

Appendix F

URBEMIS—Air Quality Modeling

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Urbemis 2007 Version 9.2.4

Combined Summer Emissions Reports (Pounds/Day)

File Name: G:\San Diego\10_Staff\Air Quality Staff\Union City\redo june 2010\URBEMIS\Union City TOD_July2010 redo.urb924

Project Name: Union City Mixed-Use Project TOD

Project Location: Alameda County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	45.40	12.69	10.18	0.00	0.04	0.04	16,105.79
TOTALS (lbs/day, mitigated)	45.40	12.69	10.18	0.00	0.04	0.04	16,105.79
Percent Reduction	0.00	0.00	0.00	NaN	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	20.75	16.15	175.08	0.30	53.15	10.13	30,756.52
TOTALS (lbs/day, mitigated)	19.42	14.67	158.73	0.27	48.40	9.23	27,985.43
Percent Reduction	6.41	9.16	9.34	10.00	8.94	8.88	9.01

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	66.15	28.84	185.26	0.30	53.19	10.17	46,862.31
TOTALS (lbs/day, mitigated)	64.82	27.36	168.91	0.27	48.44	9.27	44,091.22
Percent Reduction	2.01	5.13	8.83	10.00	8.93	8.85	5.91

Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.97	12.63	5.54	0.00	0.02	0.02	16,097.36
Hearth - No Summer Emissions							
Landscape	0.37	0.06	4.64	0.00	0.02	0.02	8.43
Consumer Products	37.27						
Architectural Coatings	6.79						
TOTALS (lbs/day, unmitigated)	45.40	12.69	10.18	0.00	0.04	0.04	16,105.79

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.97	12.63	5.54	0.00	0.02	0.02	16,097.36
Hearth - No Summer Emissions							
Landscape	0.37	0.06	4.64	0.00	0.02	0.02	8.43
Consumer Products	37.27						
Architectural Coatings	6.79						
TOTALS (lbs/day, mitigated)	45.40	12.69	10.18	0.00	0.04	0.04	16,105.79

Area Source Changes to Defaults

Percent residential using natural gas changed from 60% to 100%

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 100%

The number of persons per household for consumer product use changed from 2.861 persons to 2.24 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	14.22	8.12	92.06	0.15	25.33	4.85	14,939.82
Strip mall	6.33	7.83	80.89	0.15	27.12	5.15	15,419.19
General office building	0.20	0.20	2.13	0.00	0.70	0.13	397.51
TOTALS (lbs/day, unmitigated)	20.75	16.15	175.08	0.30	53.15	10.13	30,756.52

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Summer Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	13.20	7.04	79.86	0.13	21.98	4.21	12,959.57
Strip mall	6.03	7.44	76.84	0.14	25.76	4.89	14,648.23
General office building	0.19	0.19	2.03	0.00	0.66	0.13	377.63
TOTALS (lbs/day, mitigated)	19.42	14.67	158.73	0.27	48.40	9.23	27,985.43

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 85 Season: Summer

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	60.81	3.61	dwelling units	973.00	3,512.53	14,725.23
Strip mall		56.99	1000 sq ft	37.50	2,137.13	15,799.77
General office building		8.06	1000 sq ft	6.20	49.97	404.90
					5,699.63	30,929.90

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.4	0.0	100.0	0.0
Light Truck < 3750 lbs	12.2	0.0	99.2	0.8
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0
Med Truck 5751-8500 lbs	6.4	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.8	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	37.9	62.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.0	0.0	0.0	0.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	5.4	3.6	3.6	9.5	7.4	7.4
Rural Trip Length (miles)	8.9	3.5	3.8	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5

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Urbemis 2007 Version 9.2.4

Combined Winter Emissions Reports (Pounds/Day)

File Name: G:\San Diego\10_Staff\Air Quality Staff\Union City\redo june 2010\URBEMIS\Union City TOD_July2010 redo.urb924

Project Name: Union City Mixed-Use Project TOD

Project Location: Alameda County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	45.34	18.01	7.83	0.03	0.45	0.45	22,965.60
TOTALS (lbs/day, mitigated)	45.34	18.01	7.83	0.03	0.45	0.45	22,965.60
Percent Reduction	0.00	0.00	0.00	0.00	0.00	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	16.68	23.67	187.42	0.26	53.15	10.13	26,596.45
TOTALS (lbs/day, mitigated)	15.11	21.52	169.72	0.24	48.40	9.23	24,196.86
Percent Reduction	9.41	9.08	9.44	7.69	8.94	8.88	9.02

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (lbs/day, unmitigated)	62.02	41.68	195.25	0.29	53.60	10.58	49,562.05
TOTALS (lbs/day, mitigated)	60.45	39.53	177.55	0.27	48.85	9.68	47,162.46
Percent Reduction	2.53	5.16	9.07	6.90	8.86	8.51	4.84

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.97	12.63	5.54	0.00	0.02	0.02	16,097.36
Hearth	0.31	5.38	2.29	0.03	0.43	0.43	6,868.24
Landscaping - No Winter Emissions							
Consumer Products	37.27						
Architectural Coatings	6.79						
TOTALS (lbs/day, unmitigated)	45.34	18.01	7.83	0.03	0.45	0.45	22,965.60

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.97	12.63	5.54	0.00	0.02	0.02	16,097.36
Hearth	0.31	5.38	2.29	0.03	0.43	0.43	6,868.24
Landscaping - No Winter Emissions							
Consumer Products	37.27						
Architectural Coatings	6.79						
TOTALS (lbs/day, mitigated)	45.34	18.01	7.83	0.03	0.45	0.45	22,965.60

Area Source Changes to Defaults

Percent residential using natural gas changed from 60% to 100%

Percentage of residences with wood stoves changed from 35% to 0%

Percentage of residences with wood fireplaces changed from 10% to 0%

Percentage of residences with natural gas fireplaces changed from 55% to 100%

The number of persons per household for consumer product use changed from 2.861 persons to 2.24 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	9.04	11.87	100.87	0.13	25.33	4.85	12,959.28
Strip mall	7.45	11.51	84.38	0.13	27.12	5.15	13,294.12
General office building	0.19	0.29	2.17	0.00	0.70	0.13	343.05
TOTALS (lbs/day, unmitigated)	16.68	23.67	187.42	0.26	53.15	10.13	26,596.45

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Winter Pounds Per Day, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	7.85	10.30	87.50	0.11	21.98	4.21	11,241.55
Strip mall	7.08	10.94	80.16	0.13	25.76	4.89	12,629.41
General office building	0.18	0.28	2.06	0.00	0.66	0.13	325.90
TOTALS (lbs/day, mitigated)	15.11	21.52	169.72	0.24	48.40	9.23	24,196.86

