15.4 Air Quality Data

Parenthetical URBEMIS2002 Assumptions
For: Shoreline Gateway
Date: May 2006

CONSTRUCTION SOURCES

Duration	Development
34 months	358 Townhomes/Condo & retail

Phase 1 - Demolition:

Total Volume – 291,120 cubic feet
Total Daily Volume – 160 cubic feet

Equipment:

1	Concrete/Industrial Saw	8 hours operation
1	Off Highway Trucks	8 hours operation
2	Other Equipment	8 hours operation
1	Signal Boards	8 hours operation

Phase 2 - Site Grading:

Year	Total Acreage Disturbed	Acreage Disturbed Daily	Duration	Fugitive Dust	Soil Hauling
1	501	2	4	Default	None

Equipment:

2	Cranes	8 hours operation
2	Crushing/Processing Equipment	8 hours operation
2	Off Highway Tractors	8 hours operation
2	Off Highway Trucks	8 hours operation
1	Signal Boards	8 hours operation

Phase 3 – Building Equipment:

Duration:

Construction of Building – *28 months*

Equipment:

2	Cranes	8 hours operation
2	Off Highway Tractors	8 hours operation
4	Off Highway Trucks	8 hours operation
2	Other Equipment	8 hours operation
2	Signal Boards	8 hours operation
2	Tractors/Loaders/Backhoes	8 hours operation

Phase 3 – Architectural Coatings:

Off

Phase 3 – Asphalt

Duration – *1 months*
Acres to be Paved – *1 acres*

<u>Equipment:</u>

1	Pavers	8 hours operation
2	Paving Equipment	8 hours operation
2	Rollers	8 hours operation
1	Other Equipment	8 hours operation

Phase 3 - Worker Commute

(URBEMIS2002 default all phases)

Construction Mitigation:

Refer to URBEMIS2002 file output.

<u>YEAR 2015 AREA SOURCES</u>

Natural Gas Fuel Combustion:

(URBEMIS2002 default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Landscape Maintenance Equipment:

Year of Completion	Summer Days
2015	180

Consumer Products:

(URBEMIS2002 default all phases)

Area Source Mitigation:

Refer to URBEMIS2002 file output.

YEAR 2015 OPERATIONAL SOURCES

Vehicle Fleet %:

(URBEMIS2002 default all phases)

Year:

Year of Completion – 2015

Trip Characteristics:

(URBEMIS2002 Default all phases)

Temperature Data:

40 to 90 degrees Fahrenheit

Variable Starts:

(URBEMIS2002 default all phases)

Road Dust:

Paved – 100%
Unpaved – 0%

Pass By Trips (On/Off):

On

Double-Counting(On/Off):

Off

Operational Mitigation Measures:

Refer to URBEMIS 2002 file output.

YEAR 2030 AREA SOURCES

Natural Gas Fuel Combustion:

(URBEMIS2002 default all phases)

Wood Stoves Fuel Combustion:

Off

Fireplaces:

Off

Landscape Maintenance Equipment:

Year of Completion	Summer Days
2015	180

Consumer Products:

(URBEMIS2002 default all phases)

Area Source Mitigation:

Refer to URBEMIS2002 file output.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	41.94	348.14	317.86	1.32	200.49	12.27	188.22
TOTALS (lbs/day, mitigated)	41.94	348.14	317.86	1.32	40.67	12.27	28.40

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	28.80	187.98	235.84	0.00	7.71	7.57	0.14
TOTALS (lbs/day, mitigated)	28.80	187.98	235.84	0.00	7.71	7.57	0.14

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	34.25	218.07	281.39	0.00	8.39	8.24	0.15
TOTALS (lbs/day, mitigated)	34.25	218.07	281.39	0.00	8.39	8.24	0.15

