5	4.4	4.4	4.3	4.3	4.4	4.5	4.5	5.0	5.0	4.9	4.8	4.5	4.3	5.2	4.9	4.5	5.3	5.2
80. *	5.0	4.5	4.5	4.8	4.4	4.3	4.9	4.8	4.8	4.8	4.7	4.6	4.6	4.3	4.3	5.0	4.6	4.5	5.1	4.9
90. *	5.2	4.9	4.6	5.0	4.6	4.5	5.3	5.0	5.0	4.4	4.3	4.4	4.3	4.3	4.3	4.7	4.6	4.5	4.7	4.6
100. *	5.1	4.8	4.7	5.0	4.6	4.6	5.1	5.0	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6	4.5	4.6	4.4
110. *	4.9	4.8	4.5	5.0	4.6	4.5	5.1	5.1	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.5	4.6	4.6
120. *	4.8	4.8	4.6	5.0	4.6	4.5	5.0	5.0	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.7	4.5	4.6	4.5

130. *	4.9	4.8	4.6	5.0	4.6	4.5	5.0	5.0	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7	4.6	4.6	4.5
140. *	5.0	4.8	4.8	4.8	4.5	4.5	5.0	5.0	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6	4.6	4.6	4.5
150. *	5.0	4.8	4.8	4.6	4.5	4.5	5.0	5.0	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6	4.6	4.7	4.5
160. *	4.9	4.8	4.8	4.8	4.5	4.5	5.1	5.0	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.6	4.5	4.4
170. *	4.9	4.8	4.9	4.8	4.7	4.6	5.2	5.0	4.8	4.4	4.3	4.3	4.5	4.5	4.5	4.6	4.6	4.6	4.5	4.3
180. *	4.9	4.6	4.5	4.9	4.8	4.7	5.3	5.0	5.0	4.5	4.3	4.3	4.6	4.6	4.6	4.4	4.4	4.4	4.3	4.3
190. *	4.9	4.5	4.5	5.0	4.8	4.6	5.2	5.2	5.0	4.5	4.5	4.3	4.7	4.6	4.6	4.3	4.3	4.3	4.3	4.3
200. *	4.9	4.5	4.4	5.0	4.8	4.6	5.1	5.2	5.0	4.6	4.5	4.3	4.8	4.6	4.6	4.3	4.3	4.3	4.3	4.3
210. *	4.9	4.5	4.5	4.9	4.8	4.7	4.9	5.2	5.0	4.6	4.5	4.3	4.7	4.6	4.5	4.3	4.3	4.3	4.3	4.3
220. *	4.9	4.5	4.5	4.9	4.8	4.8	4.9	5.0	5.1	4.7	4.5	4.3	4.7	4.6	4.5	4.3	4.3	4.3	4.3	4.3
230. *	4.9	4.5	4.5	5.1	4.8	4.8	4.9	5.0	5.1	4.7	4.4	4.3	4.7	4.6	4.5	4.3	4.3	4.3	4.3	4.3
240. *	4.8	4.5	4.5	5.2	4.8	4.8	5.1	5.1	5.2	4.7	4.3	4.3	4.7	4.6	4.5	4.3	4.3	4.3	4.3	4.3
250. *	4.7	4.5	4.3	4.9	4.8	4.6	5.0	4.9	5.3	4.8	4.4	4.4	4.7	4.6	4.5	4.3	4.3	4.3	4.5	4.4
260. *	4.5	4.3	4.3	4.8	4.6	4.4	4.8	4.6	4.7	5.1	4.7	4.9	5.0	4.6	4.5	4.5	4.3	4.3	4.9	4.8
270. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.4	4.4	5.3	5.0	5.1	5.3	4.8	4.5	5.0	4.5	4.3	5.1	5.2
280. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.3	4.3	5.0	5.0	5.2	5.3	4.8	4.7	5.0	4.5	4.5	5.4	5.3
290. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.3	4.3	5.0	4.8	5.1	5.0	5.0	4.8	5.0	4.5	4.5	5.2	5.2
300. *	4.3	4.3	4.3	4.6	4.5	4.5	4.5	4.3	4.3	4.9	5.1	5.1	4.8	4.8	4.8	4.9	4.7	4.5	5.1	5.1
310. *	4.3	4.3	4.3	4.6	4.5	4.5	4.3	4.3	4.3	4.8	5.1	5.1	4.8	4.9	4.8	4.9	4.8	4.5	5.0	5.1
320. *	4.3	4.3	4.3	4.6	4.3	4.5	4.3	4.3	4.3	4.9	5.0	5.0	4.9	4.9	4.8	4.9	4.7	4.4	5.0	5.0
330. *	4.3	4.3	4.3	4.5	4.4	4.5	4.3	4.3	4.3	4.7	4.9	5.0	5.0	4.8	4.8	4.9	4.6	4.5	5.0	5.0
340. *	4.3	4.3	4.3	4.4	4.5	4.5	4.3	4.3	4.3	4.8	4.9	4.8	4.8	4.7	4.6	4.8	4.5	4.5	5.0	5.0
350. *	4.3	4.3	4.3	4.3	4.5	4.4	4.3	4.3	4.3	5.1	4.9	4.8	4.7	4.5	4.6	4.7	4.6	4.6	5.0	5.0
360. *	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.3	4.3	5.0	4.9	4.8	4.7	4.5	4.5	4.8	4.6	4.7	5.0	5.0
MAX *	5.2	4.9	4.9	5.2	4.8	4.8	5.3	5.2	5.3	5.3	5.1	5.2	5.3	5.0	4.8	5.2	5.0	4.9	5.4	5.3
DEGR. *	90	90	170	240	180	220	90	190	250	270	30	280	270	290	290	70	40	10	280	280

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PAGE 4

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.I51
RUN: INT #8 2020 BUILD
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND * CONCENTRATION
ANGLE * (PPM)

(DEGR)*	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34
10. *	5.1	4.3	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.5	5.0	4.6	4.6
20. *	5.1	4.5	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.5	5.1	4.8	4.7
30. *	5.2	4.5	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.4	5.0	4.8	4.7
40. *	5.3	4.5	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.3	4.9	4.7	4.6
50. *	5.4	4.5	4.3	4.3	4.3	4.3	4.8	4.5	4.4	4.4	4.4	5.0	4.7	4.5
60. *	5.5	4.5	4.3	4.3	4.3	4.3	4.8	4.7	4.5	4.5	4.3	5.0	4.5	4.5
70. *	5.4	4.6	4.4	4.4	4.3	4.4	4.6	4.5	4.5	4.3	4.3	5.2	4.5	4.5
80. *	5.1	4.9	4.7	4.6	4.6	4.6	4.5	4.3	4.6	4.3	4.3	5.0	4.5	4.5
90. *	4.5	4.9	4.7	4.7	4.8	4.8	4.3	4.3	4.7	4.3	4.3	4.7	4.5	4.5
100. *	4.3	4.9	4.8	4.8	4.8	4.9	4.3	4.3	4.7	4.3	4.3	4.6	4.5	4.5
110. *	4.3	4.9	4.8	4.9	4.7	4.8	4.3	4.3	4.6	4.3	4.3	4.6	4.5	4.5
120. *	4.3	4.9	4.8	4.9	4.7	4.8	4.3	4.3	4.7	4.3	4.3	4.6	4.5	4.5
130. *	4.3	4.9	5.1	4.9	4.6	4.8	4.3	4.3	4.6	4.3	4.3	4.6	4.5	4.5
140. *	4.4	5.0	5.1	4.9	4.6	4.7	4.3	4.3	4.7	4.3	4.3	4.6	4.5	4.5
150. *	4.3	5.0	5.1	4.9	4.7	4.6	4.3	4.3	4.7	4.3	4.3	4.5	4.5	4.5
160. *	4.3	4.9	5.1	4.9	4.8	4.6	4.3	4.3	4.9	4.3	4.3	4.5	4.5	4.5
170. *	4.3	5.1	4.9	4.9	4.8	4.6	4.3	4.4	4.8	4.4	4.4	4.4	4.4	4.4
180. *	4.3	4.9	4.9	4.9	4.8	4.6	4.3	4.5	4.8	4.5	4.5	4.3	4.3	4.3
190. *	4.3	4.9	4.9	4.9	4.8	4.6	4.3	4.5	4.7	4.5	4.5	4.3	4.3	4.3
200. *	4.3	4.9	4.9	4.9	4.8	4.8	4.3	4.5	4.9	4.5	4.5	4.3	4.3	4.3
210. *	4.3	4.9	4.9	4.8	4.8	4.8	4.3	4.5	4.8	4.5	4.5	4.3	4.3	4.3
220. *	4.3	5.0	5.0	4.7	4.9	5.0	4.3	4.6	4.8	4.5	4.5	4.3	4.3	4.3
230. *	4.3	5.0	5.0	4.8	4.7	5.0	4.3	4.6	4.7	4.5	4.5	4.3	4.3	4.3
240. *	4.4	5.0	4.8	4.8	4.9	5.0	4.3	4.6	4.7	4.5	4.5	4.3	4.3	4.3
250. *	4.6	4.8	4.8	4.7	4.6	4.8	4.3	4.6	4.6	4.5	4.5	4.4	4.3	4.3
260. *	4.9	4.6	4.6	4.5	4.5	4.6	4.6	4.7	4.5	4.5	4.5	4.8	4.3	4.3
270. *	5.2	4.4	4.4	4.3	4.3	4.3	4.8	4.8	4.3	4.5	4.5	5.2	4.3	4.3
280. *	5.2	4.3	4.3	4.3	4.3	4.3	4.8	5.0	4.3	4.7	4.5	5.3	4.3	4.3
290. *	5.3	4.3	4.3	4.3	4.3	4.3	4.9	4.9	4.3	4.7	4.7	5.2	4.5	4.3
300. *	5.1	4.3	4.3	4.3	4.3	4.3	4.9	4.8	4.3	4.8	4.7	5.2	4.5	4.5
310. *	5.1	4.3	4.3	4.3	4.3	4.3	4.9	4.7	4.3	4.8	4.6	5.0	4.5	4.5
320. *	5.1	4.3	4.3	4.3	4.3	4.3	4.9	4.5	4.3	4.8	4.6	5.0	4.5	4.5
330. *	5.1	4.3	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.6	4.5	4.9	4.4	4.4
340. *	5.1	4.3	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.4	5.0	4.4	4.4
350. *	5.1	4.3	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.4	5.0	4.5	4.3
360. *	5.1	4.3	4.3	4.3	4.3	4.3	4.7	4.5	4.3	4.5	4.5	5.0	4.5	4.4
MAX *	5.5	5.1	5.1	4.9	4.9	5.0	4.9	5.0	4.9	4.8	4.7	5.3	4.8	4.7
DEGR. *	60	170	130	110	220	220	290	280	160	300	290	280	20	20

THE HIGHEST CONCENTRATION IS 5.5 PPM AT 60 DEGREES FROM REC21.

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JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.I51

RUN: INT #8 2020 BUILD
DATE: 09/07/2006 TIME: 09:34
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK #	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	90	90	170	240	180	220	90	190	250	270	30	280	270	290	290	70	40	10	280	280
1 *	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.3	.1	.0	.0	.1	.0	.4	.3	.4	.0	.3	.3	.0	.0	.0	.2	.1	.1	.0	.0
9 *	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
10 *	.1	.0	.0	.0	.1	.0	.2	.2	.1	.1	.3	.3	.0	.0	.0	.2	.1	.1	.0	.0
11 *	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
12 *	.0	.0	.1	.0	.1	.0	.0	.1	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0
13 *	.0	.0	.1	.0	.1	.0	.0	.1	.0	.1	.0	.0	.1	.1	.1	.1	.2	.2	.0	.0
14 *	.0	.0	.1	.1	.0	.0	.0	.0	.1	.2	.0	.0	.1	.1	.0	.0	.0	.0	.3	.1
15 *	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.2	.3
16 *	.0	.0	.1	.3	.0	.1	.0	.0	.1	.2	.0	.1	.2	.1	.1	.0	.0	.0	.3	.3
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0
24 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
25 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.I51
RUN: INT #8 2020 BUILD
DATE: 09/07/2006 TIME: 09:34
POLLUTANT: 1 CO FILENAME: rf0820bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING

THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK #	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34
*	60	170	130	110	220	220	290	280	160	300	290	280	20	20
1 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.1	.0	.0	.0	.3	.3	.2	.0	.0	.0	.0	.0	.1	.1
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.1	.0	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.1	.1
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.1	.1	.0	.0	.0	.0	.1	.1	.1	.1	.0	.1	.1
13 *	.0	.1	.1	.0	.0	.0	.0	.1	.1	.1	.1	.0	.1	.1
14 *	.2	.2	.2	.2	.0	.0	.0	.1	.1	.0	.0	.2	.0	.0
15 *	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.2	.0	.0
16 *	.2	.2	.2	.2	.0	.0	.0	.1	.1	.1	.1	.3	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0
24 *	.2	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.2	.0	.0
25 *	.2	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 BDB RF0820BD.I51
INT #8 2020 BUILD

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MERCER SB APP 3	5.2	3.6
2	R2 MERCER SB APP 25	4.9	3.4
3	R3 MERCER SB APP 50	4.9	3.4
4	R4 MERCER NB DEP 3	5.2	3.6
5	R5 MERCER NB DEP 25	4.8	3.3
6	R6 MERCER NB DEP 50	4.8	3.3
7	R7 SILVER WB APP 3	5.3	3.7
8	R8 SILVER WB APP 25	5.2	3.6
9	R9 SILVER WB APP 50	5.3	3.7
10	R10 SILVER EB DEP 3	5.3	3.7
11	R11 SILVER EB DEP 25	5.1	3.6
12	R12 SILVER EB DEP 50	5.2	3.6
13	R13 MERCER NB APP 3	5.3	3.7
14	R14 MERCER NB APP 25	5.0	3.5
15	R15 MERCER NB APP 50	4.8	3.3
16	R16 MERCER SB DEP 3	5.2	3.6
17	R17 MERCER SB DEP 25	5.0	3.5
18	R18 MERCER SB DEP 50	4.9	3.4
19	R19 SILVER EB APP 3	5.4	3.8
20	R20 SILVER EB APP 25	5.3	3.7
21	R21 SILVER EB APP 50	5.5	3.8
22	R22 SILVER WB DEP 3	5.1	3.6
23	R23 SILVER WB DEP 25	5.1	3.6
24	R24 SILVER WB DEP 50	4.9	3.4
25	R25 HOUSE 1	4.9	3.4
26	R26 HOUSE 2	5.0	3.5
27	R27 HOUSE 3	4.9	3.4
28	R28 HOUSE 4	5.0	3.5
29	R29 HOUSE 5	4.9	3.4
30	R30 HOUSE 6	4.8	3.3
31	R31 HOUSE 7	4.7	3.3
32	R32 HOUSE 8	5.3	3.7
33	R33 HOUSE 9	4.8	3.3
34	R34 HOUSE 10	4.7	3.3

JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
RUN: INT #8 2020 NO BUILD FFQ
DATE: 09/07/2006 TIME: 09:52
POLLUTANT: 1 CO FILENAME: fr0820nb.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MERCER SB APP	*	792.	1951.	775.	2151.	*	201.	355.	AG	423.	30.0	8.0	.0	44.0		
2. F1BC MERCER SB APP	*	775.	2151.	840.	2307.	*	168.	23.	AG	423.	30.0	8.0	.0	32.0		
3. F1CD MERCER SB APP	*	840.	2306.	1065.	2473.	*	281.	54.	AG	423.	30.0	8.0	.0	32.0		
4. F1DE MERCER SB APP	*	1065.	2470.	1408.	2535.	*	349.	79.	AG	423.	30.0	8.0	.0	32.0		
5. F2AB MERCER NB DEP	*	816.	1958.	803.	2116.	*	158.	355.	AG	405.	30.0	8.0	.0	32.0		
6. F2BC MERCER NB DEP	*	803.	2116.	942.	2274.	*	210.	41.	AG	405.	30.0	8.0	.0	32.0		
7. F2CD MERCER NB DEP	*	943.	2275.	1577.	2404.	*	648.	79.	AG	405.	30.0	8.0	.0	32.0		
8. F3AB SILVERS WB APP	*	803.	1966.	1231.	2061.	*	438.	77.	AG	1306.	30.0	8.0	.0	56.0		
9. F3BC SILVERS WB APP	*	1231.	2060.	1796.	2153.	*	572.	81.	AG	1306.	30.0	8.0	.0	32.0		
10. F4AB SILVERS EB DEP	*	807.	1943.	1250.	2038.	*	453.	78.	AG	1183.	30.0	8.0	.0	32.0		
11. F4BC SILVERS EB DEP	*	1248.	2037.	1795.	2129.	*	555.	80.	AG	1183.	30.0	8.0	.0	44.0		
12. F5AB MERCER NB APP	*	816.	1957.	991.	954.	*	1018.	170.	AG	543.	30.0	8.0	.0	44.0		
13. F6AB MERCER SB DEP	*	793.	1950.	968.	952.	*	1014.	170.	AG	577.	30.0	8.0	.0	44.0		
14. F7AB SILVERS EB APP	*	806.	1943.	660.	1922.	*	147.	262.	AG	1112.	30.0	8.0	.0	56.0		
15. F7BC SILVERS EB APP	*	662.	1923.	72.	1814.	*	599.	260.	AG	1112.	30.0	8.0	.0	44.0		
16. F8AB SILVERS WB DEP	*	801.	1966.	69.	1834.	*	745.	260.	AG	1222.	30.0	8.0	.0	32.0		
17. Q1AB MERCER SB R	*	776.	2008.	776.	2009.	*	2.	356.	AG	60.	.0	100.0	.0	12.0	.01	.1
18. Q2AB MERCER SB TL	*	787.	2005.	777.	2123.	*	119.	355.	AG	60.	.0	100.0	.0	12.0	.61	6.0
19. Q4AB SILVER WB L	*	871.	1980.	897.	1994.	*	30.	62.	AG	55.	.0	100.0	.0	12.0	.15	1.5
20. Q5AB MERCER NB R	*	837.	1973.	877.	1994.	*	45.	62.	AG	72.	.0	100.0	.0	12.0	.25	2.3
21. Q6AB MERCER NB TL	*	818.	1909.	842.	1767.	*	144.	170.	AG	72.	.0	100.0	.0	12.0	.77	7.3
22. Q7AB SILVER EB TR	*	761.	1908.	715.	1729.	*	185.	195.	AG	64.	.0	100.0	.0	12.0	.85	9.4
23. Q8AB SILVER EB T	*	753.	1938.	571.	1906.	*	185.	260.	AG	64.	.0	100.0	.0	12.0	.85	9.4
24. Q9AB SILVER EB L	*	751.	1944.	746.	1943.	*	5.	260.	AG	64.	.0	100.0	.0	12.0	.03	.3
25. FQ3AB SILVER WB TR	*	869.	1987.	1231.	2061.	*	369.	78.	AG	55.	99.0	100.0	.0	12.0		
26. FQ3BC SILVER WB TR	*	1231.	2060.	1796.	2153.	*	573.	81.	AG	55.	99.0	100.0	.0	12.0		

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JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.