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Temperature (F): 40 Season: Winter

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	60.81	3.61	dwelling units	973.00	3,512.53	14,725.23
Strip mall		56.99	1000 sq ft	37.50	2,137.13	15,799.77
General office building		8.06	1000 sq ft	6.20	49.97	404.90
					5,699.63	30,929.90

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.4	0.0	100.0	0.0
Light Truck < 3750 lbs	12.2	0.0	99.2	0.8
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0
Med Truck 5751-8500 lbs	6.4	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.8	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	37.9	62.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.0	0.0	0.0	0.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	5.4	3.6	3.6	9.5	7.4	7.4
Rural Trip Length (miles)	8.9	3.5	3.8	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5

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Urbemis 2007 Version 9.2.4

Combined Annual Emissions Reports (Tons/Year)

File Name: G:\San Diego\10_Staff\Air Quality Staff\Union City\redo june 2010\URBEMIS\Union City TOD_July2010 redo.urb924

Project Name: Union City Mixed-Use Project TOD

Project Location: Alameda County

On-Road Vehicle Emissions Based on: Version : Emfac2007 V2.3 Nov 1 2006

Off-Road Vehicle Emissions Based on: OFFROAD2007

Summary Report:

AREA SOURCE EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	8.25	2.32	1.43	0.00	0.00	0.00	2,941.96
TOTALS (tons/year, mitigated)	8.25	2.32	1.43	0.00	0.00	0.00	2,941.96
Percent Reduction	0.00	0.00	0.00	NaN	NaN	NaN	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	3.54	3.40	32.70	0.06	9.70	1.85	5,359.99
TOTALS (tons/year, mitigated)	3.27	3.09	29.64	0.05	8.83	1.68	4,876.87
Percent Reduction	7.63	9.12	9.36	16.67	8.97	9.19	9.01

SUM OF AREA SOURCE AND OPERATIONAL EMISSION ESTIMATES

	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
TOTALS (tons/year, unmitigated)	11.79	5.72	34.13	0.06	9.70	1.85	8,301.95
TOTALS (tons/year, mitigated)	11.52	5.41	31.07	0.05	8.83	1.68	7,818.83
Percent Reduction	2.29	5.42	8.97	16.67	8.97	9.19	5.82

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Area Source Unmitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.18	2.31	1.01	0.00	0.00	0.00	2,937.77
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.43
Landscape	0.03	0.01	0.42	0.00	0.00	0.00	0.76
Consumer Products	6.80						
Architectural Coatings	1.24						
TOTALS (tons/year, unmitigated)	8.25	2.32	1.43	0.00	0.00	0.00	2,941.96

Area Source Mitigated Detail Report:

AREA SOURCE EMISSION ESTIMATES Annual Tons Per Year, Mitigated

<u>Source</u>	<u>ROG</u>	<u>NOx</u>	<u>CO</u>	<u>SO2</u>	<u>PM10</u>	<u>PM2.5</u>	<u>CO2</u>
Natural Gas	0.18	2.31	1.01	0.00	0.00	0.00	2,937.77
Hearth	0.00	0.00	0.00	0.00	0.00	0.00	3.43
Landscape	0.03	0.01	0.42	0.00	0.00	0.00	0.76
Consumer Products	6.80						
Architectural Coatings	1.24						
TOTALS (tons/year, mitigated)	8.25	2.32	1.43	0.00	0.00	0.00	2,941.96

Area Source Changes to Defaults

- Percent residential using natural gas changed from 60% to 100%
- Percentage of residences with wood stoves changed from 35% to 0%
- Percentage of residences with wood fireplaces changed from 10% to 0%
- Percentage of residences with natural gas fireplaces changed from 55% to 100%
- The number of persons per household for consumer product use changed from 2.861 persons to 2.24 persons

Operational Unmitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Unmitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	2.28	1.71	17.34	0.03	4.62	0.89	2,606.03
Strip mall	1.22	1.65	14.97	0.03	4.95	0.94	2,684.73
General office building	0.04	0.04	0.39	0.00	0.13	0.02	69.23
TOTALS (tons/year, unmitigated)	3.54	3.40	32.70	0.06	9.70	1.85	5,359.99

Operational Mitigated Detail Report:

OPERATIONAL EMISSION ESTIMATES Annual Tons Per Year, Mitigated

Source	ROG	NOX	CO	SO2	PM10	PM25	CO2
Condo/townhouse general	2.08	1.48	15.04	0.02	4.01	0.77	2,260.61
Strip mall	1.16	1.57	14.23	0.03	4.70	0.89	2,550.49
General office building	0.03	0.04	0.37	0.00	0.12	0.02	65.77
TOTALS (tons/year, mitigated)	3.27	3.09	29.64	0.05	8.83	1.68	4,876.87

Operational Settings:

Does not include correction for passby trips

Does not include double counting adjustment for internal trips

Analysis Year: 2020 Season: Annual

Emfac: Version : Emfac2007 V2.3 Nov 1 2006

Summary of Land Uses

Land Use Type	Acreage	Trip Rate	Unit Type	No. Units	Total Trips	Total VMT
Condo/townhouse general	60.81	3.61	dwelling units	973.00	3,512.53	14,725.23
Strip mall		56.99	1000 sq ft	37.50	2,137.13	15,799.77
General office building		8.06	1000 sq ft	6.20	49.97	404.90
					5,699.63	30,929.90

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.4	0.0	100.0	0.0
Light Truck < 3750 lbs	12.2	0.0	99.2	0.8
Light Truck 3751-5750 lbs	19.9	0.0	100.0	0.0
Med Truck 5751-8500 lbs	6.4	0.0	100.0	0.0
Lite-Heavy Truck 8501-10,000 lbs	0.8	0.0	75.0	25.0
Lite-Heavy Truck 10,001-14,000 lbs	0.6	0.0	50.0	50.0
Med-Heavy Truck 14,001-33,000 lbs	1.3	0.0	23.1	76.9
Heavy-Heavy Truck 33,001-60,000 lbs	0.7	0.0	0.0	100.0
Other Bus	0.1	0.0	0.0	100.0
Urban Bus	0.1	0.0	0.0	100.0
Motorcycle	2.9	37.9	62.1	0.0

Vehicle Fleet Mix

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
School Bus	0.0	0.0	0.0	0.0
Motor Home	0.6	0.0	83.3	16.7