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	23.93	2.84	2.82	0.00	0.01
TOTALS (lbs/day, mitigated)	23.93	2.84	2.82	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	15.22	14.06	153.38	0.19	28.67
TOTALS (lbs/day, mitigated)	15.00	13.78	150.31	0.18	28.10

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	39.15	16.90	156.20	0.19	28.68
TOTALS (lbs/day, mitigated)	38.93	16.62	153.13	0.18	28.11

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	41.94	348.14	317.86	1.32	200.49	12.27	188.22
TOTALS (lbs/day, mitigated)	41.94	348.14	317.86	1.32	40.67	12.27	28.40

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	28.80	187.98	235.84	0.00	7.71	7.57	0.14
TOTALS (lbs/day, mitigated)	28.80	187.98	235.84	0.00	7.71	7.57	0.14

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (lbs/day,unmitigated)	34.25	218.07	281.39	0.00	8.39	8.24	0.15
TOTALS (lbs/day, mitigated)	34.25	218.07	281.39	0.00	8.39	8.24	0.15

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	23.68	2.83	1.26	0.00	0.01
TOTALS (lbs/day, mitigated)	23.68	2.83	1.26	0.00	0.01

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	12.59	20.19	145.33	0.15	28.67
TOTALS (lbs/day, mitigated)	12.34	19.79	142.43	0.15	28.10

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	36.27	23.02	146.59	0.15	28.68
TOTALS (lbs/day, mitigated)	36.02	22.62	143.69	0.15	28.10

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

CONSTRUCTION EMISSION ESTIMATES

*** 2006 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	4.22	30.95	33.13	0.06	9.53	1.24	8.29
TOTALS (tpy, mitigated)	4.22	30.95	33.13	0.06	2.49	1.24	1.25

*** 2007 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	3.80	24.80	31.10	0.00	1.02	1.00	0.02
TOTALS (tpy, mitigated)	3.80	24.80	31.10	0.00	1.02	1.00	0.02

*** 2008 ***	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
TOTALS (tpy, unmitigated)	2.90	18.41	24.04	0.00	0.70	0.69	0.01
TOTALS (tpy, mitigated)	2.90	18.41	24.04	0.00	0.70	0.69	0.01

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	4.04	0.52	0.37	0.00	0.00
TOTALS (tpy, mitigated)	4.04	0.52	0.37	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	2.62	2.94	27.50	0.03	5.23
TOTALS (tpy, mitigated)	2.58	2.88	26.95	0.03	5.13

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	6.66	3.46	27.87	0.03	5.23
TOTALS (tpy, mitigated)	6.62	3.40	27.32	0.03	5.13

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

Construction Start Month and Year: January, 2006
Construction Duration: 34
Total Land Use Area to be Developed: 2.2 acres
Maximum Acreage Disturbed Per Day: 2.2 acres
Single Family Units: 0 Multi-Family Units: 358
Retail/Office/Institutional/Industrial Square Footage: 13561

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.07	-	0.07
Off-Road Diesel	21.44	153.55	166.54	-	6.77	6.77	0.00
On-Road Diesel	0.01	0.25	0.04	0.00	0.00	0.00	0.00
Worker Trips	0.22	0.41	4.46	0.00	0.02	0.01	0.01
Maximum lbs/day	21.67	154.21	171.04	0.00	6.86	6.78	0.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	187.86	-	187.86
Off-Road Diesel	37.73	256.95	301.03	-	10.52	10.52	0.00
On-Road Diesel	4.07	91.11	15.15	1.32	2.09	1.75	0.34
Worker Trips	0.14	0.08	1.68	0.00	0.02	0.00	0.02
Maximum lbs/day	41.94	348.14	317.86	1.32	200.49	12.27	188.22
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	193.45	223.27	-	8.40	8.40	0.00
Bldg Const Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.86	193.93	233.45	0.00	8.55	8.41	0.14
Max lbs/day all phases	41.94	348.14	317.86	1.32	200.49	12.27	188.22
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	187.53	226.27	-	7.56	7.56	0.00
Bldg Const Worker Trips	0.79	0.45	9.57	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.80	187.98	235.84	0.00	7.71	7.57	0.14
Max lbs/day all phases	28.80	187.98	235.84	0.00	7.71	7.57	0.14
*** 2008***							