RUN: INT #8 2020 NO BUILD FFQ
DATE: 09/07/2006 TIME: 09:52
POLLUTANT: 1 CO FILENAME: fr0820nb.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	EM FAC (gm/hr)	IDLE TYPE	SIGNAL RATE	ARRIVAL	NO.OF LANES
17. Q1AB MERCER SB R	100	52	3.0	6	1600	43.08	1	3	1	
18. Q2AB MERCER SB TL	100	52	3.0	417	1600	43.08	1	3	1	
19. Q4AB SILVER WB L	100	48	3.0	115	1600	43.08	1	3	1	
20. Q5AB MERCER NB R	100	62	3.0	134	1600	43.08	1	3	1	
21. Q6AB MERCER NB TL	100	62	3.0	409	1600	43.08	1	3	1	
22. Q7AB SILVER EB TR	100	55	3.0	547	1600	43.08	1	3	1	
23. Q8AB SILVER EB T	100	55	3.0	547	1600	43.08	1	3	1	
24. Q9AB SILVER EB L	100	55	3.0	18	1600	43.08	1	3	1	

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 MERCER SB APP 3	748.0	2012.7	6.0
2. R2 MERCER SB APP 25	746.0	2087.1	6.0
3. R3 MERCER SB APP 50	742.9	2163.5	6.0
4. R4 MERCER NB DEP 3	837.9	2024.1	6.0
5. R5 MERCER NB DEP 25	832.8	2089.1	6.0
6. R6 MERCER NB DEP 50	856.4	2149.1	6.0
7. R7 SILVER WB APP 3	876.1	2022.0	6.0
8. R8 SILVER WB APP 25	942.2	2036.5	6.0
9. R9 SILVER WB APP 50	1020.8	2047.8	6.0
10. R10 SILVER EB DEP 3	893.7	1931.1	6.0
11. R11 SILVER EB DEP 25	960.8	1944.5	6.0
12. R12 SILVER EB DEP 50	1042.5	1964.2	6.0
13. R13 MERCER NB APP 3	863.8	1901.2	6.0
14. R14 MERCER NB APP 25	875.1	1833.0	6.0
15. R15 MERCER NB APP 50	889.6	1751.4	6.0
16. R16 MERCER SB DEP 3	771.8	1889.8	6.0
17. R17 MERCER SB DEP 25	786.3	1821.6	6.0
18. R18 MERCER SB DEP 50	799.7	1735.9	6.0
19. R19 SILVER EB APP 3	754.2	1904.5	6.0
20. R20 SILVER EB APP 25	689.2	1895.1	6.0
21. R21 SILVER EB APP 50	611.7	1887.7	6.0
22. R22 SILVER WB DEP 3	732.6	1996.2	6.0

23. R23 SILVER WB DEP 25	*	675.8	1984.8	6.0	*
24. R24 SILVER WB DEP 50	*	594.1	1974.5	6.0	*
25. R25 HOUSE 1	*	983.6	2067.5	6.0	*
26. R26 HOUSE 2	*	1055.9	2072.6	6.0	*
27. R27 HOUSE 3	*	1057.9	1944.5	6.0	*
28. R28 HOUSE 4	*	902.0	1859.8	6.0	*
29. R29 HOUSE 5	*	697.4	2024.1	6.0	*
30. R30 HOUSE 6	*	915.4	1740.0	6.0	*
31. R31 HOUSE 7	*	931.9	1637.8	6.0	*
32. R32 HOUSE 8	*	734.6	1901.2	6.0	*
33. R33 HOUSE 9	*	774.9	1685.3	6.0	*
34. R34 HOUSE 10	*	800.7	1614.0	6.0	*

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JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
RUN: INT #8 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0820nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	4.5	4.3	4.3	4.3	4.4	4.4	4.3	4.3	4.3	4.9	4.8	4.9	4.7	4.5	4.5	4.8	4.9	4.9	4.9	4.9
20. *	4.5	4.5	4.3	4.3	4.4	4.5	4.3	4.3	4.3	5.0	4.9	5.0	4.8	4.5	4.5	5.0	4.9	4.9	5.0	4.9
30. *	4.5	4.5	4.4	4.3	4.4	4.5	4.3	4.3	4.3	5.0	5.0	5.0	4.8	4.5	4.5	4.7	4.9	4.9	5.1	4.9
40. *	4.6	4.6	4.4	4.3	4.3	4.4	4.3	4.3	4.3	5.0	5.0	5.0	4.8	4.5	4.5	5.0	4.9	4.9	5.1	4.9
50. *	4.6	4.6	4.4	4.3	4.3	4.4	4.3	4.3	4.3	5.0	5.0	5.0	4.8	4.5	4.4	5.0	4.8	4.8	5.1	5.0
60. *	4.6	4.6	4.4	4.3	4.3	4.3	4.3	4.3	4.4	5.1	5.1	5.1	4.8	4.7	4.5	5.1	4.8	4.6	5.4	5.1
70. *	4.7	4.5	4.4	4.4	4.3	4.3	4.4	4.5	4.5	5.1	5.0	5.0	4.8	4.5	4.3	5.2	4.9	4.5	5.6	5.1
80. *	5.0	4.6	4.5	4.9	4.4	4.3	5.0	4.9	5.0	4.8	4.7	4.6	4.6	4.3	4.3	4.9	4.6	4.5	5.3	4.9
90. *	5.3	4.9	4.6	5.0	4.6	4.5	5.2	5.1	5.1	4.4	4.3	4.4	4.3	4.3	4.3	4.6	4.6	4.5	5.0	4.7
100. *	5.2	4.8	4.7	4.9	4.6	4.6	5.0	5.0	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.5	4.8	4.5
110. *	4.9	4.8	4.5	4.9	4.7	4.5	5.0	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.5	4.8	4.7
120. *	4.8	4.8	4.6	4.9	4.7	4.5	4.9	4.9	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.7	4.5	4.8	4.6
130. *	4.9	4.8	4.6	5.0	4.7	4.5	4.9	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7	4.6	4.8	4.6
140. *	5.0	4.8	4.8	4.9	4.5	4.5	4.9	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6	4.6	4.9	4.6

150. *	5.0	4.8	4.8	4.7	4.5	4.5	5.0	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6	4.6	5.0	4.6
160. *	4.9	4.8	4.8	4.9	4.5	4.5	5.0	4.9	4.9	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6	4.6	4.8	4.5
170. *	5.0	4.8	4.9	4.9	4.7	4.6	5.1	4.9	4.9	4.4	4.3	4.3	4.5	4.5	4.5	4.6	4.6	4.6	4.9	4.4
180. *	4.9	4.6	4.5	5.0	4.8	4.7	5.3	4.9	4.9	4.5	4.3	4.3	4.6	4.6	4.6	4.4	4.4	4.4	4.8	4.3
190. *	4.9	4.5	4.5	5.0	4.8	4.6	5.3	5.1	4.9	4.5	4.5	4.3	4.7	4.6	4.6	4.4	4.3	4.3	4.8	4.3
200. *	4.8	4.5	4.4	5.0	4.8	4.6	5.2	5.1	4.9	4.6	4.5	4.3	4.7	4.6	4.6	4.5	4.3	4.3	4.6	4.3
210. *	4.8	4.5	4.5	5.0	4.8	4.7	5.0	5.1	4.9	4.6	4.5	4.3	4.6	4.6	4.5	4.5	4.3	4.3	4.5	4.3
220. *	4.8	4.5	4.5	4.9	4.8	4.8	5.0	4.9	5.0	4.6	4.5	4.3	4.6	4.6	4.5	4.5	4.4	4.3	4.4	4.3
230. *	4.8	4.5	4.5	5.0	4.8	4.8	4.9	4.9	5.0	4.6	4.4	4.3	4.7	4.6	4.5	4.5	4.4	4.3	4.3	4.3
240. *	4.7	4.5	4.5	5.1	4.8	4.8	5.0	5.1	5.1	4.7	4.3	4.3	4.7	4.6	4.5	4.5	4.4	4.3	4.3	4.3
250. *	4.7	4.5	4.3	4.9	4.8	4.6	4.9	4.9	5.2	4.8	4.4	4.4	4.7	4.6	4.5	4.5	4.4	4.3	4.5	4.4
260. *	4.5	4.3	4.3	4.8	4.6	4.4	4.8	4.6	4.7	5.0	4.7	4.9	4.9	4.6	4.5	4.7	4.4	4.3	4.7	4.7
270. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.4	4.4	5.2	5.0	5.1	5.1	4.8	4.5	5.0	4.6	4.3	5.0	5.1
280. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.3	4.3	5.0	5.0	5.1	5.2	4.8	4.7	5.1	4.6	4.6	5.2	5.1
290. *	4.3	4.3	4.3	4.6	4.6	4.4	4.6	4.3	4.3	5.0	4.8	5.0	4.9	4.9	4.8	5.1	4.6	4.6	5.0	5.0
300. *	4.3	4.3	4.3	4.6	4.5	4.5	4.5	4.3	4.3	4.9	5.0	5.0	4.8	4.8	4.8	5.0	4.6	4.6	4.9	4.9
310. *	4.3	4.3	4.3	4.6	4.5	4.5	4.4	4.3	4.3	4.9	5.0	5.0	4.8	4.8	4.8	5.0	4.8	4.6	4.9	5.0
320. *	4.3	4.3	4.3	4.6	4.3	4.5	4.3	4.3	4.3	5.0	4.9	4.9	4.9	4.8	4.8	4.9	4.7	4.5	4.9	4.9
330. *	4.3	4.3	4.3	4.5	4.4	4.5	4.3	4.3	4.3	4.8	4.8	4.9	5.0	4.7	4.8	4.9	4.6	4.6	4.9	4.9
340. *	4.3	4.3	4.3	4.4	4.5	4.5	4.3	4.3	4.3	4.8	4.8	4.9	4.8	4.6	4.6	4.8	4.6	4.6	4.9	4.9
350. *	4.3	4.3	4.3	4.3	4.5	4.4	4.3	4.3	4.3	4.9	4.8	4.9	4.8	4.5	4.6	4.7	4.6	4.6	4.9	4.9
360. *	4.3	4.3	4.3	4.3	4.4	4.4	4.3	4.3	4.3	4.8	4.8	4.9	4.8	4.5	4.5	4.8	4.6	4.7	4.9	4.9
MAX *	5.3	4.9	4.9	5.1	4.8	4.8	5.3	5.1	5.2	5.2	5.1	5.1	5.2	4.9	4.8	5.2	4.9	4.9	5.6	5.1
DEGR. *	90	90	170	240	180	220	180	90	100	270	60	60	280	290	290	70	10	10	70	60

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JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
RUN: INT #8 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr0820nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	* CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34

10. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.5	4.9	4.6	4.6
20. *	4.9	4.5	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.5	5.0	4.8	4.7
30. *	4.9	4.5	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.4	4.9	4.8	4.7
40. *	5.1	4.5	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.3	4.8	4.7	4.6
50. *	5.2	4.5	4.3	4.3	4.3	4.3	4.9	4.5	4.4	4.4	4.4	5.0	4.7	4.5
60. *	5.3	4.5	4.3	4.3	4.3	4.3	4.8	4.7	4.5	4.5	4.3	5.1	4.5	4.5
70. *	5.2	4.6	4.4	4.4	4.3	4.4	4.7	4.5	4.5	4.3	4.3	5.4	4.5	4.5
80. *	5.0	5.0	4.7	4.6	4.6	4.7	4.5	4.3	4.6	4.3	4.3	5.1	4.5	4.5
90. *	4.5	5.0	4.7	4.7	4.9	4.9	4.3	4.3	4.8	4.3	4.3	4.8	4.5	4.5
100. *	4.3	4.9	4.8	4.8	4.9	5.0	4.3	4.3	4.7	4.3	4.3	4.7	4.5	4.5
110. *	4.3	4.9	4.8	4.8	4.8	4.9	4.3	4.3	4.6	4.3	4.3	4.7	4.5	4.5
120. *	4.3	4.9	4.8	4.8	4.8	4.9	4.3	4.3	4.7	4.3	4.3	4.7	4.5	4.5
130. *	4.3	4.9	5.0	4.8	4.7	4.9	4.3	4.3	4.6	4.3	4.3	4.7	4.5	4.5
140. *	4.4	5.0	5.0	4.8	4.7	4.8	4.3	4.3	4.7	4.3	4.3	4.6	4.5	4.5
150. *	4.3	5.0	5.1	4.8	4.7	4.7	4.3	4.3	4.7	4.3	4.3	4.7	4.5	4.5
160. *	4.3	4.9	5.1	4.8	4.7	4.7	4.3	4.3	4.8	4.3	4.3	4.7	4.5	4.5
170. *	4.3	5.1	4.8	4.8	4.7	4.7	4.3	4.4	4.8	4.4	4.4	4.6	4.4	4.4
180. *	4.3	4.9	4.8	4.8	4.7	4.7	4.3	4.5	4.7	4.5	4.5	4.5	4.3	4.3
190. *	4.3	4.8	4.8	4.8	4.7	4.7	4.3	4.5	4.6	4.5	4.5	4.4	4.3	4.3
200. *	4.3	4.8	4.8	4.7	4.7	4.9	4.3	4.5	4.8	4.5	4.5	4.3	4.3	4.3
210. *	4.3	4.8	4.8	4.7	4.7	4.9	4.3	4.5	4.7	4.5	4.5	4.3	4.3	4.3
220. *	4.3	4.9	4.9	4.7	4.8	4.9	4.3	4.6	4.6	4.5	4.5	4.3	4.3	4.3
230. *	4.3	4.9	4.9	4.8	4.7	4.9	4.3	4.6	4.7	4.5	4.5	4.3	4.3	4.3
240. *	4.4	4.9	4.8	4.8	4.9	4.9	4.3	4.6	4.7	4.5	4.5	4.3	4.3	4.3
250. *	4.6	4.8	4.8	4.7	4.6	4.8	4.3	4.6	4.6	4.5	4.5	4.4	4.3	4.3
260. *	4.9	4.6	4.6	4.5	4.5	4.6	4.6	4.7	4.5	4.5	4.5	4.7	4.3	4.3
270. *	5.1	4.4	4.4	4.3	4.3	4.3	4.8	4.8	4.3	4.5	4.5	5.1	4.3	4.3
280. *	5.0	4.3	4.3	4.3	4.3	4.3	4.8	4.9	4.3	4.7	4.5	5.1	4.3	4.3
290. *	5.1	4.3	4.3	4.3	4.3	4.3	4.8	4.8	4.3	4.7	4.7	5.0	4.5	4.3
300. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.7	4.3	4.8	4.7	5.0	4.5	4.5
310. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.7	4.3	4.8	4.6	4.9	4.5	4.5
320. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.8	4.6	4.9	4.6	4.5
330. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.6	4.5	4.8	4.5	4.4
340. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.4	4.9	4.5	4.4
350. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.4	4.9	4.6	4.3
360. *	4.9	4.3	4.3	4.3	4.3	4.3	4.8	4.5	4.3	4.5	4.5	4.9	4.5	4.4
MAX *	5.3	5.1	5.1	4.8	4.9	5.0	4.9	4.9	4.8	4.8	4.7	5.4	4.8	4.7
DEGR. *	60	170	150	100	90	100	50	280	90	300	290	70	20	20

THE HIGHEST CONCENTRATION IS 5.6 PPM AT 70 DEGREES FROM REC19.

1

JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
RUN: INT #8 2020 NO BUILD FFQ
DATE: 09/07/2006 TIME: 09:52

POLLUTANT: 1 CO FILENAME: fr0820nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	90	90	170	240	180	220	180	90	100	270	60	60	280	290	290	70	10	10	70	60
1 *	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.3	.1	.0	.0	.1	.0	.3	.4	.4	.0	.3	.2	.0	.0	.0	.2	.1	.1	.2	.2
9 *	.1	.1	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0	.0	.1	.0	.0	.1	.0
10 *	.1	.0	.0	.0	.1	.0	.2	.1	.2	.1	.3	.3	.0	.0	.0	.2	.1	.1	.3	.1
11 *	.1	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0
12 *	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0
13 *	.0	.0	.1	.0	.1	.0	.1	.0	.0	.1	.0	.0	.1	.1	.1	.1	.2	.2	.1	.0
14 *	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.2	.1	.0	.0	.1	.0	.2	.3
15 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
16 *	.0	.0	.1	.3	.0	.1	.0	.0	.0	.2	.0	.0	.2	.1	.1	.0	.0	.0	.0	.1
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.0	.1	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0
23 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25 *	.1	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
RUN: INT #8 2020 NO BUILD FFQ
DATE: 09/07/2006 TIME: 09:52
POLLUTANT: 1 CO FILENAME: fr0820nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK #	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29	REC30	REC31	REC32	REC33	REC34
*	60	170	150	100	90	100	50	280	90	300	290	70	20	20
1 *	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.1	.0	.0	.1	.2	.3	.2	.0	.2	.0	.0	.2	.1	.1
9 *	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0
10 *	.1	.0	.0	.1	.1	.1	.2	.0	.1	.0	.0	.2	.1	.1
11 *	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.1	.1	.0	.0	.0	.0	.1	.0	.1	.1	.1	.1	.1
13 *	.0	.1	.1	.0	.0	.0	.0	.1	.0	.1	.1	.1	.1	.1
14 *	.2	.2	.2	.1	.0	.0	.0	.1	.0	.0	.0	.2	.0	.0
15 *	.2	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0
16 *	.2	.2	.2	.2	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	.0
22 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
23 *	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.1	.0	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

fRENTSCHLER FIELD ELE INT #8 SILVER LAND & MERCER HOV RAMP 2020 NB FFQ FR0820NB.
INT #8 2020 NO BUILD FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MERCER SB APP 3	5.3	3.7
2	R2 MERCER SB APP 25	4.9	3.4
3	R3 MERCER SB APP 50	4.9	3.4
4	R4 MERCER NB DEP 3	5.I	3.6
5	R5 MERCER NB DEP 25	4.8	3.3
6	R6 MERCER NB DEP 50	4.8	3.3
7	R7 SILVER WB APP 3	5.3	3.7
8	R8 SILVER WB APP 25	5.1	3.6
9	R9 SILVER WB APP 50	5.2	3.6
10	R10 SILVER EB DEP 3	5.2	3.6
11	R11 SILVER EB DEP 25	5.I	3.6
12	R12 SILVER EB DEP 50	5.1	3.6
13	R13 MERCER NB APP 3	5.2	3.6
14	R14 MERCER NB APP 25	4.9	3.4
15	R15 MERCER NB APP 50	4.8	3.3
16	R16 MERCER SB DEP 3	5.2	3.6
17	R17 MERCER SB DEP 25	4.9	3.4
18	R18 MERCER SB DEP 50	4.9	3.4
19	R19 SILVER EB APP 3	5.6	3.9
20	R20 SILVER EB APP 25	5.I	3.6
21	R21 SILVER EB APP 50	5.3	3.7
22	R22 SILVER WB DEP 3	5.1	3.6
23	R23 SILVER WB DEP 25	5.1	3.6
24	R24 SILVER WB DEP 50	4.8	3.3
25	R25 HOUSE 1	4.9	3.4
26	R26 HOUSE 2	5.0	3.5
27	R27 HOUSE 3	4.9	3.4
28	R28 HOUSE 4	4.9	3.4
29	R29 HOUSE 5	4.8	3.3
30	R30 HOUSE 6	4.8	3.3
31	R31 HOUSE 7	4.7	3.3
32	R32 HOUSE 8	5.4	3.8
33	R33 HOUSE 9	4.8	3.3
34	R34 HOUSE 10	4.7	3.3

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
DATE: 09/07/2006 TIME: 11:39
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MAIN ST SB APP	*	1067.	590.	908.	910.	*	358.	334.	AG	781.	40.0	11.8	.0	56.0		
2. F1BC MAIN ST SB APP	*	908.	910.	597.	1473.	*	643.	331.	AG	781.	40.0	11.8	.0	44.0		
3. F2AB MAIN ST NB DEP	*	1106.	610.	959.	902.	*	327.	333.	AG	776.	40.0	11.8	.0	44.0		
4. F2BC MAIN ST NB DEP	*	959.	902.	632.	1486.	*	669.	331.	AG	776.	40.0	11.8	.0	44.0		
5. F3AB WILL ST WB APP	*	1077.	616.	1355.	732.	*	301.	67.	AG	1187.	30.0	11.4	.0	44.0		
6. F3BC WILL ST WB APP	*	1355.	732.	1640.	986.	*	382.	48.	AG	1187.	30.0	11.4	.0	44.0		
7. F3CD WILL ST WB APP	*	1640.	986.	1766.	1037.	*	136.	68.	AG	1187.	30.0	11.4	.0	44.0		
8. F3DE WILL ST WB APP	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	1187.	30.0	11.4	.0	44.0		
9. F4AB WILL ST EB DEP	*	1090.	587.	1386.	717.	*	324.	66.	AG	720.	30.0	11.4	.0	44.0		
10. F4BC WILL ST EB DEP	*	1386.	717.	1645.	962.	*	356.	47.	AG	720.	30.0	11.4	.0	44.0		
11. F4CD WILL ST EB DEP	*	1645.	962.	1798.	1017.	*	163.	70.	AG	720.	30.0	11.4	.0	44.0		
12. F4DE WILL ST EB DEP	*	1798.	1017.	1955.	1024.	*	157.	87.	AG	720.	30.0	11.4	.0	44.0		
13. F5AB MAIN ST NB APP	*	1105.	611.	1223.	242.	*	387.	162.	AG	997.	40.0	11.8	.0	56.0		
14. F5BC MAIN ST NB APP	*	1223.	242.	1340.	-71.	*	335.	159.	AG	997.	40.0	11.8	.0	44.0		
15. F5CD MAIN ST NB APP	*	1340.	-71.	1479.	-315.	*	280.	150.	AG	997.	40.0	11.8	.0	44.0		
16. F6AB MAIN ST SB DEP	*	1067.	590.	1186.	225.	*	384.	162.	AG	1277.	40.0	11.8	.0	44.0		
17. F6BC MAIN ST SB DEP	*	1186.	225.	1311.	-109.	*	356.	160.	AG	1277.	40.0	11.8	.0	44.0		
18. F6CD MAIN ST SB DEP	*	1311.	-109.	1440.	-333.	*	259.	150.	AG	1277.	40.0	11.8	.0	44.0		
19. F7AB WILL ST EB APP	*	1089.	587.	258.	233.	*	902.	247.	AG	353.	30.0	11.4	.0	44.0		
20. F8AB WILL ST WB DEP	*	1076.	618.	246.	252.	*	907.	246.	AG	545.	30.0	11.4	.0	44.0		
21. Q1AB MAIN ST SB TR	*	1042.	631.	974.	767.	*	152.	334.	AG	122.	.0	100.0	.0	12.0	.85	7.7
22. Q2AB MAIN ST SB T	*	1051.	638.	982.	775.	*	153.	333.	AG	122.	.0	100.0	.0	12.0	.85	7.8
23. Q3AB MAIN ST SB L	*	1064.	643.	850.	1056.	*	465.	333.	AG	159.	.0	100.0	.0	12.0	1.56	23.6
24. Q4AB WILL ST WB TR	*	1140.	652.	1356.	740.	*	233.	68.	AG	96.	.0	100.0	.0	12.0	.93	11.9
25. Q5AB WILL ST WB LT	*	1145.	640.	1358.	731.	*	232.	67.	AG	96.	.0	100.0	.0	12.0	.93	11.8
26. Q8AB MAIN ST NB L	*	1115.	532.	1123.	506.	*	27.	163.	AG	157.	.0	100.0	.0	12.0	.61	1.3
27. Q9AB MAIN ST EB TR	*	1042.	559.	749.	436.	*	318.	247.	AG	149.	.0	100.0	.0	12.0	1.11	16.2
28. Q10AB MAIN ST EB LT	*	1038.	568.	755.	450.	*	307.	247.	AG	149.	.0	100.0	.0	12.0	1.10	15.6
29. FQ6AB MAIN ST NB TR	*	1136.	540.	1223.	242.	*	310.	164.	AG	121.	99.0	100.0	.0	12.0		