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commuter	Non-Work	Customer
Urban Trip Length (miles)	5.4	3.6	3.6	9.5	7.4	7.4
Rural Trip Length (miles)	8.9	3.5	3.8	14.7	6.6	6.6
Trip speeds (mph)	35.0	35.0	35.0	35.0	35.0	35.0
% of Trips - Residential	32.9	18.0	49.1			
% of Trips - Commercial (by land use)						
Strip mall				2.0	1.0	97.0
General office building				35.0	17.5	47.5

K. WD	*	0	2	-150	2	*	AG	76	11.1	.0	9.9
L. WE	*	-150	2	-450	2	*	AG	76	11.1	.0	10.5
M. EF	*	-450	-2	-150	-2	*	AG	145	11.1	.0	10.5
N. EA	*	-150	-2	0	-2	*	AG	83	11.1	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	276	11.1	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	276	11.1	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	20	11.1	.0	9.9
R. SL	*	0	0	-2	150	*	AG	66	11.1	.0	9.9
S. WL	*	0	0	150	2	*	AG	147	11.1	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	62	11.1	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND 7TH ST AM Existing
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 8	* 1.8
2. SE3	* 8	* -8	* 1.8
3. SW3	* -8	* -8	* 1.8
4. NW3	* -8	* 8	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	* 184.	* 3.3	* .3	* 1.3	* .1	* .0	* .0	* .0	* .7	* .4
2. SE3	* 356.	* 3.2	* .0	* .1	* 1.3	* .2	* .4	* .6	* .0	* .0
3. SW3	* 176.	* 3.2	* .4	* .5	* .0	* .0	* .0	* .0	* 1.9	* .4
4. NW3	* 176.	* 3.3	* .4	* .6	* .0	* .0	* .0	* .2	* 1.7	* .3

RECEPTOR	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .1	* .0	* .0
3. SW3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. NW3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: DECOTO RD AND 7TH ST PM Existing
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

P. EE	*	150	-2	450	-2	* AG	500	11.1	.0	10.5
Q. NL	*	0	0	2	-150	* AG	0	11.1	.0	9.9
R. SL	*	0	0	-2	150	* AG	34	11.1	.0	9.9
S. WL	*	0	0	150	2	* AG	0	11.1	.0	9.9
T. EL	*	0	0	-150	-2	* AG	12	11.1	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: LINDA DR AND ALVARADO-NILES AM Existing
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM)							
	*			*	A	B	C	D	E	F	G	H
1. NE3	*	266.	* 2.9	*	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	274.	* 2.5	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	274.	* 2.5	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	94.	* 2.8	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.2	1.6	.3	.3	.5	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.7	.4	.2	1.0	.1	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.6	.5	.2	1.1	.0	.0	.0	.0	.0	.0
4. NW3	*	.3	1.5	.2	.0	.0	.0	.5	.3	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: LINDA DR AND ALVARADO-NILES PM Existing
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

LINK	*	LINK COORDINATES (M)	*	EF	H	W
------	---	----------------------	---	----	---	---

DESCRIPTION	*	X1	Y1	X2	Y2	* TYPE	VPH	(G/MI)	(M)	(M)
A. NF	*	2	-450	2	-150	* AG	0	11.1	.0	10.5
B. NA	*	2	-150	2	0	* AG	0	11.1	.0	9.9
C. ND	*	2	0	2	150	* AG	41	11.1	.0	9.9
D. NE	*	2	150	2	450	* AG	41	11.1	.0	10.5
E. SF	*	-2	450	-2	150	* AG	26	11.1	.0	10.5
F. SA	*	-2	150	-2	0	* AG	16	11.1	.0	9.9
G. SD	*	-2	0	-2	-150	* AG	0	11.1	.0	9.9
H. SE	*	-2	-150	-2	-450	* AG	0	11.1	.0	10.5
I. WF	*	450	2	150	2	* AG	547	11.1	.0	10.5
J. WA	*	150	2	0	2	* AG	547	11.1	.0	9.9
K. WD	*	0	2	-150	2	* AG	563	11.1	.0	9.9
L. WE	*	-150	2	-450	2	* AG	563	11.1	.0	10.5
M. EF	*	-450	-2	-150	-2	* AG	881	11.1	.0	10.5
N. EA	*	-150	-2	0	-2	* AG	840	11.1	.0	9.9
O. ED	*	0	-2	150	-2	* AG	850	11.1	.0	9.9
P. EE	*	150	-2	450	-2	* AG	850	11.1	.0	10.5
Q. NL	*	0	0	2	-150	* AG	0	11.1	.0	9.9
R. SL	*	0	0	-2	150	* AG	10	11.1	.0	9.9
S. WL	*	0	0	150	2	* AG	0	11.1	.0	9.9
T. EL	*	0	0	-150	-2	* AG	41	11.1	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: LINDA DR AND ALVARADO-NILES PM Existing
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG (DEG)	* PRED CONC (PPM)	*	CONC/LINK (PPM)							
	*			*	A	B	C	D	E	F	G	H
1. NE3	*	266.	* 3.0	*	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	274.	* 3.3	*	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	274.	* 3.3	*	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	266.	* 2.9	*	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	1.2	.2	.5	.7	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.5	.3	.3	1.8	.2	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.5	.4	.4	1.9	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	1.4	.3	.5	.7	.0	.0	.0	.0	.0	.0

N. EA	*	-150	-2	0	-2	*	AG	300	1.5	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	712	1.5	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	712	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	155	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	421	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	193	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	57	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND 7TH ST AM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG (DEG)	* PRED CONC (PPM)	CONC/LINK (PPM)							
	*		*	A	B	C	D	E	F	G	H
1. NE3	*	184.	* .7	.0	.2	.0	.0	.0	.0	.2	.0
2. SE3	*	356.	* .7	.0	.0	.2	.0	.1	.1	.0	.0
3. SW3	*	4.	* .8	.0	.0	.1	.0	.0	.3	.0	.0
4. NW3	*	176.	* .8	.0	.0	.0	.0	.0	.0	.4	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: DECOTO RD AND 7TH ST PM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

P. EE	*	150	-2	450	-2	*	AG	2000	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	78	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	186	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	769	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	207	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND PASEO PADRE AM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG	* PRED	* CONC	CONC/LINK (PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
1. NE3	*	184.	* 1.4	*	.0	.5	.0	.0	.0	.0	.2	.1
2. SE3	*	274.	* 1.3	*	.0	.2	.0	.0	.0	.0	.2	.0
3. SW3	*	85.	* 1.4	*	.0	.1	.0	.0	.0	.0	.3	.0
4. NW3	*	176.	* 1.4	*	.1	.2	.0	.0	.0	.0	.6	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.2	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0
4. NW3	*	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: DECOTO RD AND PASEO PADRE PM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	EF	H	W
	*	X1	Y1	X2	Y2	* TYPE	VPH (G/MI)	(M)	(M)

	*		*		*		*		*		*
A. NF	*	2	-450	2	-150	*	AG	2744	1.5	.0	10.5
B. NA	*	2	-150	2	0	*	AG	2446	1.5	.0	9.9
C. ND	*	2	0	2	150	*	AG	1983	1.5	.0	9.9
D. NE	*	2	150	2	450	*	AG	1983	1.5	.0	10.5
E. SF	*	-2	450	-2	150	*	AG	1493	1.5	.0	10.5
F. SA	*	-2	150	-2	0	*	AG	1344	1.5	.0	9.9
G. SD	*	-2	0	-2	-150	*	AG	1692	1.5	.0	9.9
H. SE	*	-2	-150	-2	-450	*	AG	1692	1.5	.0	10.5
I. WF	*	450	2	150	2	*	AG	1618	1.5	.0	10.5
J. WA	*	150	2	0	2	*	AG	948	1.5	.0	9.9
K. WD	*	0	2	-150	2	*	AG	1556	1.5	.0	9.9
L. WE	*	-150	2	-450	2	*	AG	1556	1.5	.0	10.5
M. EF	*	-450	-2	-150	-2	*	AG	1218	1.5	.0	10.5
N. EA	*	-150	-2	0	-2	*	AG	751	1.5	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	1842	1.5	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	1842	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	298	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	149	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	670	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	467	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND PASEO PADRE PM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 8	* 1.8
2. SE3	* 8	* -8	* 1.8
3. SW3	* -8	* -8	* 1.8
4. NW3	* -8	* 8	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	CONC/LINK (PPM)								
			* A	* B	* C	* D	* E	* F	* G	* H	
1. NE3	* 184.	* 1.4	* .0	* .6	* .0	* .0	* .0	* .0	* .0	* .2	* .1
2. SE3	* 356.	* 1.2	* .0	* .0	* .5	* .0	* .0	* .1	* .0	* .0	* .0
3. SW3	* 86.	* 1.3	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .2	* .0
4. NW3	* 176.	* 1.2	* .1	* .2	* .0	* .0	* .0	* .0	* .0	* .4	* .0

RECEPTOR	CONC/LINK (PPM)											
	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .0	* .0	* .0	* .0	* .1	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .0	* .0	* .0	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0
3. SW3	* .0	* .1	* .0	* .0	* .0	* .0	* .5	* .0	* .0	* .0	* .1	* .0
4. NW3	* .0	* .0	* .2	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: EW CONNECTOR AND ALVARADO-NILES AM NP
 RUN: Hour 1 (WORST CASE ANGLE)

3. SW3 * -8 -8 1.8
 4. NW3 * -8 8 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG * (DEG)	* PRED * CONC * (PPM)	CONC/LINK (PPM)								
			A	B	C	D	E	F	G	H	
1. NE3	* 184.	* 1.2 *	.0	.4	.0	.0	.0	.0	.0	.2	.1
2. SE3	* 356.	* 1.2 *	.0	.0	.5	.0	.1	.2	.0	.0	.0
3. SW3	* 4.	* 1.3 *	.0	.0	.2	.1	.0	.5	.0	.0	.0
4. NW3	* 176.	* 1.4 *	.1	.2	.0	.0	.0	.0	.0	.6	.0

RECEPTOR	CONC/LINK (PPM)											
	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
2. SE3	* .0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: LINDA DR AND ALVARADO-NILES AM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 5.5 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M)				* TYPE	VPH	EF (G/MI)	H (M)	W (M)
	* X1	Y1	X2	Y2					
A. NF	* 2	-450	2	-150	* AG	0	1.5	.0	10.5
B. NA	* 2	-150	2	0	* AG	0	1.5	.0	9.9
C. ND	* 2	0	2	150	* AG	5	1.5	.0	9.9
D. NE	* 2	150	2	450	* AG	5	1.5	.0	10.5
E. SF	* -2	450	-2	150	* AG	27	1.5	.0	10.5
F. SA	* -2	150	-2	0	* AG	19	1.5	.0	9.9
G. SD	* -2	0	-2	-150	* AG	25	1.5	.0	9.9
H. SE	* -2	-150	-2	-450	* AG	25	1.5	.0	10.5
I. WF	* 450	2	150	2	* AG	1199	1.5	.0	10.5
J. WA	* 150	2	0	2	* AG	1199	1.5	.0	9.9
K. WD	* 0	2	-150	2	* AG	1213	1.5	.0	9.9
L. WE	* -150	2	-450	2	* AG	1213	1.5	.0	10.5
M. EF	* -450	-2	-150	-2	* AG	884	1.5	.0	10.5
N. EA	* -150	-2	0	-2	* AG	884	1.5	.0	9.9
O. ED	* 0	-2	150	-2	* AG	867	1.5	.0	9.9
P. EE	* 150	-2	450	-2	* AG	867	1.5	.0	10.5
Q. NL	* 0	0	2	-150	* AG	0	1.5	.0	9.9
R. SL	* 0	0	-2	150	* AG	8	1.5	.0	9.9
S. WL	* 0	0	150	2	* AG	0	1.5	.0	9.9
T. EL	* 0	0	-150	-2	* AG	0	1.5	.0	9.9

JOB: LINDA DR AND ALVARADO-NILES AM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	D	E	F	G	H
1. NE3	266.	.6	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	274.	.5	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	274.	.5	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	266.	.6	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. SE3	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0
3. SW3	.0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0
4. NW3	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0

JOB: LINDA DR AND ALVARADO-NILES PM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 5.5 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	* AG	0	1.5	.0	10.5
B. NA	2	-150	2	0	* AG	0	1.5	.0	9.9
C. ND	2	0	2	150	* AG	11	1.5	.0	9.9
D. NE	2	150	2	450	* AG	11	1.5	.0	10.5
E. SF	-2	450	-2	150	* AG	32	1.5	.0	10.5