30. FQ6BC MAIN ST NB TR *	1223.	242.	1340.	-71. *	334.	160. AG	121.	99.0	100.0	.0	12.0
31. FQ6CD MAIN ST NB TR *	1340.	-71.	1479.	-315. *	281.	150. AG	121.	99.0	100.0	.0	12.0
32. FQ7AB MAIN ST NB T *	1124.	536.	1223.	242. *	310.	161. AG	121.	99.0	100.0	.0	12.0
33. FQ7BC MAIN ST NB T *	1223.	242.	1340.	-71. *	334.	160. AG	121.	99.0	100.0	.0	12.0
34. FQ7CD MAIN ST NB T *	1340.	-71.	1479.	-315. *	281.	150. AG	121.	99.0	100.0	.0	12.0

1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
DATE: 09/07/2006 TIME: 11:39
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION *	CYCLE LENGTH (SEC)	RED TIME (SEC)	LOST TIME (SEC)	CLEARANCE VOL (VPH)	APPROACH FLOW RATE (VPH)	SATURATION EM FAC (gm/hr)	IDLE TYPE	SIGNAL RATE	ARRIVAL LANES	NO.OF
21. Q1AB MAIN ST SB TR *	100	70	3.0	340	1600	65.21	1	3	1	
22. Q2AB MAIN ST SB T *	100	70	3.0	341	1600	65.21	1	3	1	
23. Q3AB MAIN ST SB L *	100	91	3.0	100	1600	65.21	1	3	1	
24. Q4AB WILL ST WB TR *	100	55	3.0	594	1600	65.21	1	3	1	
25. Q5AB WILL ST WB LT *	100	55	3.0	593	1600	65.21	1	3	1	
26. Q8AB MAIN ST NB L *	100	90	3.0	49	1600	65.21	1	3	1	
27. Q9AB MAIN ST EB TR *	100	85	3.0	177	1600	65.21	1	3	1	
28. Q10AB MAIN ST EB LT *	100	85	3.0	176	1600	65.21	1	3	1	

RECEPTOR LOCATIONS

RECEPTOR *	COORDINATES (FT) X	Y	Z *
1. R1 MAIN ST SB APP 3 *	1010.9	631.3	6.0 *
2. R2 MAIN ST SB APP 25 *	980.8	695.3	6.0 *
3. R3 MAIN ST SB APP 50 *	940.3	774.3	6.0 *
4. R4 MAIN ST NB DEP 3 *	1108.1	681.6	6.0 *
5. R5 MAIN ST NB DEP 25 *	1081.8	737.7	6.0 *
6. R6 MAIN ST NB DEP 50 *	1036.1	816.6	6.0 *
7. R7 WILL ST WB APP 3 *	1142.4	669.0	6.0 *
8. R8 WILL ST WB APP 25 *	1200.8	695.8	6.0 *
9. R9 WILL ST WB APP 50 *	1279.7	725.5	6.0 *
10. R10 WILL ST EB DEP *	1176.8	583.2	6.0 *
11. R11 WILL ST EB DEP 2 *	1233.9	614.1	6.0 *
12. R12 WILL ST EB DEP 5 *	1311.7	655.3	6.0 *
13. R13 MAIN ST NB APP 3 *	1158.5	538.6	6.0 *
14. R14 MAIN ST NB APP 2 *	1180.2	468.9	6.0 *

15. R15 MAIN ST NB APP 5 * 1209.2 390.0 6.0 *
16. R16 MAIN ST SB DEP 3 * 1067.7 512.3 6.0 *
17. R17 MAIN ST SB DEP 2 * 1089.4 439.1 6.0 *
18. R18 MAIN ST SB DEP 5 * 1113.4 368.2 6.0 *
19. R19 WILL ST EB APP 3 * 1040.7 537.1 6.0 *
20. R20 WILL ST EB APP 2 * 977.7 511.2 6.0 *
21. R21 WILL ST EB APP 5 * 896.5 478.0 6.0 *
22. R22 WILL ST WB DEP 3 * 1008.6 611.9 6.0 *
23. R23 WILL ST WB DEP 2 * 938.9 582.5 6.0 *
24. R24 WILL ST WB DEP 5 * 865.7 550.5 6.0 *
25. R25 HOUSE 1 * 932.0 638.2 6.0 *
26. R26 HOUSE 2 * 720.4 650.7 6.0 *
27. R27 HOUSE 3 * 846.2 870.3 6.0 *
28. R28 HOUSE 4 * 1051.0 430.0 6.0 *
29. R29 HOUSE 5 * 1060.1 929.8 6.0 *

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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	5.6	5.7	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.0	5.2	4.8	4.8	4.5	5.6	5.5	5.7	5.5	5.7
20. *	5.5	5.5	4.9	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.1	5.1	4.9	4.7	4.6	5.5	5.6	5.7	5.2	5.7
30. *	5.5	5.5	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.1	5.2	5.4	4.9	4.6	4.4	5.5	5.7	5.7	5.4	5.7
40. *	5.4	5.4	5.0	4.3	4.3	4.3	4.4	4.3	4.4	5.1	5.3	5.2	5.0	4.6	4.4	5.7	5.5	5.4	5.6	5.7
50. *	5.4	5.4	5.0	4.3	4.3	4.3	4.5	4.5	4.7	5.2	5.1	5.1	4.7	4.4	4.3	5.7	5.3	5.2	5.7	6.1
60. *	5.6	5.4	5.0	4.4	4.4	4.3	5.0	4.9	5.0	4.8	4.8	4.7	4.5	4.3	4.3	5.4	5.1	5.2	5.7	5.6
70. *	5.9	5.5	5.0	4.8	4.4	4.3	5.5	5.3	5.1	4.4	4.4	4.5	4.3	4.3	4.3	5.3	5.2	5.2	5.2	5.0
80. *	5.9	5.7	5.2	5.2	4.5	4.4	5.8	5.6	5.3	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.2	5.2	5.0	4.6
90. *	5.7	6.0	5.3	5.1	4.6	4.4	5.7	5.6	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.1	5.1	5.2	4.8
100. *	5.3	6.0	5.4	5.3	4.8	4.4	5.6	5.5	5.6	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.3	5.2	5.2	4.8
110. *	5.2	5.8	5.8	5.1	4.8	4.4	5.5	5.5	5.5	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.3	5.3	5.2	4.8

120. *	5.3	5.7	5.9	4.9	4.8	4.7	5.5	5.5	5.5	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	5.4	5.1	4.8
130. *	5.5	5.5	5.8	4.9	4.8	4.7	5.4	5.3	5.4	4.3	4.3	4.3	4.3	4.3	4.3	5.7	5.5	5.4	5.3	4.8
140. *	5.6	5.6	5.9	4.9	4.8	4.5	5.4	5.3	5.4	4.3	4.3	4.3	4.4	4.4	4.3	5.6	5.8	5.8	5.2	5.1
150. *	5.8	5.5	5.5	4.9	4.8	4.7	5.4	5.3	5.4	4.3	4.3	4.3	4.6	4.5	4.5	5.9	5.7	5.6	5.4	4.6
160. *	5.5	5.1	5.2	5.6	5.3	5.2	5.6	5.3	5.5	4.6	4.3	4.3	5.5	5.2	5.1	5.5	5.4	5.3	4.9	4.4
170. *	4.9	4.8	4.8	5.6	5.4	5.5	6.0	5.6	5.4	5.2	4.5	4.3	5.8	5.8	5.4	4.8	4.7	4.6	4.5	4.3
180. *	5.0	4.6	4.6	5.7	5.2	5.4	6.0	5.8	5.6	5.3	4.9	4.5	6.0	5.8	5.7	4.4	4.4	4.4	4.3	4.3
190. *	5.0	4.6	4.6	5.4	5.2	5.5	5.7	5.9	6.0	5.2	4.8	4.6	5.8	5.9	5.6	4.4	4.3	4.3	4.3	4.3
200. *	5.0	4.6	4.6	5.4	5.6	5.6	5.6	6.1	5.9	5.2	4.9	4.7	5.7	5.7	5.6	4.3	4.3	4.3	4.3	4.3
210. *	5.0	4.7	4.4	5.4	5.6	5.5	5.4	5.9	6.0	5.2	4.9	4.7	5.5	5.5	5.5	4.3	4.3	4.3	4.3	4.3
220. *	5.0	4.7	4.4	5.2	5.5	5.3	5.7	5.9	5.8	5.1	4.9	4.7	5.6	5.5	5.4	4.3	4.3	4.3	4.3	4.3
230. *	4.9	4.4	4.3	5.6	5.5	5.3	5.7	6.0	6.1	5.1	4.9	4.8	5.5	5.4	5.3	4.3	4.3	4.3	4.3	4.3
240. *	4.8	4.4	4.3	5.6	5.2	5.0	5.5	5.5	5.9	5.0	5.0	4.8	5.6	5.4	5.3	4.3	4.3	4.3	4.7	4.7
250. *	4.4	4.3	4.3	5.2	5.1	5.0	5.6	5.3	5.5	5.2	5.0	5.3	6.1	5.5	5.4	4.7	4.3	4.3	5.2	5.1
260. *	4.3	4.3	4.3	5.1	5.1	5.0	5.1	4.9	4.9	5.4	5.2	5.3	5.9	5.7	5.3	4.9	4.4	4.3	5.5	5.5
270. *	4.3	4.3	4.3	5.2	5.1	5.0	5.1	4.8	4.8	5.3	5.2	5.5	5.9	5.8	5.3	4.9	4.7	4.3	5.6	5.6
280. *	4.3	4.3	4.3	5.2	5.2	5.0	5.0	4.8	4.7	5.2	5.3	5.4	5.4	5.9	5.6	4.9	4.7	4.5	5.4	5.6
290. *	4.3	4.3	4.3	5.2	5.2	5.0	5.1	4.6	4.6	5.5	5.6	5.4	5.5	5.8	5.7	4.9	4.7	4.6	5.2	5.2
300. *	4.3	4.3	4.3	5.3	5.0	5.1	5.0	4.6	4.6	5.5	5.5	5.4	5.2	5.9	5.7	4.9	4.6	4.6	5.2	5.2
310. *	4.3	4.3	4.3	5.2	5.1	5.1	4.9	4.7	4.5	5.6	5.3	5.3	5.6	5.8	5.9	4.9	4.6	4.5	5.2	5.2
320. *	4.4	4.4	4.5	5.1	5.1	5.2	5.0	4.6	4.4	5.5	5.4	5.1	5.8	6.1	5.7	4.9	4.7	4.6	5.2	5.2
330. *	4.9	4.8	4.8	4.9	4.8	4.8	4.7	4.4	4.3	5.3	5.1	5.1	5.7	6.1	5.8	5.4	4.9	4.9	5.4	5.2
340. *	5.4	5.1	5.2	4.5	4.5	4.5	4.3	4.3	4.3	4.9	5.0	5.1	5.2	5.3	5.4	5.9	5.6	5.1	5.9	5.5
350. *	5.6	5.5	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.0	5.0	4.8	4.8	4.8	5.7	5.4	5.4	5.9	5.6
360. *	5.7	5.5	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.9	5.0	5.0	4.9	4.8	4.6	5.7	5.4	5.6	5.7	5.7
MAX *	5.9	6.0	5.9	5.7	5.6	5.6	6.0	6.1	6.1	5.6	5.6	5.5	6.1	6.1	5.9	5.9	5.8	5.8	5.9	6.1
DEGR. *	70	90	120	180	200	200	170	200	230	310	290	270	250	320	310	150	140	140	340	50

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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND * CONCENTRATION

ANGLE (DEGR)	(PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
10.	5.4	5.4	4.7	4.6	4.7	4.5	4.7	5.0	4.3
20.	5.6	5.4	4.8	4.6	4.9	4.5	4.8	4.9	4.3
30.	5.8	5.3	4.8	4.6	4.8	4.5	4.8	5.0	4.3
40.	5.8	5.2	4.8	4.8	4.8	4.4	4.7	5.5	4.3
50.	5.8	5.0	4.9	4.9	4.8	4.5	4.8	5.3	4.3
60.	5.7	5.5	5.1	4.9	4.9	4.6	4.8	5.0	4.3
70.	5.1	5.6	5.3	5.0	5.0	4.6	4.7	5.0	4.3
80.	4.6	5.6	5.3	5.3	5.3	4.7	4.8	5.0	4.3
90.	4.7	5.3	5.3	5.2	5.2	4.5	4.9	5.0	4.4
100.	4.7	5.1	5.2	5.3	5.0	4.4	4.8	5.0	4.4
110.	4.7	5.3	5.4	5.4	4.9	4.8	4.9	5.0	4.4
120.	4.7	5.4	5.5	5.4	5.0	4.8	4.9	5.0	4.4
130.	4.6	5.4	5.5	5.2	5.2	4.7	5.1	5.1	4.4
140.	4.5	5.6	5.7	5.3	5.2	4.6	5.0	5.3	4.4
150.	4.4	5.7	5.3	5.1	5.1	4.6	4.6	4.9	4.5
160.	4.3	5.3	5.0	5.0	4.8	4.6	4.6	4.5	4.6
170.	4.3	5.1	5.0	5.0	4.7	4.4	4.5	4.3	4.7
180.	4.3	5.0	5.0	5.0	4.7	4.4	4.5	4.3	4.9
190.	4.3	5.0	5.0	5.0	4.7	4.4	4.3	4.3	4.8
200.	4.3	5.0	5.0	5.0	4.7	4.4	4.3	4.3	5.0
210.	4.3	5.1	5.1	5.1	4.7	4.4	4.3	4.3	4.6
220.	4.3	5.2	5.1	5.1	4.7	4.4	4.3	4.3	4.6
230.	4.3	5.2	5.2	5.0	4.6	4.3	4.3	4.3	4.6
240.	4.5	5.0	5.0	4.9	4.4	4.3	4.3	4.3	4.6
250.	5.0	4.8	4.5	4.5	4.3	4.3	4.3	4.3	4.6
260.	5.3	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.6
270.	5.5	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
280.	5.5	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
290.	5.3	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
300.	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.7
310.	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6
320.	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.5
330.	5.2	4.7	4.3	4.3	4.3	4.3	4.4	4.6	4.4
340.	5.2	5.1	4.5	4.3	4.5	4.3	4.6	5.0	4.3
350.	5.4	5.4	4.7	4.5	4.7	4.3	4.6	5.3	4.3
360.	5.4	5.3	4.6	4.6	4.7	4.5	4.7	4.9	4.3
MAX	5.8	5.7	5.7	5.4	5.3	4.8	5.1	5.5	5.0
DEGR.	30	150	140	110	80	110	130	40	200

THE HIGHEST CONCENTRATION IS 6.1 PPM AT 200 DEGREES FROM REC8 .
1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
DATE: 09/07/2006 TIME: 11:39
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1 70	REC2 90	REC3 120	REC4 180	REC5 200	REC6 200	REC7 170	REC8 200	REC9 230	REC10 310	REC11 290	REC12 270	REC13 250	REC14 320	REC15 310	REC16 150	REC17 140	REC18 140	REC19 340	REC20 50
1 *	.3	.3	.4	.0	.2	.2	.0	.0	.0	.2	.1	.1	.0	.1	.0	.0	.0	.0	.2	.1
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
3 *	.2	.2	.2	.2	.3	.3	.0	.0	.0	.2	.1	.1	.0	.1	.0	.0	.0	.0	.1	.1
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
5 *	.3	.2	.1	.3	.0	.0	.4	.5	.7	.2	.3	.3	.0	.0	.0	.0	.0	.0	.0	.2
6 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.1	.1	.1	.1	.0	.0	.2	.2	.2	.2	.3	.4	.0	.0	.0	.0	.0	.0	.0	.1
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.3	.0	.0	.3	.2	.1	.1	.0	.0	.4	.5	.5	.2	.2	.2	.0	.1
14 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.3	.1	.0	.1	.2	.1	.0	.0	.0	.3	.2	.3	.8	.7	.7	.0	.1
17 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2
20 *	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
21 *	.2	.3	.3	.0	.1	.1	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0
22 *	.1	.2	.2	.0	.1	.2	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0
23 *	.1	.2	.3	.0	.2	.2	.0	.0	.0	.2	.1	.1	.0	.1	.0	.0	.0	.0	.2	.0
24 *	.1	.1	.0	.0	.0	.0	.2	.3	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
25 *	.1	.1	.0	.0	.0	.0	.1	.2	.2	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
27 *	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3	.3
28 *	.0	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	.2
29 *	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	.3	.3	.1	.1	.1	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0
31 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
32 *	.0	.0	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2	.3	.1	.1	.1	.0	.0
33 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0

34 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
RUN: INT #27 2008 EXISTING FFQ
DATE: 09/07/2006 TIME: 11:39
POLLUTANT: 1 CO FILENAME: fr2708ex.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
	30	150	140	110	80	110	130	40	200
1 *	.1	.0	.0	.0	.1	.0	.2	.0	.1
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.1	.0	.0	.0	.1	.0	.1	.0	.1
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.2	.0	.1	.1	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.0	.0	.0	.0	.1	.0	.0	.1	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.1	.1	.1	.0	.1	.0	.2	.0
14 *	.0	.1	.1	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.4	.2	.1	.0	.1	.0	.3	.0
17 *	.0	.1	.1	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.2	.1	.1	.1	.0	.0	.0	.0	.0
20 *	.1	.2	.2	.2	.0	.1	.0	.0	.0
21 *	.1	.0	.0	.0	.1	.0	.1	.0	.1
22 *	.1	.0	.0	.0	.1	.0	.1	.0	.1
23 *	.1	.0	.0	.0	.1	.0	.2	.0	.1
24 *	.0	.0	.0	.0	.1	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.1	.0	.0	.1	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
27 *	.4	.1	.2	.2	.0	.1	.0	.0	.1
28 *	.3	.1	.2	.2	.0	.1	.0	.0	.1
29 *	.0	.1	.1	.1	.0	.0	.0	.1	.0
30 *	.0	.0	.0	.0	.0	.0	.0	.0	.0

31	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
32	*	.0	.1	.1	.1	.0	.0	.0	.1	.0
33	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
34	*	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2008 Existing FFQ FR2
INT #27 2008 EXISTING FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MAIN ST SB APP 3	5.9	4.1
2	R2 MAIN ST SB APP 25	6.0	4.2
3	R3 MAIN ST SB APP 50	5.9	4.1
4	R4 MAIN ST NB DEP 3	5.7	4.0
5	R5 MAIN ST NB DEP 25	5.6	3.9
6	R6 MAIN ST NB DEP 50	5.6	3.9
7	R7 WILL ST WB APP 3	6.0	4.2
8	R8 WILL ST WB APP 25	6.1	4.3
9	R9 WILL ST WB APP 50	6.1	4.3
10	R10 WILL ST EB DEP	5.6	3.9
11	R11 WILL ST EB DEP 2	5.6	3.9
12	R12 WILL ST EB DEP 5	5.5	3.8
13	R13 MAIN ST NB APP 3	6.1	4.3
14	R14 MAIN ST NB APP 2	6.1	4.3
15	R15 MAIN ST NB APP 5	5.9	4.1
16	R16 MAIN ST SB DEP 3	5.9	4.1
17	R17 MAIN ST SB DEP 2	5.8	4.1
18	R18 MAIN ST SB DEP 5	5.8	4.1
19	R19 WILL ST EB APP 3	5.9	4.1
20	R20 WILL ST EB APP 2	6.1	4.3
21	R21 WILL ST EB APP 5	5.8	4.1
22	R22 WILL ST WB DEP 3	5.7	4.0
23	R23 WILL ST WB DEP 2	5.7	4.0
24	R24 WILL ST WB DEP 5	5.4	3.8
25	R25 HOUSE 1	5.3	3.7
26	R26 HOUSE 2	4.8	3.3
27	R27 HOUSE 3	5.1	3.6
28	R28 HOUSE 4	5.5	3.8
29	R29 HOUSE 5	5.0	3.5

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
RUN: INT #27 2020 Build FFQ
DATE: 09/07/2006 TIME: 11:45
POLLUTANT: 1 CO FILENAME: fr2720bd.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MAIN ST SB APP	*	1067.	590.	908.	910.	*	358.	334.	AG	943.	30.0	8.0	.0	56.0		
2. F1BC MAIN ST SB APP	*	908.	910.	597.	1473.	*	643.	331.	AG	943.	30.0	8.0	.0	44.0		
3. F2AB MAIN ST NB DEP	*	1106.	610.	959.	902.	*	327.	333.	AG	994.	30.0	8.0	.0	44.0		
4. F2BC MAIN ST NB DEP	*	959.	902.	632.	1486.	*	669.	331.	AG	994.	30.0	8.0	.0	44.0		
5. F3AB WILL ST WB APP	*	1077.	616.	1355.	732.	*	301.	67.	AG	2158.	30.0	8.0	.0	68.0		
6. F3BC WILL ST WB APP	*	1355.	732.	1640.	986.	*	382.	48.	AG	2158.	30.0	8.0	.0	44.0		
7. F3CD WILL ST WB APP	*	1640.	986.	1766.	1037.	*	136.	68.	AG	2158.	30.0	8.0	.0	44.0		
8. F3DE WILL ST WB APP	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	2158.	30.0	8.0	.0	44.0		
9. F4AB WILL ST EB DEP	*	1090.	587.	1386.	717.	*	324.	66.	AG	1393.	30.0	8.0	.0	44.0		
10. F4BC WILL ST EB DEP	*	1386.	717.	1645.	962.	*	356.	47.	AG	1393.	30.0	8.0	.0	44.0		
11. F4CD WILL ST EB DEP	*	1645.	962.	1798.	1017.	*	163.	70.	AG	1393.	30.0	8.0	.0	44.0		
12. F4DE WILL ST EB DEP	*	1798.	1017.	1955.	1024.	*	157.	87.	AG	1393.	30.0	8.0	.0	44.0		
13. F5AB MAIN ST NB APP	*	1105.	611.	1223.	242.	*	387.	162.	AG	1032.	40.0	8.3	.0	68.0		
14. F5BC MAIN ST NB APP	*	1223.	242.	1340.	-71.	*	335.	159.	AG	1032.	40.0	8.3	.0	44.0		
15. F5CD MAIN ST NB APP	*	1340.	-71.	1479.	-315.	*	280.	150.	AG	1032.	40.0	8.3	.0	44.0		
16. F6AB MAIN ST SB DEP	*	1067.	590.	1186.	225.	*	384.	162.	AG	1099.	40.0	8.3	.0	44.0		
17. F6BC MAIN ST SB DEP	*	1186.	225.	1311.	-109.	*	356.	160.	AG	1099.	40.0	8.3	.0	44.0		
18. F6CD MAIN ST SB DEP	*	1311.	-109.	1440.	-333.	*	259.	150.	AG	1099.	40.0	8.3	.0	44.0		
19. F7AB WILL ST EB APP	*	1089.	587.	258.	233.	*	902.	247.	AG	834.	30.0	8.0	.0	68.0		
20. F8AB WILL ST WB DEP	*	1076.	618.	246.	252.	*	907.	246.	AG	1481.	30.0	8.0	.0	44.0		
21. Q1AB MAIN ST SB TR	*	1042.	631.	992.	732.	*	113.	334.	AG	76.	.0	100.0	.0	12.0	.74	5.7
22. Q2AB MAIN ST SB T	*	1051.	638.	1000.	739.	*	113.	333.	AG	76.	.0	100.0	.0	12.0	.74	5.7
23. Q3AB MAIN ST SB L	*	1064.	643.	671.	1405.	*	857.	333.	AG	95.	.0	100.0	.0	12.0	1.34	43.5
24. Q4AB WILL ST WB R	*	1140.	652.	1205.	678.	*	70.	68.	AG	44.	.0	100.0	.0	12.0	.41	3.5
25. Q7AB WILL ST WB L	*	1124.	536.	1188.	337.	*	210.	162.	AG	78.	.0	100.0	.0	12.0	.96	10.7
26. Q8AB MAIN ST NB R	*	1115.	532.	1148.	426.	*	111.	163.	AG	60.	.0	100.0	.0	12.0	.64	5.7
27. Q9AB MAIN ST NB T	*	1042.	559.	938.	516.	*	112.	247.	AG	85.	.0	100.0	.0	12.0	.81	5.7
28. Q10AB MAIN ST NB T	*	1038.	568.	934.	525.	*	113.	247.	AG	85.	.0	100.0	.0	12.0	.81	5.7
29. Q11AB WILL ST NB L	*	1146.	634.	1176.	647.	*	33.	67.	AG	104.	.0	100.0	.0	12.0	.76	1.7

30. Q12AB WILL ST EB R	*	1148.	627.	1189.	645.	*	44.	67.	AG	104.	.0	100.0	.0 12.0	.86 2.3
31. Q13AB WILL ST EB T	*	1036.	573.	922.	525.	*	124.	247.	AG	77.	.0	100.0	.0 12.0	.79 6.3
32. Q14AB WILL ST EB T	*	1034.	578.	231.	235.	*	873.	247.	AG	89.	.0	100.0	.0 12.0	1.23 44.3
33. Q15AB WILL ST EB L	*	1105.	530.	1121.	482.	*	51.	162.	AG	103.	.0	100.0	.0 12.0	.85 2.6
34. FQ5AB WILL ST WB T	*	1145.	640.	1355.	732.	*	229.	66.	AG	64.	99.0	100.0	.0 12.0	
35. FQ5BC WILL ST WB T	*	1355.	732.	1640.	986.	*	382.	48.	AG	64.	99.0	100.0	.0 12.0	
36. FQ5CD WILL ST WB T	*	1640.	986.	1766.	1037.	*	136.	68.	AG	64.	99.0	100.0	.0 12.0	
37. FQ5DE WILL ST WB T	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	64.	99.0	100.0	.0 12.0	
38. FQ6AB WILL ST WB T	*	1136.	540.	1355.	732.	*	291.	49.	AG	64.	99.0	100.0	.0 12.0	
39. FQ6BC WILL ST WB T	*	1355.	732.	1640.	986.	*	382.	48.	AG	64.	99.0	100.0	.0 12.0	
40. FQ6CD WILL ST WB T	*	1640.	986.	1766.	1037.	*	136.	68.	AG	64.	99.0	100.0	.0 12.0	
41. FQ6DE WILL ST WB T	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	64.	99.0	100.0	.0 12.0	

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PAGE 2

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
RUN: INT #27 2020 Build FFQ
DATE: 09/07/2006 TIME: 11:45
POLLUTANT: 1 CO FILENAME: fr2720bd.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	*	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
21. Q1AB MAIN ST SB TR	*	90	59	3.0	340	1600	43.08	1	3	1
22. Q2AB MAIN ST SB T	*	90	59	3.0	341	1600	43.08	1	3	1
23. Q3AB MAIN ST SB L	*	90	74	3.0	262	1600	43.08	1	3	1
24. Q4AB WILL ST WB R	*	90	34	3.0	374	1600	43.08	1	3	1
25. Q7AB WILL ST WB L	*	90	61	3.0	411	1600	43.08	1	3	1
26. Q8AB MAIN ST NB R	*	90	47	3.0	433	1600	43.08	1	3	1
27. Q9AB MAIN ST NB T	*	90	66	3.0	272	1600	43.08	1	3	1
28. Q10AB MAIN ST NB T	*	90	66	3.0	273	1600	43.08	1	3	1
29. Q11AB WILL ST NB L	*	90	81	3.0	54	1600	43.08	1	3	1
30. Q12AB WILL ST EB R	*	90	81	3.0	61	1600	43.08	1	3	1
31. Q13AB WILL ST EB T	*	90	60	3.0	349	1600	43.08	1	3	1
32. Q14AB WILL ST EB T	*	90	69	3.0	349	1600	43.08	1	3	1
33. Q15AB WILL ST EB L	*	90	80	3.0	75	1600	43.08	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (FT) X	Y	Z	*
1. R1 MAIN ST SB APP 3	*	1010.9	631.3	6.0	*
2. R2 MAIN ST SB APP 25	*	980.8	695.3	6.0	*

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  3. R3 MAIN ST SB APP 50 *     940.3    774.3     6.0  *
  4. R4 MAIN ST NB DEP  3 *    1108.1    681.6     6.0  *
  5. R5 MAIN ST NB DEP 25 *    1081.8    737.7     6.0  *
  6. R6 MAIN ST NB DEP 50 *    1036.1    816.6     6.0  *
  7. R7 WILL ST WB APP  3 *    1142.4    679.0     6.0  *
  8. R8 WILL ST WB APP 25 *    1200.8    705.8     6.0  *
  9. R9 WILL ST WB APP 50 *    1279.7    735.5     6.0  *
 10. R10 WILL ST EB DEP  *     1176.8    583.2     6.0  *
 11. R11 WILL ST EB DEP 2 *    1233.9    614.1     6.0  *
 12. R12 WILL ST EB DEP 5 *    1311.7    655.3     6.0  *
 13. R13 MAIN ST NB APP 3 *    1163.5    538.6     6.0  *
 14. R14 MAIN ST NB APP 2 *    1190.2    468.9     6.0  *
 15. R15 MAIN ST NB APP 5 *    1214.2    390.0     6.0  *
 16. R16 MAIN ST SB DEP 3 *    1067.7    512.3     6.0  *
 17. R17 MAIN ST SB DEP 2 *    1089.4    439.1     6.0  *
 18. R18 MAIN ST SB DEP 5 *    1113.4    368.2     6.0  *
 19. R19 WILL ST EB APP 3 *    1035.7    522.1     6.0  *
 20. R20 WILL ST EB APP 2 *     972.8    496.2     6.0  *
 21. R21 WILL ST EB APP 5 *     891.5    463.0     6.0  *
 22. R22 WILL ST WB DEP 3 *    1008.6    611.9     6.0  *
 23. R23 WILL ST WB DEP 2 *     938.9    582.5     6.0  *
 24. R24 WILL ST WB DEP 5 *     865.7    550.5     6.0  *
 25. R25 HOUSE 1        *     932.0    638.2     6.0  *
 26. R26 HOUSE 2        *     720.4    650.7     6.0  *
 27. R27 HOUSE 3        *     846.2    870.3     6.0  *
 28. R28 HOUSE 4        *    1051.0    430.0     6.0  *
 29. R29 HOUSE 5        *    1060.1    929.8     6.0  *
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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
     RUN: INT #27 2020 Build FFQ
POLLUTANT:  1      CO        FILENAME:  fr2720bd.O71

 MODEL RESULTS
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 REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
          THE MAXIMUM CONCENTRATION, ONLY THE FIRST
          ANGLE, OF THE ANGLES WITH SAME MAXIMUM
          CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE:  10.-  0.

WIND  * CONCENTRATION
ANGLE *     (PPM)
(DEGR)*  REC1   REC2   REC3   REC4   REC5   REC6   REC7   REC8   REC9   REC10  REC11  REC12  REC13  REC14  REC15  REC16  REC17  REC18  REC19  REC20
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10. *	5.3	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.4	5.4	5.2	4.7	4.5	5.4	5.4	5.3	5.3	5.5
20. *	5.1	5.0	4.8	4.3	4.3	4.3	4.4	4.3	4.4	5.2	5.5	5.4	5.1	4.7	4.6	5.2	5.5	5.4	5.0	5.5
30. *	5.0	4.9	4.7	4.3	4.3	4.3	4.4	4.4	4.4	5.4	5.7	5.7	5.2	4.8	4.5	5.4	5.5	5.2	5.4	5.5
40. *	5.0	4.9	4.7	4.3	4.3	4.3	4.4	4.4	4.5	5.7	6.0	5.7	5.1	4.7	4.5	5.5	5.6	5.3	5.3	5.5
50. *	5.0	5.0	4.7	4.4	4.3	4.3	4.6	4.5	4.9	6.0	5.6	5.6	5.0	4.5	4.3	5.6	5.4	4.9	5.6	5.4
60. *	5.2	5.1	4.7	4.6	4.4	4.3	4.9	5.0	5.2	5.3	5.0	4.9	4.6	4.3	4.3	5.5	5.0	4.9	5.4	5.4
70. *	5.7	5.2	4.8	4.9	4.5	4.4	5.4	5.2	5.4	4.8	4.5	4.5	4.3	4.3	4.3	5.2	5.0	4.9	5.0	4.9
80. *	5.9	5.3	4.9	5.2	4.6	4.5	5.5	5.4	5.4	4.7	4.3	4.4	4.3	4.3	4.3	5.1	5.0	4.9	4.7	4.5
90. *	5.4	5.3	4.9	5.2	4.8	4.5	5.5	5.5	5.4	4.6	4.3	4.3	4.3	4.3	4.3	5.1	5.0	4.9	4.8	4.5
100. *	5.4	5.4	4.9	5.3	4.7	4.6	5.5	5.3	5.3	4.6	4.3	4.3	4.3	4.3	4.3	5.1	4.9	4.9	4.9	4.6
110. *	5.5	5.4	5.2	5.4	4.8	4.5	5.4	5.3	5.3	4.5	4.3	4.3	4.3	4.3	4.3	5.1	4.9	4.9	4.9	4.6
120. *	5.3	5.5	5.3	5.5	4.8	4.6	5.5	5.2	5.2	4.5	4.3	4.3	4.3	4.3	4.3	5.2	4.9	4.8	4.9	4.5
130. *	5.3	5.5	5.3	5.3	4.7	4.6	5.5	5.2	5.2	4.5	4.3	4.3	4.3	4.3	4.3	5.1	5.0	5.0	4.8	4.5
140. *	5.3	5.2	5.4	5.2	4.7	4.6	5.5	5.2	5.2	4.5	4.3	4.3	4.4	4.3	4.3	5.1	5.0	5.0	4.7	4.6
150. *	5.2	5.0	4.9	5.0	4.8	4.8	5.5	5.2	5.2	4.5	4.3	4.3	4.4	4.4	4.4	5.3	5.0	5.0	4.8	4.4
160. *	5.5	4.9	4.7	5.4	5.0	4.9	5.6	5.2	5.2	4.6	4.3	4.3	4.7	4.6	4.6	5.0	4.8	4.8	4.5	4.3
170. *	5.2	5.0	4.5	5.5	5.1	5.2	5.9	5.2	5.2	4.9	4.3	4.3	5.1	4.8	4.7	4.5	4.6	4.5	4.3	4.3
180. *	5.1	5.0	4.6	5.5	5.2	5.3	5.6	5.5	5.2	5.0	4.5	4.3	5.0	5.0	4.9	4.4	4.4	4.4	4.3	4.3
190. *	5.1	4.7	4.6	5.4	5.1	5.3	5.3	5.7	5.3	5.0	4.5	4.3	5.2	4.8	4.8	4.3	4.3	4.3	4.3	4.3
200. *	5.1	4.7	4.6	5.4	5.1	5.4	5.3	5.7	5.5	5.2	4.6	4.5	5.1	4.9	4.7	4.3	4.3	4.3	4.3	4.3
210. *	5.3	4.7	4.6	5.3	5.3	5.0	5.5	5.7	5.7	5.3	4.6	4.5	5.0	4.9	4.9	4.3	4.3	4.3	4.3	4.3
220. *	5.1	4.7	4.6	5.6	5.3	5.0	5.7	5.9	5.6	5.3	4.7	4.5	5.1	4.8	4.8	4.3	4.3	4.3	4.3	4.3
230. *	5.2	4.7	4.4	5.5	5.3	4.9	5.7	5.6	5.7	5.0	4.7	4.7	5.0	4.9	4.8	4.3	4.3	4.3	4.3	4.4
240. *	4.9	4.6	4.3	5.5	5.2	4.7	5.6	5.5	5.6	5.1	5.2	5.1	5.0	4.9	4.8	4.4	4.3	4.3	4.6	4.6
250. *	4.7	4.3	4.3	5.3	5.0	4.7	5.5	5.2	5.3	5.2	5.6	5.6	5.4	4.8	4.9	4.6	4.3	4.3	4.9	4.9
260. *	4.4	4.3	4.3	5.0	4.9	4.7	5.2	4.9	4.9	5.6	5.7	5.8	5.4	5.2	4.9	4.8	4.6	4.4	5.2	5.1
270. *	4.3	4.3	4.3	4.9	4.7	4.7	5.0	4.7	4.7	5.3	5.9	5.8	5.7	5.2	5.1	4.9	4.6	4.6	5.4	5.1
280. *	4.3	4.3	4.3	4.9	4.7	4.8	5.0	4.7	4.7	5.3	5.8	5.6	5.3	5.3	5.1	5.1	4.6	4.6	5.4	5.1
290. *	4.3	4.3	4.3	5.1	4.7	4.8	4.8	4.7	4.6	5.3	5.9	5.7	5.2	5.3	5.2	5.1	4.6	4.6	5.2	4.8
300. *	4.3	4.3	4.3	5.0	4.8	5.0	4.8	4.6	4.5	5.4	5.8	5.5	5.3	5.2	5.1	5.1	4.6	4.6	5.2	5.0
310. *	4.3	4.3	4.3	4.9	5.0	5.1	4.7	4.7	4.6	5.4	5.7	5.4	5.4	5.2	5.2	5.1	4.8	4.6	5.2	5.1
320. *	4.4	4.4	4.5	5.1	5.0	5.0	4.8	4.6	4.3	5.5	5.7	5.3	5.5	5.4	5.2	5.0	4.9	4.5	5.1	5.1
330. *	4.8	4.8	4.7	4.8	4.7	4.8	4.7	4.3	4.3	5.5	5.3	5.2	5.7	5.2	5.3	5.2	4.8	4.6	5.4	5.1
340. *	5.1	5.0	5.0	4.5	4.5	4.5	4.3	4.3	4.3	5.3	5.3	5.2	5.4	5.1	4.9	5.5	5.1	5.1	5.5	5.4
350. *	5.2	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3	5.2	5.3	5.2	5.1	4.8	4.6	5.5	5.2	5.3	5.8	5.6
360. *	5.2	5.0	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.4	5.2	5.1	4.7	4.5	5.2	5.3	5.4	5.7	5.5
MAX *	5.9	5.5	5.4	5.6	5.3	5.4	5.9	5.9	5.7	6.0	6.0	5.8	5.7	5.4	5.3	5.6	5.6	5.4	5.8	5.6
DEGR. *	80	120	140	220	210	200	170	220	210	50	40	260	270	320	330	50	40	20	350	350

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PAGE 4

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
RUN: INT #27 2020 Build FFQ
POLLUTANT: 1 CO FILENAME: fr2720bd.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
10.	5.0	4.9	4.6	4.5	4.6	4.5	4.7	5.1	4.3
20.	5.1	4.9	4.6	4.5	4.6	4.5	4.6	4.9	4.3
30.	5.2	4.9	4.7	4.6	4.6	4.3	4.6	5.0	4.3
40.	5.5	5.0	4.9	4.7	4.7	4.3	4.6	5.2	4.3
50.	5.6	5.2	5.0	4.6	4.8	4.3	4.6	5.4	4.3
60.	5.4	5.6	5.1	5.0	4.9	4.4	4.7	4.8	4.3
70.	4.8	5.8	5.5	5.4	5.1	4.5	4.6	4.8	4.3
80.	4.6	5.8	5.4	5.5	5.2	4.6	4.6	4.7	4.3
90.	4.5	5.8	5.5	5.9	4.9	4.5	4.7	4.7	4.4
100.	4.5	5.6	5.7	5.7	4.9	4.5	4.7	4.7	4.5
110.	4.5	5.3	5.6	5.7	5.1	4.5	4.8	4.7	4.5
120.	4.5	5.4	5.5	5.2	4.8	4.7	4.9	4.7	4.5
130.	4.3	5.4	5.5	5.1	5.1	4.6	4.9	4.6	4.5
140.	4.4	5.4	5.4	5.0	5.2	4.6	4.6	4.8	4.5
150.	4.3	5.6	5.4	5.0	5.1	4.6	4.7	4.6	4.5
160.	4.3	5.4	5.3	5.0	5.0	4.6	4.4	4.4	4.6
170.	4.3	5.4	5.3	5.0	4.9	4.6	4.4	4.3	4.7
180.	4.3	5.3	5.3	5.0	4.7	4.6	4.4	4.3	4.8
190.	4.3	5.3	5.1	5.0	4.7	4.6	4.4	4.3	4.7
200.	4.3	5.5	5.1	5.1	4.7	4.6	4.4	4.3	4.7
210.	4.3	5.5	5.2	5.2	4.7	4.6	4.4	4.3	4.8
220.	4.3	5.6	5.3	5.3	4.8	4.6	4.4	4.3	4.7
230.	4.4	5.5	5.4	5.4	4.8	4.4	4.3	4.3	4.7
240.	4.6	5.4	5.4	5.4	4.7	4.3	4.3	4.3	4.6
250.	4.9	5.0	5.0	5.0	4.4	4.3	4.3	4.3	4.6
260.	5.1	4.5	4.5	4.5	4.3	4.3	4.3	4.6	4.6
270.	5.1	4.4	4.4	4.4	4.3	4.3	4.3	4.6	4.6
280.	5.1	4.4	4.3	4.3	4.3	4.3	4.3	4.6	4.6
290.	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6
300.	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6
310.	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.6	4.6

320. *	4.8	4.3	4.3	4.3	4.3	4.3	4.3	4.9	4.6
330. *	4.8	4.6	4.3	4.3	4.3	4.3	4.4	4.9	4.3
340. *	4.8	4.8	4.6	4.3	4.6	4.3	4.6	5.1	4.3
350. *	4.9	5.1	4.7	4.5	4.7	4.3	4.7	4.8	4.3
360. *	4.9	5.1	4.6	4.6	4.6	4.4	4.7	5.0	4.3
MAX *	5.6	5.8	5.7	5.9	5.2	4.7	4.9	5.4	4.8
DEGR. *	50	70	100	90	80	120	120	50	180

THE HIGHEST CONCENTRATION IS 6.0 PPM AT 40 DEGREES FROM REC11.