F. SA	*	-2	150	-2	0	*	AG	23	1.5	.0	9.9
G. SD	*	-2	0	-2	-150	*	AG	20	1.5	.0	9.9
H. SE	*	-2	-150	-2	-450	*	AG	20	1.5	.0	10.5
I. WF	*	450	2	150	2	*	AG	1036	1.5	.0	10.5
J. WA	*	150	2	0	2	*	AG	1036	1.5	.0	9.9
K. WD	*	0	2	-150	2	*	AG	1048	1.5	.0	9.9
L. WE	*	-150	2	-450	2	*	AG	1048	1.5	.0	10.5
M. EF	*	-450	-2	-150	-2	*	AG	1012	1.5	.0	10.5
N. EA	*	-150	-2	0	-2	*	AG	1012	1.5	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	1001	1.5	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	1001	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	0	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	9	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	0	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	0	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: LINDA DR AND ALVARADO-NILES PM NP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 8	* 1.8
2. SE3	* 8	* -8	* 1.8
3. SW3	* -8	* -8	* 1.8
4. NW3	* -8	* 8	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	B	C	D	E	F	G	H
1. NE3	* 266.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
2. SE3	* 274.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
3. SW3	* 274.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0
4. NW3	* 266.	* .6	* .0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	* I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	* .0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. SE3	* .0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0
3. SW3	* .0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0
4. NW3	* .0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0

P. EE	*	150	-2	450	-2	*	AG	2017	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	78	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	186	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	794	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	207	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND PASEO PADRE AM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG	* PRED	* CONC	CONC/LINK (PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
1. NE3	*	184.	* 1.3	*	.0	.5	.0	.0	.0	.0	.2	.1
2. SE3	*	274.	* 1.3	*	.0	.2	.0	.0	.0	.0	.2	.0
3. SW3	*	85.	* 1.4	*	.0	.1	.0	.0	.0	.0	.3	.0
4. NW3	*	176.	* 1.4	*	.1	.2	.0	.0	.0	.0	.6	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.1	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0
3. SW3	*	.0	.2	.0	.0	.0	.0	.5	.0	.0	.0	.1	.0
4. NW3	*	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: DECOTO RD AND PASEO PADRE PM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	EF	H	W
	*	X1	Y1	X2	Y2	* TYPE	VPH (G/MI)	(M)	(M)

P. EE	*	150	-2	450	-2	*	AG	1173	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	35	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	595	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	387	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	72	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND 11TH ST AM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG	* PRED	* CONC	CONC/LINK (PPM)							
	*	(DEG)	* (PPM)	*	A	B	C	D	E	F	G	H
1. NE3	*	184.	* .8	*	.0	.3	.0	.0	.0	.0	.2	.0
2. SE3	*	356.	* .9	*	.0	.0	.3	.0	.0	.1	.0	.0
3. SW3	*	86.	* .8	*	.0	.0	.0	.0	.0	.0	.1	.0
4. NW3	*	176.	* .8	*	.0	.1	.0	.0	.0	.0	.4	.0

RECEPTOR	*	CONC/LINK (PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: DECOTO RD AND 11TH ST PM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	EF	H	W
	*	X1	Y1	X2	Y2	* TYPE	VPH (G/MI)	(M)	(M)

	*		*		*		*		*		*
A. NF	*	2	-450	2	-150	*	AG	1961	1.5	.0	10.5
B. NA	*	2	-150	2	0	*	AG	1506	1.5	.0	9.9
C. ND	*	2	0	2	150	*	AG	1393	1.5	.0	9.9
D. NE	*	2	150	2	450	*	AG	1393	1.5	.0	10.5
E. SF	*	-2	450	-2	150	*	AG	1125	1.5	.0	10.5
F. SA	*	-2	150	-2	0	*	AG	670	1.5	.0	9.9
G. SD	*	-2	0	-2	-150	*	AG	1319	1.5	.0	9.9
H. SE	*	-2	-150	-2	-450	*	AG	1319	1.5	.0	10.5
I. WF	*	450	2	150	2	*	AG	684	1.5	.0	10.5
J. WA	*	150	2	0	2	*	AG	163	1.5	.0	9.9
K. WD	*	0	2	-150	2	*	AG	513	1.5	.0	9.9
L. WE	*	-150	2	-450	2	*	AG	513	1.5	.0	10.5
M. EF	*	-450	-2	-150	-2	*	AG	222	1.5	.0	10.5
N. EA	*	-150	-2	0	-2	*	AG	171	1.5	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	767	1.5	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	767	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	455	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	455	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	521	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	51	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: DECOTO RD AND 11TH ST PM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	* 8	* 8	* 1.8
2. SE3	* 8	* -8	* 1.8
3. SW3	* -8	* -8	* 1.8
4. NW3	* -8	* 8	* 1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	CONC/LINK (PPM)								
			* A	* B	* C	* D	* E	* F	* G	* H	
1. NE3	* 184.	* 1.0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .1	* .0
2. SE3	* 356.	* .9	* .0	* .0	* .4	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* 176.	* .8	* .1	* .1	* .0	* .0	* .0	* .0	* .0	* .4	* .0
4. NW3	* 176.	* .9	* .1	* .2	* .0	* .0	* .0	* .0	* .0	* .4	* .0

RECEPTOR	CONC/LINK (PPM)											
	* I	* J	* K	* L	* M	* N	* O	* P	* Q	* R	* S	* T
1. NE3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
2. SE3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
3. SW3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0
4. NW3	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0	* .0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: EW CONNECTOR AND ALVARADO-NILES AM WP

RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U= .5 M/S Z0= 100. CM ALT= 0. (M)
 BRG= WORST CASE VD= .0 CM/S
 CLAS= 7 (G) VS= .0 CM/S
 MIXH= 1000. M AMB= .0 PPM
 SIGTH= 5. DEGREES TEMP= 5.5 DEGREE (C)