1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
RUN: INT #27 2020 Build FFQ
DATE: 09/07/2006 TIME: 11:45
POLLUTANT: 1 CO FILENAME: fr2720bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
	80	120	140	220	210	200	170	220	210	50	40	260	270	320	330	50	40	20	350	350
1 *	.2	.3	.3	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.2	.1
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
3 *	.1	.1	.1	.2	.2	.3	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
5 *	.5	.2	.1	.2	.0	.0	.5	.6	.7	.3	.4	.4	.0	.1	.1	.2	.1	.1	.0	.0
6 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.1	.1	.0	.0	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.2	.1	.0	.0	.0	.0	.2	.2	.3	.3	.4	.5	.0	.1	.1	.2	.1	.1	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.1	.1	.0	.0	.0	.2	.1	.1	.0	.0	.0	.2	.3	.3	.2	.2	.2	.0	.0
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	.1	.1	.3	.3	.4	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.2	.2
20 *	.1	.0	.1	.3	.2	.1	.0	.1	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0	.2	.2
21 *	.1	.2	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0

22 *	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0
23 *	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
24 *	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0
27 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.2
28 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
29 *	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
32 *	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	.1
33 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
34 *	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0
35 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
36 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
38 *	.0	.0	.0	.0	.0	.0	.1	.0	.1	.5	.3	.2	.1	.0	.0	.1	.1	.1	.0	.0
39 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

I

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
RUN: INT #27 2020 Build FFQ
DATE: 09/07/2006 TIME: 11:45
POLLUTANT: 1 CO FILENAME: fr2720bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
	50	70	100	90	80	120	120	50	180
1 *	.0	.2	.0	.0	.1	.0	.2	.0	.1
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.1	.0	.0	.1	.0	.1	.0	.1
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.2	.5	.0	.1	.2	.0	.1	.1	.1
6 *	.1	.1	.0	.0	.1	.0	.0	.1	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.1	.1	.1	.1	.1	.0	.1	.1	.0
10 *	.0	.1	.0	.0	.0	.0	.0	.1	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0

12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.1	.1	.0	.0	.0	.1	.0
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.1	.1	.0	.1	.0	.2	.1
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.3	.0	.2	.2	.0	.1	.0	.0	.0
20 *	.2	.3	.5	.6	.0	.1	.0	.0	.0
21 *	.0	.0	.0	.0	.1	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.1	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.1	.0	.1	.0	.1
24 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
26 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
27 *	.1	.0	.1	.1	.0	.0	.0	.0	.0
28 *	.1	.0	.1	.1	.0	.0	.0	.0	.0
29 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
31 *	.1	.0	.1	.1	.0	.0	.0	.0	.0
32 *	.1	.0	.1	.1	.0	.1	.0	.0	.0
33 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
34 *	.0	.1	.0	.0	.0	.0	.0	.0	.0
35 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
36 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
37 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
38 *	.0	.0	.0	.0	.0	.0	.0	.1	.0
39 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
40 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
41 *	.0	.0	.0	.0	.0	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 Build FFQ FR2720
INT #27 2020 Build FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MAIN ST SB APP 3	5.9	4.1
2	R2 MAIN ST SB APP 25	5.5	3.8
3	R3 MAIN ST SB APP 50	5.4	3.8
4	R4 MAIN ST NB DEP 3	5.6	3.9
5	R5 MAIN ST NB DEP 25	5.3	3.7
6	R6 MAIN ST NB DEP 50	5.4	3.8
7	R7 WILL ST WB APP 3	5.9	4.1
8	R8 WILL ST WB APP 25	5.9	4.1
9	R9 WILL ST WB APP 50	5.7	4.0
10	R10 WILL ST EB DEP	6.0	4.2
11	R11 WILL ST EB DEP 2	6.0	4.2
12	R12 WILL ST EB DEP 5	5.8	4.1
13	R13 MAIN ST NB APP 3	5.7	4.0
14	R14 MAIN ST NB APP 2	5.4	3.8
15	R15 MAIN ST NB APP 5	5.3	3.7
16	R16 MAIN ST SB DEP 3	5.6	3.9
17	R17 MAIN ST SB DEP 2	5.6	3.9
18	R18 MAIN ST SB DEP 5	5.4	3.8
19	R19 WILL ST EB APP 3	5.8	4.1
20	R20 WILL ST EB APP 2	5.6	3.9
21	R21 WILL ST EB APP 5	5.6	3.9
22	R22 WILL ST WB DEP 3	5.8	4.1
23	R23 WILL ST WB DEP 2	5.7	4.0
24	R24 WILL ST WB DEP 5	5.9	4.1
25	R25 HOUSE 1	5.2	3.6
26	R26 HOUSE 2	4.7	3.3
27	R27 HOUSE 3	4.9	3.4
28	R28 HOUSE 4	5.4	3.8
29	R29 HOUSE 5	4.8	3.3

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
DATE: 09/07/2006 TIME: 12:19
POLLUTANT: 1 CO FILENAME: fr2720nb.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB MAIN ST SB APP	*	1067.	590.	908.	910.	*	358.	334.	AG	943.	30.0	8.0	.0	56.0		
2. F1BC MAIN ST SB APP	*	908.	910.	597.	1473.	*	643.	331.	AG	943.	30.0	8.0	.0	44.0		
3. F2AB MAIN ST NB DEP	*	1106.	610.	959.	902.	*	327.	333.	AG	994.	30.0	8.0	.0	44.0		
4. F2BC MAIN ST NB DEP	*	959.	902.	632.	1486.	*	669.	331.	AG	994.	30.0	8.0	.0	44.0		
5. F3AB WILL ST WB APP	*	1077.	616.	1355.	732.	*	301.	67.	AG	3258.	30.0	8.0	.0	44.0		
6. F3BC WILL ST WB APP	*	1355.	732.	1640.	986.	*	382.	48.	AG	3258.	30.0	8.0	.0	44.0		
7. F3CD WILL ST WB APP	*	1640.	986.	1766.	1037.	*	136.	68.	AG	3258.	30.0	8.0	.0	44.0		
8. F3DE WILL ST WB APP	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	3258.	30.0	8.0	.0	44.0		
9. F4AB WILL ST EB DEP	*	1090.	587.	1386.	717.	*	324.	66.	AG	1893.	30.0	8.0	.0	44.0		
10. F4BC WILL ST EB DEP	*	1386.	717.	1645.	962.	*	356.	47.	AG	1893.	30.0	8.0	.0	44.0		
11. F4CD WILL ST EB DEP	*	1645.	962.	1798.	1017.	*	163.	70.	AG	1893.	30.0	8.0	.0	44.0		
12. F4DE WILL ST EB DEP	*	1798.	1017.	1955.	1024.	*	157.	87.	AG	1893.	30.0	8.0	.0	44.0		
13. F5AB MAIN ST NB APP	*	1105.	611.	1223.	242.	*	387.	162.	AG	1532.	40.0	8.3	.0	56.0		
14. F5BC MAIN ST NB APP	*	1223.	242.	1340.	-71.	*	335.	159.	AG	1532.	40.0	8.3	.0	44.0		
15. F5CD MAIN ST NB APP	*	1340.	-71.	1479.	-315.	*	280.	150.	AG	1532.	40.0	8.3	.0	44.0		
16. F6AB MAIN ST SB DEP	*	1067.	590.	1186.	225.	*	384.	162.	AG	2199.	40.0	8.3	.0	44.0		
17. F6BC MAIN ST SB DEP	*	1186.	225.	1311.	-109.	*	356.	160.	AG	2199.	40.0	8.3	.0	44.0		
18. F6CD MAIN ST SB DEP	*	1311.	-109.	1440.	-333.	*	259.	150.	AG	2199.	40.0	8.3	.0	44.0		
19. F7AB WILL ST EB APP	*	1089.	587.	258.	233.	*	902.	247.	AG	834.	30.0	8.0	.0	44.0		
20. F8AB WILL ST WB DEP	*	1076.	618.	246.	252.	*	907.	246.	AG	1481.	30.0	8.0	.0	44.0		
21. Q1AB MAIN ST SB TR	*	1042.	631.	970.	775.	*	161.	334.	AG	82.	.0	100.0	.0	12.0	.91	8.2
22. Q2AB MAIN ST SB T	*	1051.	638.	978.	783.	*	162.	333.	AG	82.	.0	100.0	.0	12.0	.91	8.2
23. Q8AB MAIN ST NB L	*	1115.	532.	1125.	501.	*	33.	163.	AG	104.	.0	100.0	.0	12.0	.76	1.7
24. FQ3AB MAIN ST SB L	*	1064.	643.	908.	910.	*	309.	330.	AG	104.	99.0	100.0	.0	12.0		
25. FQ3BC MAIN ST SB L	*	908.	910.	597.	1473.	*	643.	331.	AG	104.	99.0	100.0	.0	12.0		
26. FQ4AB WILL ST WB TR	*	1140.	652.	1355.	732.	*	229.	70.	AG	67.	99.0	100.0	.0	12.0		
27. FQ4BC WILL ST WB TR	*	1355.	732.	1640.	986.	*	382.	48.	AG	67.	99.0	100.0	.0	12.0		
28. FQ4CD WILL ST WB TR	*	1640.	986.	1766.	1037.	*	136.	68.	AG	67.	99.0	100.0	.0	12.0		
29. FQ4DE WILL ST WB TR	*	1766.	1037.	1947.	1054.	*	182.	85.	AG	67.	99.0	100.0	.0	12.0		

30. FQ5AB WILL ST WB LT *	1145.	640.	1355.	732. *	229.	66. AG	67.	99.0	100.0	.0	12.0
31. FQ5BC WILL ST WB LT *	1355.	732.	1640.	986. *	382.	48. AG	67.	99.0	100.0	.0	12.0
32. FQ5CD WILL ST WB LT *	1640.	986.	1766.	1037. *	136.	68. AG	67.	99.0	100.0	.0	12.0
33. FQ5DE WILL ST WB LT *	1766.	1037.	1947.	1054. *	182.	85. AG	67.	99.0	100.0	.0	12.0
34. FQ6AB MAIN ST NB TR *	1136.	540.	1223.	242. *	310.	164. AG	82.	99.0	100.0	.0	12.0
35. FQ6BC MAIN ST NB TR *	1223.	242.	1340.	-71. *	334.	160. AG	82.	99.0	100.0	.0	12.0
36. FQ6CD MAIN ST NB TR *	1340.	-71.	1479.	-315. *	281.	150. AG	82.	99.0	100.0	.0	12.0
37. FQ7AB MAIN ST NB T *	1124.	536.	1223.	242. *	310.	161. AG	82.	99.0	100.0	.0	12.0
38. FQ7BC MAIN ST NB T *	1223.	242.	1340.	-71. *	334.	160. AG	82.	99.0	100.0	.0	12.0
39. FQ7CD MAIN ST NB T *	1340.	-71.	1479.	-315. *	281.	150. AG	82.	99.0	100.0	.0	12.0
40. FQ9AB WILL ST EB TR *	1042.	559.	258.	233. *	849.	247. AG	94.	99.0	100.0	.0	12.0
41. FQ10AB WIL ST EB LT *	1038.	568.	258.	233. *	849.	247. AG	94.	99.0	100.0	.0	12.0

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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
DATE: 09/07/2006 TIME: 12:19
POLLUTANT: 1 CO FILENAME: fr2720nb.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION *	CYCLE (SEC)	RED (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
21. Q1AB MAIN ST SB TR *	90	64	3.0	340	1600	43.08	1	3	1
22. Q2AB MAIN ST SB T *	90	64	3.0	341	1600	43.08	1	3	1
23. Q8AB MAIN ST NB L *	90	81	3.0	54	1600	43.08	1	3	1

RECEPTOR LOCATIONS

RECEPTOR *	COORDINATES (FT) X	Y	Z
1. R1 MAIN ST SB APP 3 *	1010.9	631.3	6.0
2. R2 MAIN ST SB APP 25 *	980.8	695.3	6.0
3. R3 MAIN ST SB APP 50 *	940.3	774.3	6.0
4. R4 MAIN ST NB DEP 3 *	1108.1	681.6	6.0
5. R5 MAIN ST NB DEP 25 *	1081.8	737.7	6.0
6. R6 MAIN ST NB DEP 50 *	1036.1	816.6	6.0
7. R7 WILL ST WB APP 3 *	1142.4	669.0	6.0
8. R8 WILL ST WB APP 25 *	1200.8	695.8	6.0
9. R9 WILL ST WB APP 50 *	1279.7	725.5	6.0
10. R10 WILL ST EB DEP *	1176.8	583.2	6.0
11. R11 WILL ST EB DEP 2 *	1233.9	614.1	6.0
12. R12 WILL ST EB DEP 5 *	1311.7	655.3	6.0

13. R13 MAIN ST NB APP 3 * 1158.5 538.6 6.0 *
14. R14 MAIN ST NB APP 2 * 1180.2 468.9 6.0 *
15. R15 MAIN ST NB APP 5 * 1209.2 390.0 6.0 *
16. R16 MAIN ST SB DEP 3 * 1067.7 512.3 6.0 *
17. R17 MAIN ST SB DEP 2 * 1089.4 439.1 6.0 *
18. R18 MAIN ST SB DEP 5 * 1113.4 368.2 6.0 *
19. R19 WILL ST EB APP 3 * 1040.7 537.1 6.0 *
20. R20 WILL ST EB APP 2 * 977.7 511.2 6.0 *
21. R21 WILL ST EB APP 5 * 896.5 478.0 6.0 *
22. R22 WILL ST WB DEP 3 * 1008.6 611.9 6.0 *
23. R23 WILL ST WB DEP 2 * 938.9 582.5 6.0 *
24. R24 WILL ST WB DEP 5 * 865.7 550.5 6.0 *
25. R25 HOUSE 1 * 932.0 638.2 6.0 *
26. R26 HOUSE 2 * 720.4 650.7 6.0 *
27. R27 HOUSE 3 * 846.2 870.3 6.0 *
28. R28 HOUSE 4 * 1051.0 430.0 6.0 *
29. R29 HOUSE 5 * 1060.1 929.8 6.0 *

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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
POLLUTANT: I CO FILENAME: fr2720nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO
THE MAXIMUM CONCENTRATION, ONLY THE FIRST
ANGLE, OF THE ANGLES WITH SAME MAXIMUM
CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10. *	5.4	5.2	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.5	5.6	5.2	4.9	4.6	5.8	5.7	5.9	5.4	5.6
20. *	5.2	5.2	4.9	4.3	4.3	4.3	4.4	4.3	4.4	5.4	5.5	5.8	5.2	4.8	4.6	6.0	6.0	5.8	5.3	5.7
30. *	5.0	5.1	4.8	4.3	4.3	4.3	4.4	4.3	4.4	5.6	5.7	6.1	5.3	5.0	4.8	5.9	6.1	5.9	5.7	5.6
40. *	5.0	5.0	4.8	4.3	4.3	4.3	4.4	4.5	4.6	5.8	6.0	6.1	5.3	4.8	4.5	6.2	6.1	5.8	5.9	5.8
50. *	5.1	5.0	4.8	4.4	4.3	4.3	4.8	4.7	5.3	5.9	6.0	6.1	5.0	4.5	4.3	6.1	5.7	5.5	6.5	6.0
60. *	5.5	5.2	4.8	4.7	4.4	4.3	5.4	5.5	5.8	5.1	5.1	5.2	4.7	4.3	4.3	5.7	5.3	5.3	6.2	5.8
70. *	6.0	5.4	4.9	5.1	4.6	4.4	6.0	6.1	6.0	4.6	4.7	4.6	4.3	4.3	4.3	5.6	5.4	5.4	5.7	5.3
80. *	6.3	5.6	5.1	5.5	4.7	4.6	6.5	6.1	6.2	4.3	4.3	4.4	4.3	4.3	4.3	5.5	5.3	5.4	5.0	4.7
90. *	5.7	5.7	5.3	5.5	4.8	4.6	6.4	6.3	6.1	4.3	4.3	4.3	4.3	4.3	4.3	5.5	5.3	5.3	4.9	4.6

100. *	5.6	5.7	5.4	5.5	5.0	4.6	6.2	6.1	6.1	4.3	4.3	4.3	4.3	4.3	4.3	5.5	5.4	5.4	5.3	4.8
110. *	5.5	5.6	5.6	5.5	5.1	4.7	6.1	6.0	6.0	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	5.3	5.0
120. *	5.5	5.7	5.6	5.4	5.1	4.6	5.8	5.8	5.9	4.3	4.3	4.3	4.3	4.3	4.3	5.5	5.5	5.5	5.2	5.0
130. *	5.7	5.7	5.7	5.4	5.0	4.6	5.7	5.7	5.7	4.3	4.3	4.3	4.3	4.3	4.3	5.6	5.6	5.6	5.3	4.9
140. *	5.6	5.6	5.6	5.2	4.8	4.6	5.7	5.7	5.7	4.3	4.3	4.3	4.4	4.4	4.3	5.8	5.7	6.0	5.4	4.8
150. *	5.9	5.6	5.2	5.3	4.9	4.9	5.7	5.7	5.7	4.3	4.3	4.3	4.5	4.6	4.5	5.9	5.8	5.9	5.3	4.6
160. *	5.7	5.1	5.0	6.0	5.6	5.3	6.2	5.7	5.8	4.6	4.3	4.3	5.2	5.3	5.2	5.4	5.4	5.4	4.9	4.4
170. *	5.0	4.9	4.6	6.3	5.7	5.4	6.5	6.0	5.7	5.0	4.5	4.3	5.6	5.7	5.6	4.8	4.7	4.7	4.5	4.3
180. *	4.9	4.8	4.7	6.2	5.4	5.3	6.5	6.3	5.9	5.2	4.7	4.5	5.8	5.8	5.7	4.5	4.4	4.4	4.3	4.3
190. *	4.9	4.8	4.7	5.6	5.3	5.3	6.4	6.3	6.2	5.1	4.9	4.6	5.7	5.6	5.7	4.4	4.4	4.4	4.3	4.3
200. *	4.9	4.8	4.7	5.7	5.4	5.5	6.1	6.4	6.4	5.1	4.9	4.6	5.6	5.6	5.6	4.4	4.3	4.3	4.3	4.3
210. *	5.0	4.8	4.7	5.5	5.4	5.3	6.1	6.3	6.4	5.1	4.9	4.6	5.5	5.5	5.4	4.3	4.3	4.3	4.3	4.3
220. *	5.0	4.8	4.7	5.5	5.4	5.3	6.2	6.5	6.5	5.2	4.9	4.5	5.5	5.4	5.3	4.3	4.3	4.3	4.3	4.3
230. *	5.3	4.8	4.4	5.5	5.4	5.0	6.3	6.6	6.9	4.9	4.7	4.6	5.4	5.3	5.3	4.3	4.3	4.3	4.4	4.4
240. *	5.0	4.4	4.3	5.5	5.3	4.7	6.1	6.2	6.6	5.3	5.2	5.3	5.4	5.3	5.3	4.4	4.3	4.3	4.9	4.9
250. *	4.8	4.3	4.3	5.3	5.0	4.7	5.7	5.5	6.1	5.5	5.5	5.7	5.8	5.3	5.3	4.7	4.3	4.3	5.3	5.3
260. *	4.4	4.3	4.3	5.0	4.9	4.7	5.2	4.9	5.0	5.7	5.6	5.9	5.9	5.7	5.4	5.1	4.7	4.4	5.6	5.6
270. *	4.3	4.3	4.3	4.9	4.9	4.7	5.0	4.9	4.8	5.6	5.6	6.1	5.8	5.7	5.7	5.1	4.7	4.7	5.5	5.5
280. *	4.3	4.3	4.3	4.9	4.9	4.8	5.0	4.7	4.7	5.6	5.6	6.0	5.6	5.8	5.7	5.0	4.7	4.7	5.4	5.4
290. *	4.3	4.3	4.3	5.2	4.8	4.8	5.0	4.6	4.5	5.5	5.7	6.0	5.4	5.8	5.8	4.8	4.7	4.7	5.3	5.3
300. *	4.3	4.3	4.3	5.2	4.8	5.0	4.9	4.6	4.4	5.8	5.8	5.7	5.4	5.8	5.8	4.9	4.7	4.7	5.1	5.2
310. *	4.3	4.3	4.3	4.9	5.0	5.1	4.7	4.7	4.6	5.9	5.7	5.7	5.7	5.8	5.7	4.9	4.7	4.8	5.1	5.1
320. *	4.4	4.4	4.5	5.1	5.0	4.9	4.9	4.6	4.4	5.9	5.8	5.6	5.8	6.0	5.7	4.9	4.8	4.7	5.1	5.1
330. *	4.9	4.9	4.7	4.8	4.7	4.8	4.7	4.3	4.3	5.6	5.4	5.5	6.0	5.8	5.8	5.3	5.0	4.7	5.4	5.1
340. *	5.2	5.1	5.1	4.5	4.5	4.5	4.3	4.3	4.3	5.4	5.4	5.5	5.4	5.4	5.4	5.8	5.3	5.2	5.9	5.4
350. *	5.3	5.4	5.1	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	5.2	4.9	4.8	5.8	5.7	5.7	5.7	5.6
360. *	5.2	5.3	5.0	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.4	5.4	5.1	4.9	4.7	5.5	5.7	5.9	5.6	5.4
MAX *	6.3	5.7	5.7	6.3	5.7	5.5	6.5	6.6	6.9	5.9	6.0	6.1	6.0	6.0	5.8	6.2	6.1	6.0	6.5	6.0
DEGR. *	80	90	130	170	170	200	80	230	230	50	40	30	330	320	290	40	30	140	50	50

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JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
POLLUTANT: 1 CO FILENAME: fr2720nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
10.	5.4	5.0	4.6	4.4	4.6	4.6	4.7	5.4	4.3
20.	5.6	4.9	4.8	4.5	4.7	4.6	4.6	5.0	4.3
30.	5.7	4.9	4.8	4.6	4.8	4.3	4.6	5.5	4.3
40.	5.7	5.0	4.9	4.7	4.8	4.3	4.6	5.5	4.3
50.	5.7	5.2	5.1	4.8	4.8	4.3	4.6	5.4	4.3
60.	5.8	5.9	5.3	5.3	5.0	4.4	4.7	5.1	4.3
70.	5.3	6.2	5.7	5.6	5.3	4.5	4.6	5.0	4.3
80.	4.8	6.3	5.8	5.6	5.4	4.7	4.7	5.0	4.4
90.	4.6	5.9	5.5	5.6	5.1	4.5	4.8	5.0	4.5
100.	4.6	5.6	5.5	5.5	5.1	4.8	4.8	5.1	4.6
110.	4.6	5.5	5.5	5.5	5.1	4.7	4.9	5.1	4.5
120.	4.6	5.5	5.5	5.3	4.9	4.9	5.0	5.1	4.6
130.	4.6	5.7	5.5	5.3	5.4	4.8	5.1	5.2	4.5
140.	4.5	5.7	5.5	5.3	5.2	4.8	4.9	4.9	4.6
150.	4.4	6.1	5.3	5.1	5.3	4.7	4.7	4.8	4.6
160.	4.3	5.6	5.1	5.0	5.0	4.7	4.5	4.6	4.8
170.	4.3	5.1	5.0	5.0	4.8	4.7	4.4	4.3	4.9
180.	4.3	5.0	5.0	5.0	4.8	4.7	4.4	4.3	4.9
190.	4.3	5.0	5.0	5.0	4.8	4.7	4.4	4.3	4.8
200.	4.3	5.2	5.1	5.1	4.8	4.7	4.4	4.3	4.7
210.	4.3	5.3	5.3	5.3	4.8	4.7	4.4	4.3	4.7
220.	4.3	5.5	5.5	5.5	4.9	4.7	4.4	4.3	4.7
230.	4.4	5.6	5.6	5.6	4.9	4.4	4.3	4.3	4.7
240.	4.9	5.5	5.4	5.4	4.8	4.3	4.3	4.3	4.6
250.	5.3	5.1	5.1	5.1	4.4	4.3	4.3	4.3	4.6
260.	5.7	4.5	4.5	4.5	4.3	4.3	4.3	4.7	4.5
270.	5.5	4.4	4.4	4.4	4.3	4.3	4.3	4.7	4.6
280.	5.4	4.4	4.3	4.3	4.3	4.3	4.3	4.7	4.6
290.	5.4	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
300.	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
310.	5.2	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
320.	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.7	4.6
330.	5.1	4.6	4.3	4.3	4.3	4.3	4.5	4.7	4.3
340.	5.1	5.0	4.6	4.3	4.6	4.3	4.6	4.9	4.3
350.	5.4	5.1	4.7	4.6	4.7	4.3	4.8	5.0	4.3
360.	5.3	5.2	4.6	4.6	4.6	4.5	4.7	5.1	4.3
MAX	5.8	6.3	5.8	5.6	5.4	4.9	5.1	5.5	4.9
DEGR.	60	80	80	70	80	120	130	30	170

THE HIGHEST CONCENTRATION IS 6.9 PPM AT 230 DEGREES FROM REC9 .

1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
DATE: 09/07/2006 TIME: 12:19
POLLUTANT: 1 CO FILENAME: fr2720nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	80	90	130	170	170	200	80	230	230	50	40	30	330	320	290	40	30	140	50	50
1 *	.2	.2	.3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
3 *	.1	.1	.1	.1	.2	.3	.0	.1	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
5 *	.7	.3	.2	.6	.3	.0	1.3	1.1	1.3	.3	.4	.3	.3	.1	.0	.4	.3	.0	.5	.4
6 *	.1	.1	.0	.0	.0	.0	.1	.0	.0	.3	.3	.5	.0	.0	.0	.1	.1	.0	.2	.1
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.2	.1	.1	.2	.1	.0	.3	.2	.3	.5	.5	.6	.3	.1	.0	.3	.2	.0	.4	.2
10 *	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.1	.4	.2	.0	.0	.1	.1	.0	.0	.0	.4	.5	.4	.3	.3	.2	.2	.1
14 *	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.0	.0	.0	.3	.3	.0	.0	.1	.1	.0	.0	.0	.0	.2	.3	.6	.6	.8	.4	.1
17 *	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3
20 *	.1	.0	.0	.0	.0	.1	.0	.2	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1
21 *	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.1	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0
24 *	.1	.2	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
25 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
26 *	.1	.1	.0	.0	.0	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.1	.0	.0	.1	.0
27 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0
28 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30 *	.1	.0	.0	.0	.0	.0	.2	.1	.2	.1	.1	.1	.0	.0	.0	.1	.0	.0	.1	.0
31 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0

32 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
34 *	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.1	.1	.0	.0
35 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
36 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
37 *	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.1	.1	.0	.0
38 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
39 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
40 *	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.2
41 *	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1

1

JOB: RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
RUN: INT #27 2020 No Build FFQ
DATE: 09/07/2006 TIME: 12:19
POLLUTANT: 1 CO FILENAME: fr2720nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21	REC22	REC23	REC24	REC25	REC26	REC27	REC28	REC29
	60	80	80	70	80	120	130	30	170
1 *	.0	.2	.1	.1	.1	.0	.2	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.1	.0	.0	.1	.0	.1	.0	.1
4 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.2	.7	.3	.3	.3	.0	.1	.3	.1
6 *	.1	.1	.1	.1	.1	.0	.0	.1	.0
7 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
8 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
9 *	.2	.3	.2	.1	.1	.0	.1	.2	.1
10 *	.1	.0	.0	.1	.1	.0	.0	.0	.0
11 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
12 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.1	.0	.1	.0	.0	.1	.0	.2	.1
14 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.1	.0	.1	.0	.0	.1	.0	.4	.1
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.1
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.3	.0	.1	.1	.0	.1	.0	.0	.0
20 *	.1	.4	.5	.5	.0	.1	.0	.0	.0
21 *	.0	.0	.0	.0	.1	.0	.1	.0	.0

22	*	.0	.0	.0	.0	.1	.0	.1	.0	.0
23	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	*	.0	.0	.0	.0	.1	.0	.1	.0	.0
25	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
27	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
31	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
32	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
33	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
34	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
35	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
36	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
37	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
38	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
39	*	.0	.0	.0	.0	.0	.0	.0	.0	.0
40	*	.2	.0	.0	.0	.0	.1	.0	.0	.0
41	*	.1	.0	.0	.0	.0	.1	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD EIE INT #27 WILLOW STREET AND MAIN STREET 2020 No Build FFQ FR2
INT #27 2020 No Build FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 MAIN ST SB APP 3	6.3	4.4
2	R2 MAIN ST SB APP 25	5.7	4.0
3	R3 MAIN ST SB APP 50	5.7	4.0
4	R4 MAIN ST NB DEP 3	6.3	4.4
5	R5 MAIN ST NB DEP 25	5.7	4.0
6	R6 MAIN ST NB DEP 50	5.5	3.8
7	R7 WILL ST WB APP 3	6.5	4.5
8	R8 WILL ST WB APP 25	6.6	4.6
9	R9 WILL ST WB APP 50	6.9	4.8
10	R10 WILL ST EB DEP	5.9	4.1
11	R11 WILL ST EB DEP 2	6.0	4.2
12	R12 WILL ST EB DEP 5	6.1	4.3
13	R13 MAIN ST NB APP 3	6.0	4.2
14	R14 MAIN ST NB APP 2	6.0	4.2
15	R15 MAIN ST NB APP 5	5.8	4.1
16	R16 MAIN ST SB DEP 3	6.2	4.3
17	R17 MAIN ST SB DEP 2	6.1	4.3
18	R18 MAIN ST SB DEP 5	6.0	4.2
19	R19 WILL ST EB APP 3	6.5	4.5
20	R20 WILL ST EB APP 2	6.0	4.2
21	R21 WILL ST EB APP 5	5.8	4.1
22	R22 WILL ST WB DEP 3	6.3	4.4
23	R23 WILL ST WB DEP 2	5.8	4.1
24	R24 WILL ST WB DEP 5	5.6	3.9
25	R25 HOUSE 1	5.4	3.8
26	R26 HOUSE 2	4.9	3.4
27	R27 HOUSE 3	5.1	3.6
28	R28 HOUSE 4	5.5	3.8
29	R29 HOUSE 5	4.9	3.4

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
RUN: INT #31 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:18
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB AIRCRFT SB APP	*	2435.	5806.	2366.	6161.	*	362.	349.	AG	166.	30.0	8.0	.0	44.0		
2. F1BC AIRCRFT SB APP	*	2366.	6160.	2380.	6581.	*	421.	2.	AG	166.	30.0	8.0	.0	44.0		
3. F1CD AIRCRFT SB APP	*	2381.	6581.	2427.	6791.	*	215.	12.	AG	166.	30.0	8.0	.0	44.0		
4. F2AB AIRCRFT NB DEP	*	2458.	5811.	2396.	6159.	*	353.	350.	AG	227.	30.0	8.0	.0	44.0		
5. F2BC AIRCRFT NB DEP	*	2396.	6159.	2404.	6575.	*	416.	1.	AG	227.	30.0	8.0	.0	44.0		
6. F2CD AIRCRFT NB DEP	*	2404.	6574.	2450.	6778.	*	209.	13.	AG	227.	30.0	8.0	.0	44.0		
7. F3AB WILLOW WB APP	*	2445.	5821.	3442.	5988.	*	1011.	80.	AG	1887.	30.0	8.0	.0	44.0		
8. F4AB WILLOW EB DEP	*	2450.	5793.	3446.	5961.	*	1010.	80.	AG	1358.	30.0	8.0	.0	44.0		
9. F5AB AIRCRFT NB APP	*	2458.	5810.	2631.	4855.	*	971.	170.	AG	131.	30.0	8.0	.0	32.0		
10. F6AB AIRCRFT SB DEP	*	2435.	5807.	2604.	4849.	*	973.	170.	AG	33.	30.0	8.0	.0	44.0		
11. F7AB WILLOW EB APP	*	2448.	5792.	2196.	5733.	*	259.	257.	AG	1424.	30.0	8.0	.0	44.0		
12. F7BC WILLOW EB APP	*	2195.	5732.	1546.	5364.	*	746.	240.	AG	1424.	30.0	8.0	.0	44.0		
13. F8AB WILLOW WB DEP	*	2447.	5821.	2201.	5758.	*	254.	256.	AG	1990.	30.0	8.0	.0	44.0		
14. F8BC WILLOW WB DEP	*	2201.	5757.	1528.	5394.	*	764.	242.	AG	1990.	30.0	8.0	.0	44.0		
15. Q1AB AIRCRFT SB TR	*	2418.	5858.	2405.	5926.	*	69.	349.	AG	93.	.0	100.0	.0	12.0	.55	3.5
16. Q2AB AIRCRFT SB L	*	2430.	5861.	2426.	5879.	*	19.	349.	AG	93.	.0	100.0	.0	12.0	.15	.9
17. Q4AB WILLOW WB TL	*	2495.	5825.	2602.	5844.	*	109.	80.	AG	41.	.0	100.0	.0	12.0	.48	5.5
18. Q5AB AIRCRFT NB TLR	*	2463.	5762.	2476.	5694.	*	69.	169.	AG	93.	.0	100.0	.0	12.0	.55	3.5
19. Q6AB WILLOW EB TR	*	2394.	5780.	2272.	5752.	*	126.	257.	AG	22.	.0	100.0	.0	12.0	.81	6.4
20. Q7AB WILLOW EB TL	*	2390.	5797.	2338.	5782.	*	54.	254.	AG	22.	.0	100.0	.0	12.0	.35	2.7
21. FQ3AB WILLOW WB TR	*	2489.	5840.	3442.	5988.	*	964.	81.	AG	41.	99.0	100.0	.0	12.0		

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JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
RUN: INT #31 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:18
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	LENGTH (SEC)	CYCLE TIME (SEC)	RED LOST TIME (SEC)	CLEARANCE VOL (VPH)	APPROACH FLOW RATE (VPH)	SATURATION RATE (gm/hr)	EM FAC	IDLE TYPE	SIGNAL RATE	ARRIVAL LANES	NO.OF
15. Q1AB AIRCRFT SB TR	120	97	3.0	131	1600	43.08	1	3	1		
16. Q2AB AIRCRFT SB L	120	97	3.0	35	1600	43.08	1	3	1		
17. Q4AB WILLOW WB TL	120	43	3.0	464	1600	43.08	1	3	1		
18. Q5AB AIRCRFT NB TLR	120	97	3.0	131	1600	43.08	1	3	1		
19. Q6AB WILLOW EB TR	120	23	3.0	998	1600	43.08	1	3	1		
20. Q7AB WILLOW EB TL	120	23	3.0	426	1600	43.08	1	3	1		

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 AIRCRFT SB APP 3	2394.6	5866.1	6.0
2. R2 AIRCRFT SB APP 25	2382.7	5940.9	6.0
3. R3 AIRCRFT SB APP 50	2365.6	6013.8	6.0
4. R4 AIRCRFT NB DEP 3	2470.6	5880.1	6.0
5. R5 AIRCRFT NB DEP 25	2456.1	5950.5	6.0
6. R6 AIRCRFT NB DEP 50	2442.9	6023.8	6.0
7. R7 WILLOW WB APP 3	2493.3	5862.8	6.0
8. R8 WILLOW WB APP 25	2564.0	5873.9	6.0
9. R9 WILLOW WB APP 50	2637.8	5887.5	6.0
10. R10 WILLOW EB DEP 3	2508.7	5781.9	6.0
11. R11 WILLOW EB DEP 25	2582.6	5791.9	6.0
12. R12 WILLOW EB DEP 50	2656.4	5804.2	6.0
13. R13 AIRCRFT NB APP 3	2496.9	5757.2	6.0
14. R14 AIRCRFT NB APP 2	2508.7	5686.4	6.0
15. R15 AIRCRFT NB APP 5	2523.9	5605.8	6.0
16. R16 AIRCRFT SB DEP 3	2418.0	5745.4	6.0
17. R17 AIRCRFT SB DEP 2	2429.9	5674.8	6.0
18. R18 AIRCRFT SB DEP 5	2444.9	5600.4	6.0
19. R19 WILLOW EB APP 3	2390.6	5754.4	6.0
20. R20 WILLOW EB APP 2	2321.5	5738.6	6.0
21. R21 WILLOW EB APP 5	2238.7	5719.2	6.0
22. R22 WILLOW WB DEP 3	2369.3	5841.1	6.0
23. R23 WILLOW WB DEP 2	2307.4	5821.5	6.0
24. R24 WILLOW WB DEP 5	2222.5	5797.7	6.0
25. R25 HOUSE 1	2881.3	6023.6	6.0
26. R26 HOUSE 2	2702.9	5488.3	6.0

1

RUN: INT #31 2020 BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	* CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10.	4.6	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	5.0	4.9	4.6	4.5	4.9	4.7	4.6	5.1	5.0
20.	4.6	4.4	4.4	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.1	5.1	4.9	4.6	4.5	4.9	4.6	4.6	5.1	5.1
30.	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.3	5.2	5.2	4.9	4.7	4.5	4.9	4.7	4.5	5.1	5.2
40.	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.2	5.2	4.9	4.7	4.5	5.0	4.8	4.5	5.2	5.3
50.	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.4	5.3	5.3	5.0	4.7	4.5	5.0	4.8	4.5	5.2	5.2
60.	4.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.5	5.4	5.4	5.2	4.7	4.5	5.1	4.8	4.5	5.5	5.3
70.	4.7	4.3	4.3	4.4	4.3	4.3	4.5	4.5	4.5	5.6	5.5	5.5	5.1	4.6	4.5	5.2	4.8	4.5	5.5	5.3
80.	5.1	4.4	4.3	4.8	4.4	4.3	5.0	5.0	4.9	5.2	5.2	5.1	4.8	4.5	4.3	4.9	4.5	4.3	5.1	5.0
90.	5.3	4.6	4.5	5.0	4.6	4.4	5.3	5.4	5.2	4.8	4.7	4.7	4.5	4.3	4.3	4.6	4.3	4.3	4.8	4.6
100.	5.3	4.6	4.5	5.0	4.6	4.5	5.4	5.4	5.4	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.4
110.	5.0	4.7	4.6	5.0	4.6	4.6	5.4	5.3	5.3	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.3
120.	5.0	4.7	4.6	5.1	4.6	4.6	5.2	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.3
130.	4.8	4.9	4.5	5.0	4.6	4.5	5.2	5.1	5.1	4.3	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3
140.	4.8	4.9	4.6	4.9	4.6	4.5	5.1	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
150.	4.8	4.9	4.7	4.8	4.6	4.5	5.1	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
160.	4.8	4.8	4.6	4.8	4.6	4.5	5.1	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
170.	4.8	4.7	4.5	4.8	4.7	4.6	5.0	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
180.	4.8	4.6	4.5	4.8	4.7	4.6	5.0	5.1	5.0	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
190.	4.8	4.6	4.5	5.0	4.7	4.7	5.0	5.1	5.0	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
200.	4.8	4.6	4.5	5.0	4.8	4.7	4.9	5.1	5.0	4.4	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
210.	4.9	4.6	4.7	4.9	4.8	4.6	5.0	5.2	5.1	4.4	4.3	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
220.	4.9	4.7	4.5	5.0	5.0	4.8	5.2	5.2	5.1	4.4	4.3	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
230.	5.1	4.7	4.6	5.2	5.0	4.6	5.3	5.4	5.2	4.5	4.3	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.4	4.5
240.	5.1	4.6	4.4	5.2	4.9	4.6	5.4	5.6	5.6	4.8	4.6	4.4	4.7	4.3	4.3	4.5	4.3	4.3	4.6	4.8
250.	4.7	4.4	4.3	5.2	4.5	4.4	5.2	5.3	5.4	5.1	4.9	4.8	4.8	4.5	4.3	4.7	4.5	4.3	4.9	5.0
260.	4.4	4.3	4.3	4.8	4.4	4.4	4.7	4.9	4.8	5.3	5.2	5.2	5.0	4.5	4.5	4.9	4.6	4.5	5.2	5.3
270.	4.3	4.3	4.3	4.6	4.4	4.4	4.5	4.5	4.5	5.3	5.3	5.4	5.1	4.5	4.5	5.0	4.6	4.5	5.4	5.3
280.	4.3	4.3	4.3	4.5	4.4	4.4	4.4	4.3	4.3	5.4	5.3	5.2	5.0	4.8	4.5	5.1	4.7	4.5	5.4	5.2
290.	4.3	4.3	4.3	4.5	4.4	4.4	4.4	4.3	4.3	5.2	5.2	5.3	4.9	4.7	4.6	5.0	4.6	4.5	5.3	5.2

300. *	4.3	4.3	4.3	4.5	4.4	4.4	4.4	4.3	4.3	5.2	5.2	5.2	4.9	4.9	4.5	4.9	4.7	4.6	5.2	5.1
310. *	4.3	4.3	4.3	4.5	4.4	4.4	4.4	4.3	4.3	5.1	5.2	5.2	4.9	4.8	4.5	4.9	4.7	4.5	5.1	5.1
320. *	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.3	4.3	5.1	5.1	5.1	4.8	4.8	4.5	4.9	4.7	4.5	5.1	5.1
330. *	4.3	4.3	4.3	4.4	4.4	4.4	4.4	4.3	4.3	5.0	5.1	5.0	4.8	4.8	4.6	4.9	4.6	4.5	5.0	5.0
340. *	4.3	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3	4.9	5.0	4.9	4.9	4.7	4.7	4.9	4.7	4.5	5.0	5.1
350. *	4.3	4.3	4.3	4.4	4.4	4.4	4.3	4.3	4.3	5.0	5.1	5.1	4.9	4.5	4.5	4.9	4.6	4.5	5.0	5.1
360. *	4.5	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3	5.0	5.0	4.9	4.9	4.6	4.5	5.0	4.6	4.6	4.9	5.0
MAX *	5.3	4.9	4.7	5.2	5.0	4.8	5.4	5.6	5.6	5.6	5.5	5.5	5.2	4.9	4.7	5.2	4.8	4.6	5.5	5.3
DEGR. *	90	130	150	230	220	220	100	240	240	70	70	70	60	300	340	70	40	10	60	40

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JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
RUN: INT #31 2020 BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26
10. *	5.1	4.3	4.3	4.3	4.3	4.5
20. *	5.1	4.4	4.3	4.3	4.3	4.5
30. *	5.1	4.4	4.3	4.3	4.3	4.5
40. *	5.2	4.4	4.3	4.3	4.3	4.5
50. *	5.2	4.4	4.4	4.3	4.3	4.5
60. *	5.5	4.4	4.4	4.3	4.3	4.3
70. *	5.4	4.7	4.7	4.7	4.3	4.3
80. *	5.1	5.1	5.1	5.2	4.3	4.3
90. *	4.7	5.3	5.3	5.4	4.4	4.3
100. *	4.4	5.3	5.3	5.3	4.6	4.3
110. *	4.3	5.2	5.2	5.2	4.6	4.3
120. *	4.3	5.0	5.0	5.1	4.6	4.3
130. *	4.3	5.0	5.0	5.0	4.6	4.3
140. *	4.3	5.0	4.9	4.9	4.6	4.3
150. *	4.3	4.9	4.9	4.9	4.6	4.3

160. *	4.3	4.9	4.9	4.9	4.6	4.3
170. *	4.3	4.9	4.9	4.9	4.6	4.3
180. *	4.3	4.9	4.9	4.9	4.6	4.3
190. *	4.3	4.9	4.9	5.1	4.6	4.3
200. *	4.3	4.9	5.0	5.0	4.6	4.3
210. *	4.3	5.0	5.0	5.2	4.6	4.3
220. *	4.3	5.0	5.2	5.3	4.6	4.3
230. *	4.5	5.3	5.5	5.3	4.6	4.3
240. *	4.8	5.3	5.4	5.2	4.7	4.3
250. *	5.2	4.9	4.9	4.7	4.6	4.3
260. *	5.4	4.5	4.5	4.4	4.3	4.3
270. *	5.2	4.3	4.3	4.3	4.3	4.5
280. *	5.2	4.3	4.3	4.3	4.3	4.5
290. *	5.0	4.3	4.3	4.3	4.3	4.4
300. *	5.1	4.3	4.3	4.3	4.3	4.4
310. *	5.1	4.3	4.3	4.3	4.3	4.5
320. *	5.0	4.3	4.3	4.3	4.3	4.4
330. *	5.0	4.3	4.3	4.3	4.3	4.5
340. *	5.0	4.3	4.3	4.3	4.3	4.5
350. *	5.1	4.3	4.3	4.3	4.3	4.5
360. *	5.0	4.3	4.3	4.3	4.3	4.5
MAX *	5.5	5.3	5.5	5.4	4.7	4.5
DEGR. *	60	90	230	90	240	10

THE HIGHEST CONCENTRATION IS 5.6 PPM AT 240 DEGREES FROM REC8 .