II. LINK VARIABLES

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. NF	2	-450	2	-150	AG	2015	1.5	.0	10.5
B. NA	2	-150	2	0	AG	1649	1.5	.0	9.9
C. ND	2	0	2	150	AG	1944	1.5	.0	9.9
D. NE	2	150	2	450	AG	1944	1.5	.0	10.5
E. SF	-2	450	-2	150	AG	2326	1.5	.0	10.5
F. SA	-2	150	-2	0	AG	1942	1.5	.0	9.9
G. SD	-2	0	-2	-150	AG	2763	1.5	.0	9.9
H. SE	-2	-150	-2	-450	AG	2763	1.5	.0	10.5
I. WF	450	2	150	2	AG	870	1.5	.0	10.5
J. WA	150	2	0	2	AG	330	1.5	.0	9.9
K. WD	0	2	-150	2	AG	1081	1.5	.0	9.9
L. WE	-150	2	-450	2	AG	1081	1.5	.0	10.5
M. EF	-450	-2	-150	-2	AG	1424	1.5	.0	10.5
N. EA	-150	-2	0	-2	AG	1043	1.5	.0	9.9
O. ED	0	-2	150	-2	AG	847	1.5	.0	9.9
P. EE	150	-2	450	-2	AG	847	1.5	.0	10.5
Q. NL	0	0	2	-150	AG	366	1.5	.0	9.9
R. SL	0	0	-2	150	AG	384	1.5	.0	9.9
S. WL	0	0	150	2	AG	540	1.5	.0	9.9
T. EL	0	0	-150	-2	AG	381	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: EW CONNECTOR AND ALVARADO-NILES AM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	* X	* Y	* Z
1. NE3	8	8	1.8
2. SE3	8	-8	1.8
3. SW3	-8	-8	1.8
4. NW3	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	* BRG (DEG)	* PRED CONC (PPM)	* A	* B	* C	* D	* E	* F	* G	* H
1. NE3	184.	1.2	.0	.4	.0	.0	.0	.0	.2	.1
2. SE3	356.	1.1	.0	.0	.5	.0	.1	.2	.0	.0
3. SW3	4.	1.3	.0	.0	.2	.1	.0	.5	.0	.0
4. NW3	176.	1.4	.1	.2	.0	.0	.0	.0	.6	.0

2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	BRG	* PRED	* CONC	CONC/LINK							
	*	(DEG)	* (PPM)	*	(PPM)							
	*		*	*	A	B	C	D	E	F	G	H
1. NE3	*	184.	* 1.2	*	.0	.4	.0	.0	.0	.0	.2	.1
2. SE3	*	356.	* 1.2	*	.0	.0	.5	.0	.1	.2	.0	.0
3. SW3	*	4.	* 1.3	*	.0	.0	.2	.1	.0	.5	.0	.0
4. NW3	*	176.	* 1.4	*	.1	.2	.0	.0	.0	.0	.6	.0

RECEPTOR	*	CONC/LINK											
	*	(PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
2. SE3	*	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 1

JOB: LINDA DR AND ALVARADO-NILES AM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

I. SITE VARIABLES

U=	.5 M/S	Z0=	100. CM	ALT=	0. (M)
BRG=	WORST CASE	VD=	.0 CM/S		
CLAS=	7 (G)	VS=	.0 CM/S		
MIXH=	1000. M	AMB=	.0 PPM		
SIGTH=	5. DEGREES	TEMP=	5.5 DEGREE (C)		

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	EF (G/MI)	H (M)	W (M)	
	*	X1	Y1	X2	Y2	* TYPE				
A. NF	*	2	-450	2	-150	* AG	0	1.5	.0	10.5
B. NA	*	2	-150	2	0	* AG	0	1.5	.0	9.9
C. ND	*	2	0	2	150	* AG	5	1.5	.0	9.9
D. NE	*	2	150	2	450	* AG	5	1.5	.0	10.5
E. SF	*	-2	450	-2	150	* AG	27	1.5	.0	10.5
F. SA	*	-2	150	-2	0	* AG	19	1.5	.0	9.9
G. SD	*	-2	0	-2	-150	* AG	0	1.5	.0	9.9
H. SE	*	-2	-150	-2	-450	* AG	0	1.5	.0	10.5
I. WF	*	450	2	150	2	* AG	1381	1.5	.0	10.5
J. WA	*	150	2	0	2	* AG	1381	1.5	.0	9.9
K. WD	*	0	2	-150	2	* AG	1395	1.5	.0	9.9
L. WE	*	-150	2	-450	2	* AG	1395	1.5	.0	10.5
M. EF	*	-450	-2	-150	-2	* AG	912	1.5	.0	10.5
N. EA	*	-150	-2	0	-2	* AG	912	1.5	.0	9.9
O. ED	*	0	-2	150	-2	* AG	920	1.5	.0	9.9
P. EE	*	150	-2	450	-2	* AG	920	1.5	.0	10.5
Q. NL	*	0	0	2	-150	* AG	0	1.5	.0	9.9
R. SL	*	0	0	-2	150	* AG	8	1.5	.0	9.9
S. WL	*	0	0	150	2	* AG	0	1.5	.0	9.9
T. EL	*	0	0	-150	-2	* AG	0	1.5	.0	9.9

E. SF	*	-2	450	-2	150	*	AG	32	1.5	.0	10.5
F. SA	*	-2	150	-2	0	*	AG	23	1.5	.0	9.9
G. SD	*	-2	0	-2	-150	*	AG	0	1.5	.0	9.9
H. SE	*	-2	-150	-2	-450	*	AG	0	1.5	.0	10.5
I. WF	*	450	2	150	2	*	AG	1093	1.5	.0	10.5
J. WA	*	150	2	0	2	*	AG	1093	1.5	.0	9.9
K. WD	*	0	2	-150	2	*	AG	1105	1.5	.0	9.9
L. WE	*	-150	2	-450	2	*	AG	1105	1.5	.0	10.5
M. EF	*	-450	-2	-150	-2	*	AG	1150	1.5	.0	10.5
N. EA	*	-150	-2	0	-2	*	AG	1150	1.5	.0	9.9
O. ED	*	0	-2	150	-2	*	AG	1159	1.5	.0	9.9
P. EE	*	150	-2	450	-2	*	AG	1159	1.5	.0	10.5
Q. NL	*	0	0	2	-150	*	AG	0	1.5	.0	9.9
R. SL	*	0	0	-2	150	*	AG	9	1.5	.0	9.9
S. WL	*	0	0	150	2	*	AG	0	1.5	.0	9.9
T. EL	*	0	0	-150	-2	*	AG	0	1.5	.0	9.9

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
 JUNE 1989 VERSION
 PAGE 2

JOB: LINDA DR AND ALVARADO-NILES PM WP
 RUN: Hour 1 (WORST CASE ANGLE)
 POLLUTANT: Carbon Monoxide

III. RECEPTOR LOCATIONS

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. NE3	*	8	8	1.8
2. SE3	*	8	-8	1.8
3. SW3	*	-8	-8	1.8
4. NW3	*	-8	8	1.8

IV. MODEL RESULTS (WORST CASE WIND ANGLE)

RECEPTOR	*	* PRED *		CONC/LINK								
	*	BRG	* CONC *	(PPM)								
	*	(DEG)	* (PPM) *	A	B	C	D	E	F	G	H	
1. NE3	*	266.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
2. SE3	*	86.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
3. SW3	*	274.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0
4. NW3	*	94.	* .6 *	.0	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	*	CONC/LINK											
	*	(PPM)											
	*	I	J	K	L	M	N	O	P	Q	R	S	T
1. NE3	*	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0
2. SE3	*	.0	.1	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0
3. SW3	*	.0	.0	.1	.0	.0	.3	.0	.0	.0	.0	.0	.0
4. NW3	*	.0	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0

DATE : 8/ 2/10
 TIME : 6:22:23

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
 General Information
 =====

Run start date: 1/ 1/91 Julian: 1
 end date: 12/31/91 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to P for calculating PM averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 100. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 1901 91
 Upper Air Sta. Id & Yr = 1901 91

Urban mixing heights were processed.

In 1991, Julian day 1 is a Tuesday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	* X1	* Y1	* X2	* Y2	* LENGTH (M)	BRG (DEG)	TYPE	H (M)	W (M)	NLANES
1. Link_1	.0	-10000.0	.0	10000.0	20000.	360.	AG	5.0	8.0	

Receptor Data

RECEPTOR	* X	* Y	* Z
1. Rcpt_1	30.5	.0	1.8
2. Rcpt_2	-30.5	.0	1.8

DATE : 8/ 2/10
TIME : 6:22:23

PAGE: 2

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
* (MICROGRAMS/M**3)
* REC1 REC2

	REC1	REC2
MAX+BKG *	.4	.4
- BKG *	.0	.0
MAX *	.4	.4
WIND DIR*	183	1
JULIAN *	4	2
HOURLY *	22	8

THE HIGHEST CONCENTRATION OF .40 UG/M**3 OCCURRED AT RECEPTOR REC2

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:22:26

PAGE: 3

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
Output Section
=====

NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.
2. THE NUMBERS IN PARENTHESSES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.
3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AND SECONDARY AVERAGES.

FIVE HIGHEST 24-HOUR END-TO-END AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3

EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcpt No.	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.17*	(14,24)	C 0	.16*	(272,24)	C 1	.15	(15,24)	C 0	.15	(256,24)	C 0	.15	(274,24)	C 0
2	.17	(358,24)	C 0	.14	(338,24)	C 0	.14	(345,24)	C 0	.14	(337,24)	C 0	.14	(2,24)	C 0

THE HIGHEST ANNUAL AVERAGE CONCENTRATIONS
IN MICROGRAMS/M**3
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Maximum Conc	Ending Day Hr	Calm
1	.08*	(365,24)	C 12
2	.05	(365,24)	C 12

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:22:26

PAGE: 4

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	4	(39,12)(144, 3)(155,10)(272, 6)
8	1	(233, 8)

Program terminated normally

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:23:23

PAGE: 1

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
General Information
=====

Run start date: 1/ 1/92 Julian: 1
end date: 12/31/92 Julian: 366

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to P for calculating PM averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 100. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 1901 92
 Upper Air Sta. Id & Yr = 1901 92

Urban mixing heights were processed.

In 1992, Julian day 1 is a Wednesday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	* X1	LINK COORDINATES (M)	Y1	X2	Y2	* LENGTH (M)	BRG (DEG)	TYPE	H (M)	W (M)	NLANES
1. Link_1	*	.0	-10000.0	.0	10000.0	*	20000.	360.	AG	5.0	8.0

Receptor Data

RECEPTOR	* X	COORDINATES (M)	Y	Z
1. Rcpt_1	*	30.5	.0	1.8
2. Rcpt_2	*	-30.5	.0	1.8

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:23:23

PAGE: 2

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
 * (MICROGRAMS/M**3)
 * REC1 REC2

MAX+BKG	*	.4	.4
- BKG	*	.0	.0

```

-----*-----
MAX * .4 .4
WIND DIR* 347 13
JULIAN * 10 11
HOUR * 5 4

```

THE HIGHEST CONCENTRATION OF .40 UG/M**3 OCCURRED AT RECEPTOR REC1 .

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:23:26

PAGE: 3

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

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Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.
2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.
3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AND SECONDARY AVERAGES.

FIVE HIGHEST 24-HOUR END-TO-END AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.17*	(321,24)	C 0	.16*	(25,24)	C 0	.15	(248,24)	C 0	.14	(361,24)	C 0	.14	(330,24)	C 0
2	.15	(318,24)	C 0	.14	(15,24)	C 0	.14	(39,24)	C 0	.13	(319,24)	C 0	.13	(29,24)	C 0

THE HIGHEST ANNUAL AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Maximum Conc	Ending Day Hr	Calm
1	.07*	(366,24)	C 4
2	.06	(366,24)	C 4

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10

PAGE: 4

TIME : 6:23:26

JOB: C:\Documents and Settings\mmcfalls\Desktop

RUN: CAL3QHCR RUN

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	2	(63,11)(350,15)
2	1	(218,14)

Program terminated normally

DATE : 8/ 2/10
 TIME : 6:24:22

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
 General Information
 =====

Run start date: 1/ 1/93 Julian: 1
 end date: 12/31/93 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to P for calculating PM averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 100. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 1901 93
 Upper Air Sta. Id & Yr = 1901 93

Urban mixing heights were processed.

In 1993, Julian day 1 is a Friday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH	BRG	TYPE	H	W	NLANES
	*	X1	Y1	X2	Y2	*	(M)	(DEG)	(M)	(M)		
1. Link_1	*	.0	-10000.0	.0	10000.0	*	20000.	360.	AG	5.0	8.0	

Receptor Data

RECEPTOR	*	COORDINATES (M)		
	*	X	Y	Z
1. Rcpt_1	*	30.5	.0	1.8
2. Rcpt_2	*	-30.5	.0	1.8

TIME : 6:24:22

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
 * (MICROGRAMS/M**3)

	REC1	REC2
MAX+BKG *	.4	.4
- BKG *	.0	.0
MAX *	.4	.4
WIND DIR*	186	4
JULIAN *	14	5
HOURLY *	24	10

THE HIGHEST CONCENTRATION OF .40 UG/M**3 OCCURRED AT RECEPTOR REC2 .

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:24:26

PAGE: 3

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
Output Section
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NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.
2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.
3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AND SECONDARY AVERAGES.

FIVE HIGHEST 24-HOUR END-TO-END AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcpt No.	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.19	(337,24)	C 0	.18	(351,24)	C 0	.15	(360,24)	C 0	.15	(352,24)	C 0	.14	(18,24)	C 0
2	.19*	(362,24)	C 0	.18*	(365,24)	C 0	.18	(343,24)	C 0	.18	(363,24)	C 0	.17	(355,24)	C 0

THE HIGHEST ANNUAL AVERAGE CONCENTRATIONS
 IN MICROGRAMS/M**3
 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Maximum Conc	Ending Day Hr	Calm
1	.07*	(365,24)	C 40
2	.07	(365,24)	C 40

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:24:26

PAGE: 4

JOB: C:\Documents and Settings\mmcfalls\Desktop

RUN: CAL3QHCR RUN

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	5	(85,10)(132,11)(180,11)(202,16)(335,11)
3	2	(131,13)(231,16)
5	1	(134,15)

Program terminated normally

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:25: 1

PAGE: 1

JOB: C:\Documents and Settings\mmcfalls\Desktop

RUN: CAL3QHCR RUN

=====
 General Information
 =====

Run start date: 1/ 1/94 Julian: 1
 end date: 12/31/94 Julian: 365

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to P for calculating PM averages.