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PAGE 5

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
RUN: INT #31 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:18
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
*	90	130	150	230	220	220	100	240	240	70	70	70	60	300	340	70	40	10	60	40
1 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7 *	.4	.2	.1	.0	.0	.0	.7	.5	.5	.5	.4	.4	.4	.0	.1	.3	.2	.1	.4	.0
8 *	.2	.1	.1	.0	.0	.0	.3	.1	.2	.7	.7	.7	.4	.0	.1	.4	.2	.1	.3	.0
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.0	.2	.1	.1	.0	.2	.1	.0	.0	.0	.0	.2	.0	.0	.0	.0	.3	.5
12 *	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.0	.4	.2	.1	.0	.2	.1	.0	.0	.0	.0	.2	.1	.0	.0	.0	.1	.4
14 *	.0	.0	.0	.1	.1	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15 *	.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.1	.1	.1	.0	.0
19 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
20 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21 *	.1	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.1	.0

1

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
RUN: INT #31 2020 BUILD FFQ
DATE: 09/06/2006 TIME: 13:18
POLLUTANT: 1 CO FILENAME: fr3120bd.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC21	REC22	REC23	REC24	REC25	REC26
	60	90	230	90	240	10
1 *	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0
4 *	.0	.0	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0
7 *	.1	.5	.0	.2	.2	.1
8 *	.1	.3	.0	.2	.1	.1
9 *	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0
11 *	.6	.0	.2	.2	.0	.0
12 *	.0	.0	.2	.0	.0	.0
13 *	.4	.1	.5	.5	.0	.0
14 *	.0	.0	.3	.0	.1	.0
15 *	.0	.0	.0	.0	.0	.0

16	*	.0	.0	.0	.0	.0	.0
17	*	.0	.0	.0	.0	.0	.0
18	*	.0	.0	.0	.0	.0	.0
19	*	.0	.0	.0	.0	.0	.0
20	*	.0	.0	.0	.0	.0	.0
21	*	.0	.1	.0	.0	.0	.0

SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 BD FFQ FR3120B
INT #31 2020 BUILD FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 AIRCRFT SB APP 3	5.3	3.7
2	R2 AIRCRFT SB APP 25	4.9	3.4
3	R3 AIRCRFT SB APP 50	4.7	3.3
4	R4 AIRCRFT NB DEP 3	5.2	3.6
5	R5 AIRCRFT NB DEP 25	5.0	3.5
6	R6 AIRCRFT NB DEP 50	4.8	3.3
7	R7 WILLOW WB APP 3	5.4	3.8
8	R8 WILLOW WB APP 25	5.6	3.9
9	R9 WILLOW WB APP 50	5.6	3.9
10	R10 WILLOW EB DEP 3	5.6	3.9
11	R11 WILLOW EB DEP 25	5.5	3.8
12	R12 WILLOW EB DEP 50	5.5	3.8
13	R13 AIRCRFT NB APP 3	5.2	3.6
14	R14 AIRCRFT NB APP 2	4.9	3.4
15	R15 AIRCRFT NB APP 5	4.7	3.3
16	R16 AIRCRFT SB DEP 3	5.2	3.6
17	R17 AIRCRFT SB DEP 2	4.8	3.3
18	R18 AIRCRFT SB DEP 5	4.6	3.2
19	R19 WILLOW EB APP 3	5.5	3.8
20	R20 WILLOW EB APP 2	5.3	3.7
21	R21 WILLOW EB APP 5	5.5	3.8
22	R22 WILLOW WB DEP 3	5.3	3.7
23	R23 WILLOW WB DEP 2	5.5	3.8
24	R24 WILLOW WB DEP 5	5.4	3.8
25	R25 HOUSE 1	4.7	3.3
26	R26 HOUSE 2	4.5	3.1

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 13:25
POLLUTANT: 1 CO FILENAME: fr3120nb.O71

SITE & METEOROLOGICAL VARIABLES

VS = .0 CM/S VD = .0 CM/S Z0 = 108. CM
U = 1.0 M/S CLAS = 4 (D) ATIM = 60. MINUTES MIXH = 1000. M AMB1 = 4.3 PPM

LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (FT) X1	Y1	X2	Y2	*	LENGTH (FT)	BRG (DEG)	TYPE	VOL (VPH)	SPEED (MPH)	EF (G/MI)	H (FT)	W (FT)	V/C	QUEUE (VEH)
1. F1AB AIRCRFT SB APP	*	2435.	5806.	2366.	6161.	*	362.	349.	AG	176.	30.0	8.0	.0	44.0		
2. F1BC AIRCRFT SB APP	*	2366.	6160.	2380.	6581.	*	421.	2.	AG	176.	30.0	8.0	.0	44.0		
3. F1CD AIRCRFT SB APP	*	2381.	6581.	2427.	6791.	*	215.	12.	AG	176.	30.0	8.0	.0	44.0		
4. F2AB AIRCRFT NB DEP	*	2458.	5811.	2396.	6159.	*	353.	350.	AG	889.	30.0	8.0	.0	44.0		
5. F2BC AIRCRFT NB DEP	*	2396.	6159.	2404.	6575.	*	416.	1.	AG	889.	30.0	8.0	.0	44.0		
6. F2CD AIRCRFT NB DEP	*	2404.	6574.	2450.	6778.	*	209.	13.	AG	889.	30.0	8.0	.0	44.0		
7. F3AB WILLOW WB APP	*	2445.	5821.	3442.	5988.	*	1011.	80.	AG	4612.	30.0	8.0	.0	44.0		
8. F4AB WILLOW EB DEP	*	2450.	5793.	3446.	5961.	*	1010.	80.	AG	1927.	30.0	8.0	.0	44.0		
9. F5AB AIRCRFT NB APP	*	2458.	5810.	2631.	4855.	*	971.	170.	AG	139.	30.0	8.0	.0	32.0		
10. F6AB AIRCRFT SB DEP	*	2435.	5807.	2604.	4849.	*	973.	170.	AG	35.	30.0	8.0	.0	44.0		
11. F7AB WILLOW EB APP	*	2448.	5792.	2196.	5733.	*	259.	257.	AG	2114.	30.0	8.0	.0	44.0		
12. F7BC WILLOW EB APP	*	2195.	5732.	1546.	5364.	*	746.	240.	AG	2114.	30.0	8.0	.0	44.0		
13. F8AB WILLOW WB DEP	*	2447.	5821.	2201.	5758.	*	254.	256.	AG	4190.	30.0	8.0	.0	44.0		
14. F8BC WILLOW WB DEP	*	2201.	5757.	1528.	5394.	*	764.	242.	AG	4190.	30.0	8.0	.0	44.0		
15. Q1AB AIRCRFT SB TR	*	2418.	5858.	2405.	5926.	*	70.	349.	AG	95.	.0	100.0	.0	12.0	.64	3.5
16. Q2AB AIRCRFT SB L	*	2430.	5861.	2426.	5879.	*	18.	349.	AG	95.	.0	100.0	.0	12.0	.17	.9
17. Q5AB AIRCRFT NB TLR	*	2463.	5762.	2476.	5694.	*	70.	169.	AG	95.	.0	100.0	.0	12.0	.64	3.5
18. Q7AB WILLOW EB TL	*	2390.	5797.	2317.	5776.	*	76.	254.	AG	21.	.0	100.0	.0	12.0	.56	3.8
19. FQ3AB WILLOW WB TR	*	2489.	5840.	3442.	5988.	*	964.	81.	AG	42.	99.0	100.0	.0	12.0		
20. FQ4AB WILLOW WB TL	*	2495.	5825.	3442.	5988.	*	961.	80.	AG	42.	99.0	100.0	.0	12.0		
21. FQ6AB WILLOW EB TR	*	2394.	5780.	2196.	5733.	*	204.	257.	AG	21.	99.0	100.0	.0	12.0		
22. FQ6BC WILLOW EB TR	*	2195.	5732.	1546.	5364.	*	746.	240.	AG	21.	99.0	100.0	.0	12.0		

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 13:25
POLLUTANT: 1 CO FILENAME: fr3120nb.O71

ADDITIONAL QUEUE LINK PARAMETERS

LINK DESCRIPTION	CYCLE LENGTH (SEC)	RED TIME (SEC)	CLEARANCE LOST TIME (SEC)	APPROACH VOL (VPH)	SATURATION FLOW RATE (VPH)	IDLE EM FAC (gm/hr)	SIGNAL TYPE	ARRIVAL RATE	NO.OF LANES
15. Q1AB AIRCRFT SB TR	110	90	3.0	139	1600	43.08	1	3	1
16. Q2AB AIRCRFT SB L	110	90	3.0	37	1600	43.08	1	3	1
17. Q5AB AIRCRFT NB TLR	110	90	3.0	139	1600	43.08	1	3	1
18. Q7AB WILLOW EB TL	110	20	3.0	691	1600	43.08	1	3	1

RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (FT) X	Y	Z
1. R1 AIRCRFT SB APP 3	2394.6	5866.1	6.0
2. R2 AIRCRFT SB APP 25	2382.7	5940.9	6.0
3. R3 AIRCRFT SB APP 50	2365.6	6013.8	6.0
4. R4 AIRCRFT NB DEP 3	2470.6	5880.1	6.0
5. R5 AIRCRFT NB DEP 25	2456.1	5950.5	6.0
6. R6 AIRCRFT NB DEP 50	2442.9	6023.8	6.0
7. R7 WILLOW WB APP 3	2493.3	5862.8	6.0
8. R8 WILLOW WB APP 25	2564.0	5873.9	6.0
9. R9 WILLOW WB APP 50	2637.8	5887.5	6.0
10. R10 WILLOW EB DEP 3	2508.7	5781.9	6.0
11. R11 WILLOW EB DEP 25	2582.6	5791.9	6.0
12. R12 WILLOW EB DEP 50	2656.4	5804.2	6.0
13. R13 AIRCRFT NB APP 3	2496.9	5757.2	6.0
14. R14 AIRCRFT NB APP 2	2508.7	5686.4	6.0
15. R15 AIRCRFT NB APP 5	2523.9	5605.8	6.0
16. R16 AIRCRFT SB DEP 3	2418.0	5745.4	6.0
17. R17 AIRCRFT SB DEP 2	2429.9	5674.8	6.0
18. R18 AIRCRFT SB DEP 5	2444.9	5600.4	6.0
19. R19 WILLOW EB APP 3	2390.6	5754.4	6.0
20. R20 WILLOW EB APP 2	2321.5	5738.6	6.0
21. R21 WILLOW EB APP 5	2238.7	5719.2	6.0
22. R22 WILLOW WB DEP 3	2369.3	5841.1	6.0
23. R23 WILLOW WB DEP 2	2307.4	5821.5	6.0
24. R24 WILLOW WB DEP 5	2222.5	5797.7	6.0
25. R25 HOUSE 1	2881.3	6023.6	6.0
26. R26 HOUSE 2	2702.9	5488.3	6.0

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JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ

POLLUTANT: 1 CO FILENAME: fr3120nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)	CONCENTRATION (PPM) REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
10.	4.8	4.7	4.6	4.3	4.4	4.4	4.3	4.3	4.3	5.8	5.8	5.8	5.4	4.9	4.7	5.6	5.0	4.9	5.7	5.7
20.	4.8	4.6	4.6	4.3	4.3	4.3	4.3	4.3	4.3	5.9	5.8	5.8	5.4	4.9	4.7	5.6	5.3	4.8	5.8	5.8
30.	4.8	4.6	4.6	4.3	4.3	4.3	4.3	4.3	4.3	6.0	6.0	6.0	5.5	4.9	4.7	5.6	5.0	4.7	5.9	5.8
40.	4.7	4.5	4.5	4.3	4.3	4.3	4.3	4.3	4.3	6.1	6.0	6.0	5.6	5.0	4.8	5.6	5.1	4.8	6.0	6.1
50.	4.7	4.5	4.5	4.3	4.3	4.3	4.3	4.3	4.3	6.3	6.2	6.2	5.8	5.0	4.9	5.6	5.1	4.9	6.2	6.2
60.	4.8	4.5	4.4	4.3	4.3	4.3	4.4	4.4	4.4	6.5	6.4	6.4	5.9	5.0	4.8	6.0	5.2	4.8	6.4	6.4
70.	5.0	4.5	4.4	4.5	4.3	4.3	4.8	4.8	4.8	6.6	6.5	6.4	5.8	4.9	4.6	5.9	5.0	4.6	6.4	6.4
80.	5.8	4.8	4.5	5.2	4.6	4.4	5.8	5.8	5.7	6.0	5.9	5.9	5.2	4.6	4.4	5.3	4.6	4.4	5.9	5.7
90.	6.2	5.0	4.7	5.8	4.8	4.6	6.5	6.5	6.4	5.1	4.9	4.9	4.5	4.3	4.3	4.8	4.3	4.3	4.9	4.9
100.	6.4	5.3	4.9	5.9	5.1	4.8	6.5	6.5	6.5	4.5	4.5	4.4	4.3	4.3	4.3	4.4	4.3	4.3	4.6	4.4
110.	5.9	5.3	5.0	5.8	5.0	4.8	6.3	6.3	6.3	4.4	4.4	4.4	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.4
120.	5.7	5.3	5.0	5.7	5.0	4.8	6.1	6.1	6.0	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.4	4.4
130.	5.5	5.5	5.0	5.7	5.0	4.8	5.9	6.0	5.9	4.4	4.3	4.3	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3
140.	5.3	5.4	5.0	5.5	5.0	4.7	5.9	5.9	5.9	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
150.	5.4	5.4	5.0	5.4	4.9	4.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
160.	5.2	5.3	5.1	5.4	5.0	4.8	5.8	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
170.	5.3	4.9	4.8	5.4	5.1	5.1	5.7	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
180.	5.3	4.9	4.7	5.6	5.3	5.2	5.7	5.8	5.8	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
190.	5.3	4.9	4.7	5.5	5.2	5.1	5.7	5.8	5.8	4.3	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
200.	5.3	4.9	4.8	5.6	5.4	5.1	5.9	5.9	5.9	4.4	4.3	4.3	4.4	4.3	4.3	4.3	4.3	4.3	4.3	4.3
210.	5.4	5.1	4.9	5.7	5.3	5.1	6.0	5.9	5.9	4.5	4.3	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.3	4.3
220.	5.6	5.1	4.9	5.7	5.5	5.2	6.1	6.2	6.0	4.5	4.3	4.3	4.5	4.3	4.3	4.3	4.3	4.3	4.4	4.4
230.	5.7	5.2	4.7	6.0	5.5	5.0	6.4	6.4	6.3	4.5	4.4	4.4	4.5	4.3	4.3	4.3	4.3	4.3	4.5	4.6
240.	5.6	4.8	4.6	6.1	5.2	4.8	6.8	6.6	6.7	4.9	4.7	4.6	4.7	4.3	4.3	4.6	4.4	4.3	4.9	4.9
250.	5.2	4.4	4.3	5.7	4.8	4.6	6.4	6.5	6.4	5.6	5.1	5.1	5.1	4.6	4.4	5.0	4.6	4.5	5.6	5.6
260.	4.5	4.3	4.3	5.0	4.5	4.5	5.5	5.6	5.8	5.8	5.7	5.8	5.5	4.8	4.6	5.5	4.8	4.6	6.0	5.9
270.	4.3	4.3	4.3	4.7	4.5	4.5	4.8	4.7	4.7	6.2	6.1	6.0	5.5	4.9	4.7	5.6	4.9	4.8	6.1	6.0
280.	4.3	4.3	4.3	4.6	4.5	4.5	4.6	4.4	4.4	6.1	6.0	6.2	5.5	5.1	4.6	5.5	4.9	4.7	6.1	6.1
290.	4.3	4.3	4.3	4.6	4.5	4.5	4.6	4.4	4.4	6.0	6.1	6.2	5.4	5.0	4.8	5.5	5.0	4.6	5.9	5.9
300.	4.3	4.3	4.3	4.7	4.6	4.6	4.6	4.4	4.4	6.0	6.1	6.1	5.5	5.1	4.7	5.5	4.9	4.7	5.9	5.8

310. *	4.3	4.3	4.3	4.7	4.6	4.6	4.5	4.4	4.4	5.8	6.0	6.1	5.4	5.1	4.7	5.4	4.9	4.7	5.7	5.7
320. *	4.3	4.3	4.3	4.6	4.6	4.6	4.5	4.4	4.3	6.0	5.9	5.8	5.4	5.1	4.7	5.3	4.9	4.8	5.6	5.6
330. *	4.3	4.3	4.3	4.7	4.7	4.6	4.5	4.4	4.3	5.8	5.9	5.8	5.5	5.1	4.8	5.3	4.9	4.8	5.5	5.5
340. *	4.3	4.3	4.3	4.6	4.7	4.7	4.5	4.4	4.3	5.8	5.8	5.8	5.6	5.1	5.0	5.3	4.9	4.8	5.5	5.5
350. *	4.4	4.4	4.3	4.7	4.7	4.6	4.5	4.3	4.3	5.7	5.8	5.8	5.5	5.0	4.8	5.4	4.9	4.8	5.6	5.7
360. *	4.7	4.6	4.4	4.4	4.5	4.5	4.3	4.3	4.3	5.7	5.8	5.8	5.5	5.0	4.7	5.7	5.0	4.9	5.6	5.5
MAX *	6.4	5.5	5.1	6.1	5.5	5.2	6.8	6.6	6.7	6.6	6.5	6.4	5.9	5.1	5.0	6.0	5.3	4.9	6.4	6.4
DEGR. *	100	130	160	240	220	180	240	240	240	70	70	60	60	280	340	60	20	10	60	60

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JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ
POLLUTANT: 1 CO FILENAME: fr3120nb.O71

MODEL RESULTS

REMARKS: IN SEARCH OF THE ANGLE CORRESPONDING TO THE MAXIMUM CONCENTRATION, ONLY THE FIRST ANGLE, OF THE ANGLES WITH SAME MAXIMUM CONCENTRATIONS, IS INDICATED AS MAXIMUM.

WIND ANGLE RANGE: 10.- 0.

WIND ANGLE (DEGR)*	CONCENTRATION (PPM) REC21	REC22	REC23	REC24	REC25	REC26
10. *	5.6	4.5	4.4	4.3	4.3	4.6
20. *	5.7	4.5	4.4	4.3	4.3	4.6
30. *	6.0	4.5	4.4	4.3	4.3	4.6
40. *	6.1	4.5	4.4	4.4	4.3	4.6
50. *	6.3	4.5	4.5	4.4	4.3	4.6
60. *	6.5	4.6	4.6	4.6	4.3	4.5
70. *	6.4	5.0	5.1	5.1	4.3	4.3
80. *	5.7	5.9	6.1	6.0	4.4	4.3
90. *	4.8	6.5	6.4	6.4	4.7	4.3
100. *	4.4	6.2	6.1	6.2	4.8	4.3
110. *	4.4	6.1	5.9	5.9	5.0	4.3
120. *	4.3	5.8	5.6	5.8	5.0	4.3
130. *	4.3	5.6	5.6	5.7	5.0	4.3
140. *	4.3	5.6	5.5	5.6	5.0	4.3
150. *	4.3	5.4	5.5	5.6	4.9	4.3
160. *	4.3	5.4	5.5	5.5	4.9	4.3

170. *	4.3	5.4	5.5	5.5	4.9	4.3
180. *	4.3	5.4	5.5	5.6	4.9	4.3
190. *	4.3	5.5	5.5	5.7	4.9	4.3
200. *	4.3	5.5	5.6	5.8	5.0	4.3
210. *	4.3	5.6	5.7	6.0	5.0	4.3
220. *	4.3	5.8	6.0	6.3	5.0	4.3
230. *	4.7	6.1	6.4	6.5	5.0	4.3
240. *	5.4	6.3	6.3	6.1	5.2	4.3
250. *	6.1	5.6	5.5	5.1	5.0	4.3
260. *	6.3	4.8	4.7	4.5	4.6	4.4
270. *	6.0	4.4	4.3	4.3	4.3	4.5
280. *	5.8	4.3	4.3	4.3	4.3	4.6
290. *	5.7	4.3	4.3	4.3	4.3	4.5
300. *	5.7	4.3	4.3	4.3	4.3	4.6
310. *	5.6	4.3	4.3	4.3	4.3	4.5
320. *	5.6	4.3	4.3	4.3	4.3	4.6
330. *	5.5	4.3	4.3	4.3	4.3	4.6
340. *	5.5	4.3	4.3	4.3	4.3	4.6
350. *	5.7	4.3	4.3	4.3	4.3	4.6
360. *	5.6	4.5	4.3	4.3	4.3	4.6
MAX *	6.5	6.5	6.4	6.5	5.2	4.6
DEGR. *	60	90	90	230	240	10

THE HIGHEST CONCENTRATION IS 6.8 PPM AT 240 DEGREES FROM REC7 .

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JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 13:25
POLLUTANT: 1 CO FILENAME: fr3120nb.O7I

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)

LINK # *	REC1	REC2	REC3	REC4	REC5	REC6	REC7	REC8	REC9	REC10	REC11	REC12	REC13	REC14	REC15	REC16	REC17	REC18	REC19	REC20
	100	130	160	240	220	180	240	240	240	70	70	60	60	280	340	60	20	10	60	60
1 *	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4 *	.2	.2	.1	.2	.3	.3	.2	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.1	.0	.0
5 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

7 *	1.1	.5	.1	.0	.0	.2	.6	1.1	1.3	1.1	1.1	1.1	.9	.0	.2	.9	.4	.2	.9	.6
8 *	.3	.2	.1	.0	.0	.1	.0	.2	.3	1.0	.9	.8	.5	.0	.1	.5	.2	.1	.4	.2
9 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11 *	.0	.0	.1	.2	.2	.1	.3	.2	.1	.0	.0	.0	.0	.2	.1	.1	.1	.0	.5	.8
12 *	.0	.0	.0	.2	.1	.0	.2	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
13 *	.0	.0	.2	.8	.4	.2	.9	.4	.2	.0	.0	.0	.0	.2	.1	.0	.1	.1	.1	.5
14 *	.0	.0	.0	.4	.1	.0	.3	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
15 *	.2	.2	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16 *	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.1	.1	.0	.0
18 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19 *	.1	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.1	.0
20 *	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.1	.0	.0	.1	.0
21 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22 *	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

1

JOB: RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
RUN: INT #31 2020 NO BUILD FFQ
DATE: 09/06/2006 TIME: 13:25
POLLUTANT: 1 CO FILENAME: fr3120nb.O71

RECEPTOR - LINK MATRIX FOR THE ANGLE PRODUCING
THE MAXIMUM CONCENTRATION FOR EACH RECEPTOR

* CO/LINK (PPM)
* ANGLE (DEGREES)
* REC21 REC22 REC23 REC24 REC25 REC26

LINK # *	60	90	90	230	240	10
1 *	.0	.0	.0	.0	.0	.0
2 *	.0	.0	.0	.0	.0	.0
3 *	.0	.0	.0	.0	.0	.0
4 *	.0	.1	.0	.0	.0	.0
5 *	.0	.0	.0	.0	.0	.0
6 *	.0	.0	.0	.0	.0	.0
7 *	.3	1.2	.8	.0	.4	.2
8 *	.1	.4	.3	.0	.1	.1
9 *	.0	.0	.0	.0	.0	.0
10 *	.0	.0	.0	.0	.0	.0
11 *	.9	.0	.1	.0	.1	.0
12 *	.0	.0	.0	.5	.1	.0
13 *	.8	.3	.8	.3	.1	.0
14 *	.0	.0	.0	1.4	.1	.0
15 *	.0	.0	.0	.0	.0	.0

16	*	.0	.0	.0	.0	.0	.0
17	*	.0	.0	.0	.0	.0	.0
18	*	.0	.0	.0	.0	.0	.0
19	*	.0	.1	.0	.0	.0	.0
20	*	.0	.1	.1	.0	.0	.0
21	*	.1	.0	.0	.0	.0	.0
22	*	.0	.0	.0	.0	.0	.0

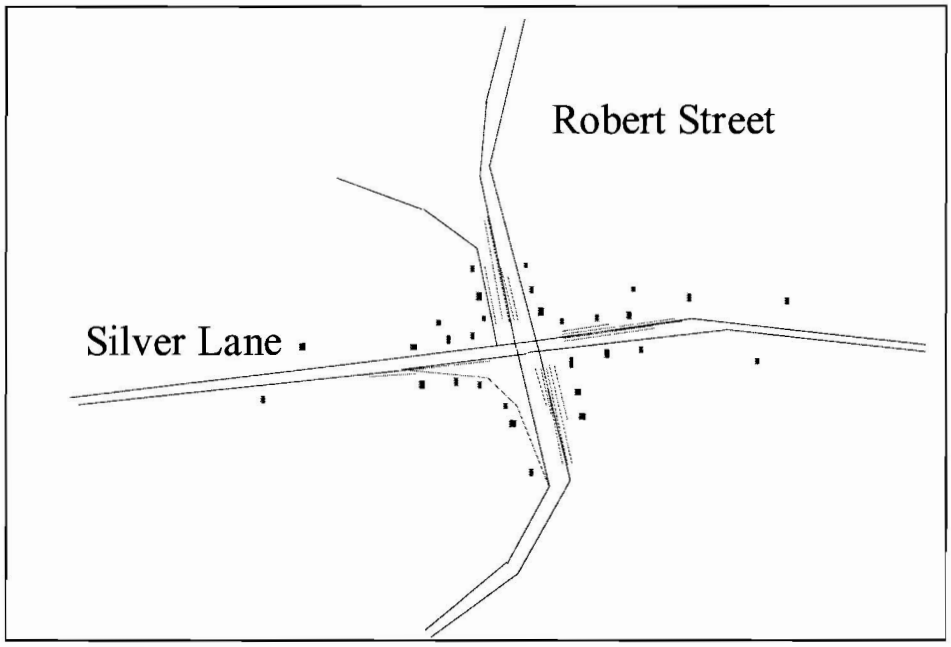
SUMMARY OF 1-HOUR AND 8-HOUR CONCENTRATIONS BY RECEPTOR

RENTSCHLER FIELD EIE INT #31 WILLOW STREET AND AIRCRAFT ROAD 2020 NB FFQ FR3120N
INT #31 2020 NO BUILD FFQ

R#	RECEPTOR NAME	MAX 1-HR	MAX 8-HR
1	R1 AIRCRFT SB APP 3	6.4	4.5
2	R2 AIRCRFT SB APP 25	5.5	3.8
3	R3 AIRCRFT SB APP 50	5.1	3.6
4	R4 AIRCRFT NB DEP 3	6.1	4.3
5	R5 AIRCRFT NB DEP 25	5.5	3.8
6	R6 AIRCRFT NB DEP 50	5.2	3.6
7	R7 WILLOW WB APP 3	6.8	4.8
8	R8 WILLOW WB APP 25	6.6	4.6
9	R9 WILLOW WB APP 50	6.7	4.7
10	R10 WILLOW EB DEP 3	6.6	4.6
11	R11 WILLOW EB DEP 25	6.5	4.5
12	R12 WILLOW EB DEP 50	6.4	4.5
13	R13 AIRCRFT NB APP 3	5.9	4.1
14	R14 AIRCRFT NB APP 2	5.1	3.6
15	R15 AIRCRFT NB APP 5	5.0	3.5
16	R16 AIRCRFT SB DEP 3	6.0	4.2
17	R17 AIRCRFT SB DEP 2	5.3	3.7
18	R18 AIRCRFT SB DEP 5	4.9	3.4
19	R19 WILLOW EB APP 3	6.4	4.5
20	R20 WILLOW EB APP 2	6.4	4.5
21	R21 WILLOW EB APP 5	6.5	4.5
22	R22 WILLOW WB DEP 3	6.5	4.5
23	R23 WILLOW WB DEP 2	6.4	4.5
24	R24 WILLOW WB DEP 5	6.5	4.5
25	R25 HOUSE 1	5.2	3.6
26	R26 HOUSE 2	4.6	3.2

Intersection Layout Diagrams

Intersection 7 – No Build
Intersection 7 – Build
Intersection 8 – No Build
Intersection 8 – Build
Intersectin 27 – No Build
Intersection 27 – Build
Intersectin 31 – All Scenarios



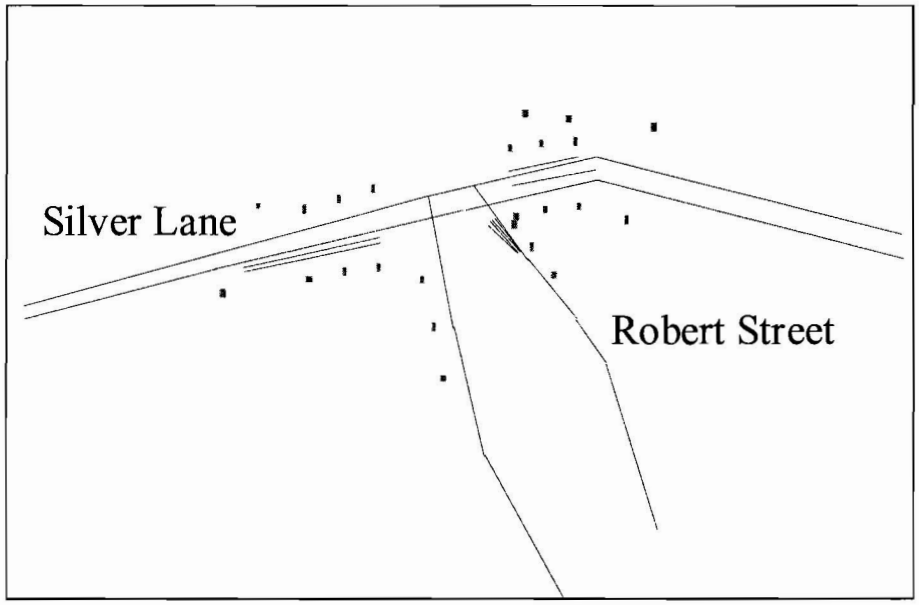
N

Receptor Location

Modeled Roadway Link

Approx. Scale: 0 150 feet

Intersection 7 - No Build



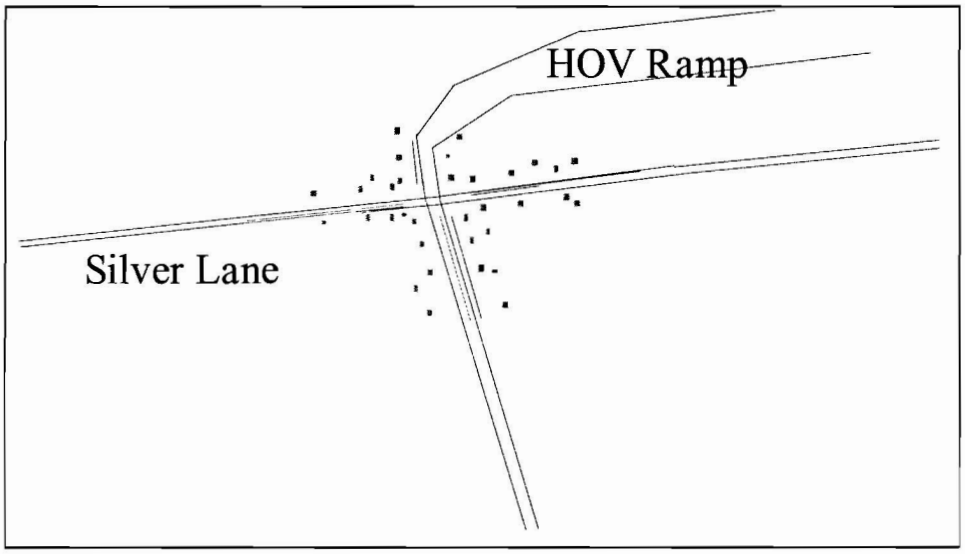
N

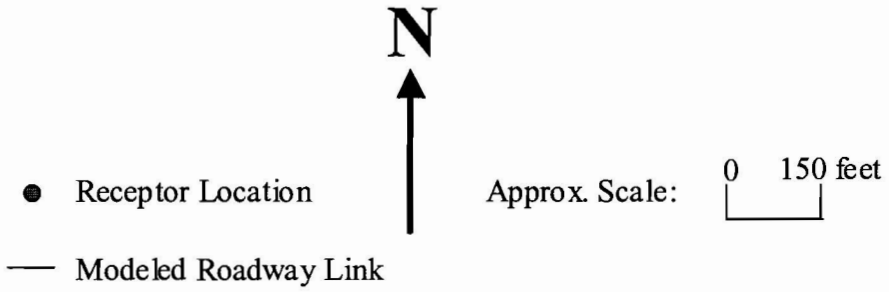
Receptor Location

Modeled Roadway Link

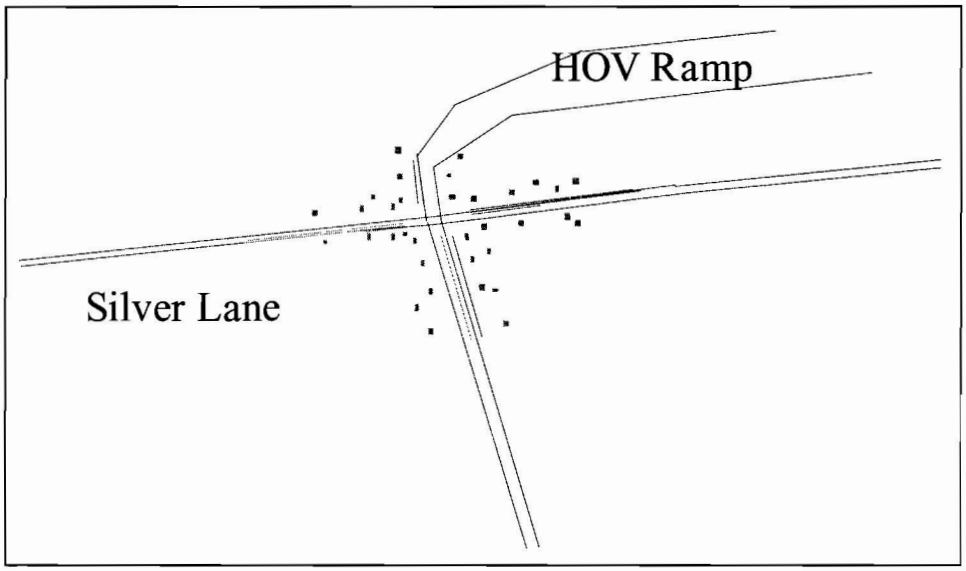
Approx. Scale: 0 150 feet

Intersection 7 - Build





Intersection 8 – No Build



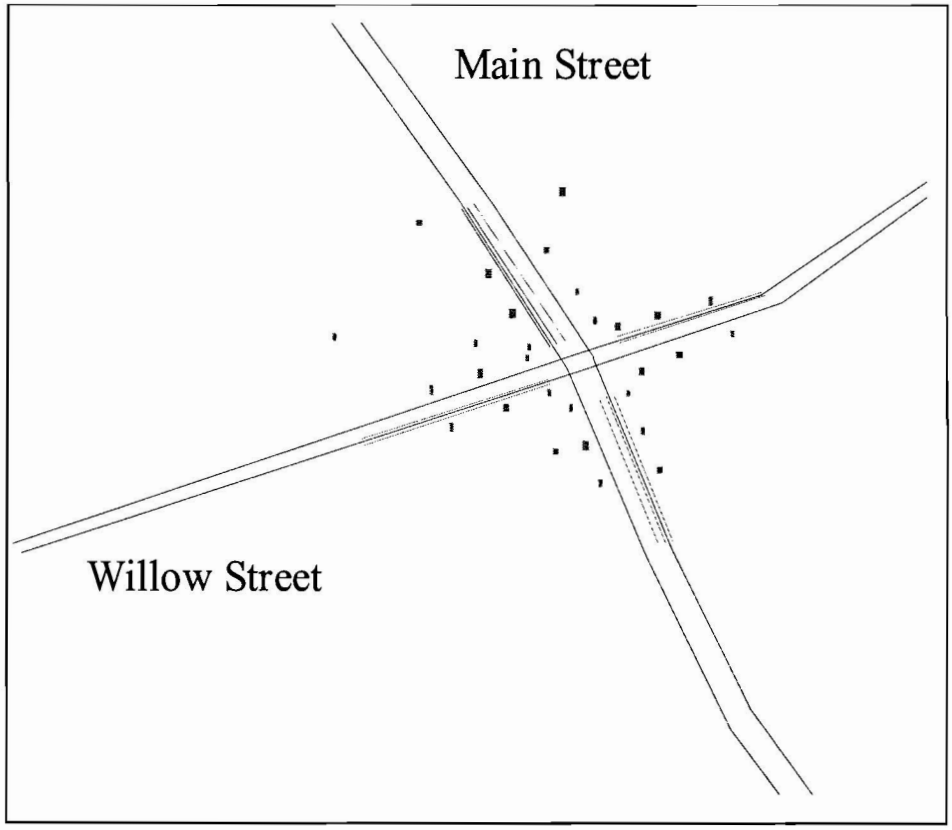
N

Receptor Location

Modeled Roadway Link

Approx. Scale: 0 150 feet

Intersection 8 – Build



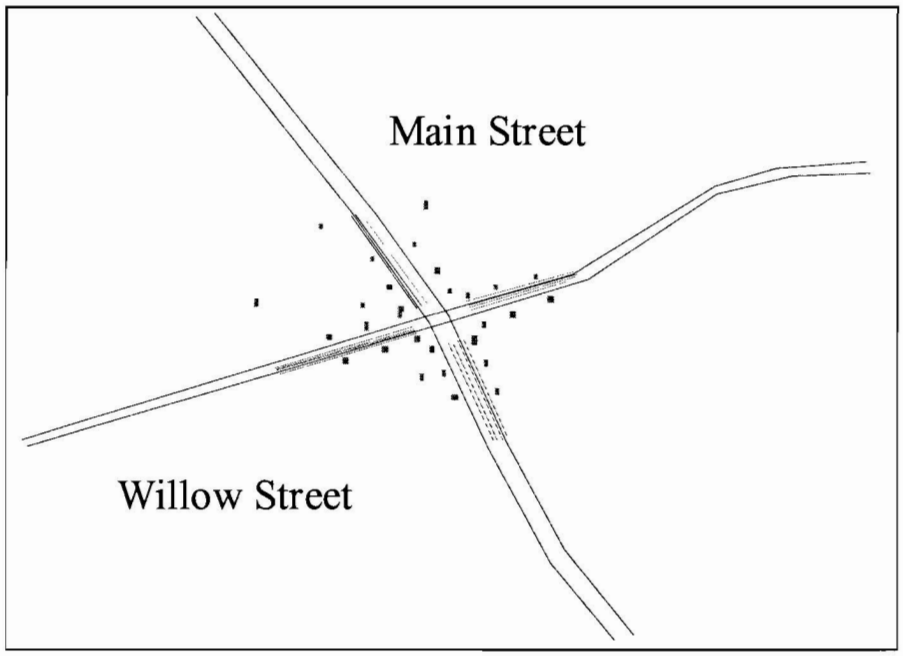
N

Receptor Location

Modeled Roadway Link

Approx. Scale: 0 150 feet

Intersection 27 – No Build



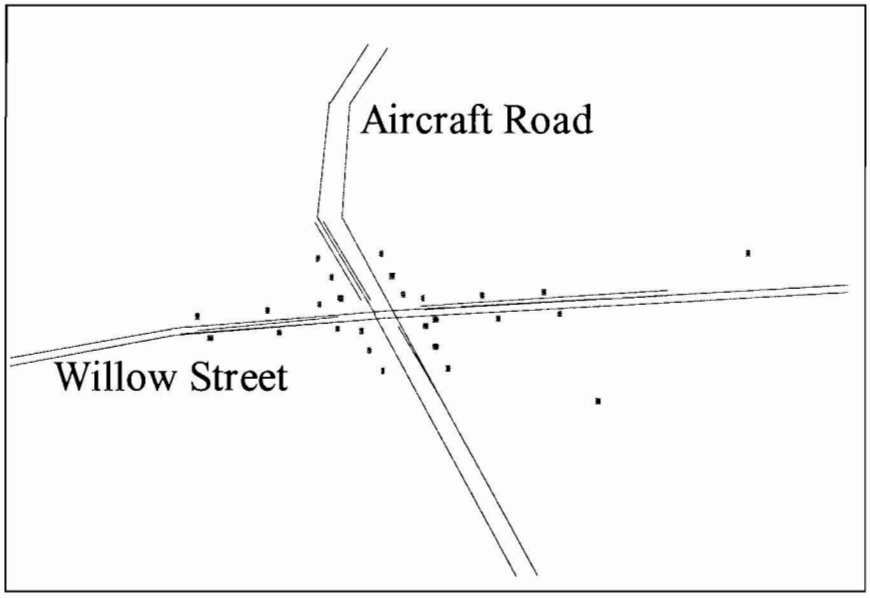
N

Receptor Location

Modeled Roadway Link

Approx. Scale: 0 150 feet

Intersection 27 – Build



N

Receptor Location

Modeled Roadway Link

Approx. Scale: 0 150 feet

Intersection 31 – All Scenarios