- BKG	*	.0	.0
-----*			
MAX	*	.4	.4
WIND DIR*		348	172
JULIAN	*	1	3
HOUR	*	19	9

THE HIGHEST CONCENTRATION OF .40 UG/M**3 OCCURRED AT RECEPTOR REC1 .

DATE : 8/ 2/10
 TIME : 6:25: 4

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
 Output Section
 =====

NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.
2. THE NUMBERS IN PARENTHESES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.
3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AND SECONDARY AVERAGES.

FIVE HIGHEST 24-HOUR END-TO-END AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3
 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcpttr No.	Highest			Second Highest			Third Highest			Fourth Highest			Fifth Highest		
	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm	Conc	Ending Day Hr	Calm
1	.16	(16,24)	C 0	.15	(4,24)	C 0	.15	(2,24)	C 0	.15	(20,24)	C 0	.15	(275,24)	C 0
2	.20*	(8,24)	C 0	.18*	(350,24)	C 0	.17	(12,24)	C 0	.16	(13,24)	C 0	.16	(25,24)	C 0

THE HIGHEST ANNUAL AVERAGE CONCENTRATIONS
 IN MICROGRAMS/M**3
 EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Maximum Conc	Ending Day Hr	Calm
1	.08*	(365,24)	C 70
2	.06	(365,24)	C 70

DATE : 8/ 2/10
 TIME : 6:25: 4

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	3	(18, 8)(60,16)(189,15)
8	1	(251, 8)

Program terminated normally

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:25:42

PAGE: 1

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

=====
General Information
=====

Run start date: 1/ 1/96 Julian: 1
end date: 12/31/96 Julian: 366

A Tier 1 approach was used for input data preparation.

The MODE flag has been set to P for calculating PM averages.

Ambient background concentrations are excluded from the averages below.

Site & Meteorological Constants

VS = .0 CM/S VD = .0 CM/S Z0 = 100. CM ATIM = 60.

Met. Sfc. Sta. Id & Yr = 1901 96
Upper Air Sta. Id & Yr = 1901 96

Urban mixing heights were processed.

In 1996, Julian day 1 is a Monday.

Link Data Constants - (Variable data in *.LNK file)

LINK DESCRIPTION	*	LINK COORDINATES (M)				*	LENGTH	BRG	TYPE	H	W	NLANES
	*	X1	Y1	X2	Y2	*	(M)	(DEG)	(M)	(M)		
1. Link_1	*	.0	-10000.0	.0	10000.0	*	20000.	360.	AG	5.0	8.0	

Receptor Data

RECEPTOR	COORDINATES (M)		
	X	Y	Z
1. Rcpt_1	30.5	.0	1.8
2. Rcpt_2	-30.5	.0	1.8

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:25:42

PAGE: 2

JOB: C:\Documents and Settings\mmcfalls\Desktop

RUN: CAL3QHCR RUN

Model Results

Remarks : In search of the wind direction corresponding to the maximum concentration, only the first direction, of the directions with the same maximum concentrations, is indicated as the maximum.

* MAXIMUM HOURLY CONCENTRATIONS WITH ANY AMBIENT BACKGROUND CONCENTRATIONS (BKG) ADDED
 * (MICROGRAMS/M**3)

	REC1	REC2
MAX+BKG *	.4	.4
- BKG *	.0	.0
MAX *	.4	.4
WIND DIR*	341	176
JULIAN *	5	2
HOUR *	23	20

THE HIGHEST CONCENTRATION OF .40 UG/M**3 OCCURRED AT RECEPTOR REC2 .

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
 TIME : 6:25:45

PAGE: 3

JOB: C:\Documents and Settings\mmcfalls\Desktop

RUN: CAL3QHCR RUN

=====
 Output Section
 =====

NOTES PERTAINING TO THE REPORT

1. THE HIGHEST AVERAGE IN EACH OF THE FIRST TWO COLUMNS OF EACH TABLE BELOW ARE SUFFIXED BY AN ASTERISK (*). FOR PM OUTPUT, THERE IS ONLY ONE COLUMN AND ASTERISK FOR THE ANNUAL AVERAGE/PERIOD OF CONCERN TABLE.

2. THE NUMBERS IN PARENTHESSES ARE THE JULIAN DAY AND ENDING HOUR FOR THE PRECEDING AVERAGE.
3. THE NUMBER OF CALM HOURS USED IN PRODUCING EACH AVERAGE ARE PREFIXED BY A C.

PRIMARY AND SECONDARY AVERAGES.

FIVE HIGHEST 24-HOUR END-TO-END AVERAGE CONCENTRATIONS IN MICROGRAMS/M**3
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Rcptr No.	Highest Ending			Second Highest Ending			Third Highest Ending			Fourth Highest Ending			Fifth Highest Ending		
	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm	Conc	Day Hr	Calm
1	.16	(156,24)	C 0	.16	(277,24)	C 0	.15	(76,24)	C 0	.15	(222,24)	C 0	.15	(330,24)	C 0
2	.17*	(6,24)	C 0	.16*	(355,24)	C 0	.15	(46,24)	C 0	.15	(315,24)	C 0	.14	(314,24)	C 0

THE HIGHEST ANNUAL AVERAGE CONCENTRATIONS
IN MICROGRAMS/M**3
EXCLUDING AMBIENT BACKGROUND CONCENTRATIONS.

Receptor Number	Maximum Conc	Ending Day Hr	Calm
1	.08*	(366,24)	C 69
2	.06	(366,24)	C 69

CAL3QHCR (Dated: 95221)

DATE : 8/ 2/10
TIME : 6:25:45

PAGE: 4

JOB: C:\Documents and Settings\mmcfalls\Deskt

RUN: CAL3QHCR RUN

CALM DURATION FREQUENCY

Hours of Consecutive Calm Winds	Frequency of Occurrence	(Julian day/hour ending) of Significant Occurrences
1	2	(67,12)(162,11)
19	1	(2,19)

Program terminated normally