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	28.01	181.63	229.17	-	6.90	6.90	0.00
Bldg Const Worker Trips	0.73	0.42	8.92	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.35	35.57	42.88	-	1.32	1.32	0.00
Asphalt On-Road Diesel	0.02	0.44	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.03	0.02	0.33	0.00	0.01	0.00	0.01
Maximum lbs/day	34.25	218.07	281.39	0.00	8.39	8.24	0.15
Max lbs/day all phases	34.25	218.07	281.39	0.00	8.39	8.24	0.15

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08
SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day

1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.07	-	0.07
Off-Road Diesel	21.44	153.55	166.54	-	6.77	6.77	0.00
On-Road Diesel	0.01	0.25	0.04	0.00	0.00	0.00	0.00
Worker Trips	0.22	0.41	4.46	0.00	0.02	0.01	0.01
Maximum lbs/day	21.67	154.21	171.04	0.00	6.86	6.78	0.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	28.04	-	28.04
Off-Road Diesel	37.73	256.95	301.03	-	10.52	10.52	0.00
On-Road Diesel	4.07	91.11	15.15	1.32	2.09	1.75	0.34
Worker Trips	0.14	0.08	1.68	0.00	0.02	0.00	0.02
Maximum lbs/day	41.94	348.14	317.86	1.32	40.67	12.27	28.40
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	193.45	223.27	-	8.40	8.40	0.00
Bldg Const Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.86	193.93	233.45	0.00	8.55	8.41	0.14
Max lbs/day all phases	41.94	348.14	317.86	1.32	40.67	12.27	28.40
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	187.53	226.27	-	7.56	7.56	0.00
Bldg Const Worker Trips	0.79	0.45	9.57	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.80	187.98	235.84	0.00	7.71	7.57	0.14
Max lbs/day all phases	28.80	187.98	235.84	0.00	7.71	7.57	0.14
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	181.63	229.17	-	6.90	6.90	0.00
Bldg Const Worker Trips	0.73	0.42	8.92	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.35	35.57	42.88	-	1.32	1.32	0.00
Asphalt On-Road Diesel	0.02	0.44	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.03	0.02	0.33	0.00	0.01	0.00	0.01
Maximum lbs/day	34.25	218.07	281.39	0.00	8.39	8.24	0.15
Max lbs/day all phases	34.25	218.07	281.39	0.00	8.39	8.24	0.15

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08

SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.22	2.83	1.26	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	17.51	-	-	-	-
Architectural Coatings	5.95	-	-	-	-
TOTALS(lbs/day,unmitigated)	23.68	2.83	1.26	0.00	0.01

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.22	2.83	1.26	0	0.01
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	17.51	-	-	-	-
Architectural Coatings	5.95	-	-	-	-
TOTALS (lbs/day, mitigated)	23.68	2.83	1.26	0.00	0.01

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	7.13	11.04	80.59	0.09	15.82
Shoreline Retail	5.46	9.15	64.75	0.07	12.85
TOTAL EMISSIONS (lbs/day)	12.59	20.19	145.33	0.15	28.67

Does not include correction for passby trips.
Includes the following double counting adjustment for internal trips:
Residential trips: 17.66 % reduction. Nonresidential trips: 18.08 % reduction.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Condo/townhouse high rise	5.59	4.36 trips/dwelling unit	358.00	1,562.40
Shoreline Retail		111.94 trips/1000 sq. ft.	13.56	1,517.98
		Sum of Total Trips		3,080.37
		Total Vehicle Miles Traveled		18,947.82

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Shoreline Retail				2.0	1.0	97.0

MITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	6.99	10.82	78.98	0.08	15.51
Shoreline Retail	5.35	8.97	63.45	0.07	12.59
TOTAL EMISSIONS (lbs/day)	12.34	19.79	142.43	0.15	28.10
PERCENTAGE REDUCTION %	2	2	2	2	2

Does not include correction for passby trips.
Includes the following double counting adjustment for internal trips:
Residential trips: 17.66 % reduction. Nonresidential trips: 18.08 % reduction.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Condo/townhouse high rise	5.59	4.28 trips/dwelling unit	358.00	1,531.15
Shoreline Retail		109.70 trips/1000 sq. ft.	13.56	1,487.62
		Sum of Total Trips		3,018.77
		Total Vehicle Miles Traveled		18,568.87

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Shoreline Retail				2.0	1.0	97.0

MITIGATION OPTIONS SELECTED

Residential Mitigation Measures
==========

Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2% (calculated as a % of 9.57 trips/day)
Note that the above percent is applied to the 'double counting adjusted' trip rate
to get Mitigated Trips
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Mitigation Measures
==========

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Condominium/townhouse high rise
have changed from the defaults 5.26/5.59 to 5.30/5.59

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Site Grading Fugitive Dust Option changed from Level 1 to Level 2
Site Grading Miles/Round Trip changed from 20 to 40
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.

Changes made to the default values for Operations

The double counting option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2015.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

Construction Start Month and Year: January, 2006
Construction Duration: 34
Total Land Use Area to be Developed: 2.2 acres
Maximum Acreage Disturbed Per Day: 2.2 acres
Single Family Units: 0 Multi-Family Units: 358
Retail/Office/Institutional/Industrial Square Footage: 13561

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.07	-	0.07
Off-Road Diesel	21.44	153.55	166.54	-	6.77	6.77	0.00
On-Road Diesel	0.01	0.25	0.04	0.00	0.00	0.00	0.00
Worker Trips	0.22	0.41	4.46	0.00	0.02	0.01	0.01
Maximum lbs/day	21.67	154.21	171.04	0.00	6.86	6.78	0.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	187.86	-	187.86
Off-Road Diesel	37.73	256.95	301.03	-	10.52	10.52	0.00
On-Road Diesel	4.07	91.11	15.15	1.32	2.09	1.75	0.34
Worker Trips	0.14	0.08	1.68	0.00	0.02	0.00	0.02
Maximum lbs/day	41.94	348.14	317.86	1.32	200.49	12.27	188.22
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	193.45	223.27	-	8.40	8.40	0.00
Bldg Const Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.86	193.93	233.45	0.00	8.55	8.41	0.14
Max lbs/day all phases	41.94	348.14	317.86	1.32	200.49	12.27	188.22
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	187.53	226.27	-	7.56	7.56	0.00
Bldg Const Worker Trips	0.79	0.45	9.57	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.80	187.98	235.84	0.00	7.71	7.57	0.14
Max lbs/day all phases	28.80	187.98	235.84	0.00	7.71	7.57	0.14

*** 2008***

Phase 1 - Demolition Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 2 - Site Grading Emissions

Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Phase 3 - Building Construction

Bldg Const Off-Road Diesel	28.01	181.63	229.17	-	6.90	6.90	0.00
Bldg Const Worker Trips	0.73	0.42	8.92	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.35	35.57	42.88	-	1.32	1.32	0.00
Asphalt On-Road Diesel	0.02	0.44	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.03	0.02	0.33	0.00	0.01	0.00	0.01
Maximum lbs/day	34.25	218.07	281.39	0.00	8.39	8.24	0.15
Max lbs/day all phases	34.25	218.07	281.39	0.00	8.39	8.24	0.15

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08
SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day

1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (lbs/day)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.07	-	0.07
Off-Road Diesel	21.44	153.55	166.54	-	6.77	6.77	0.00
On-Road Diesel	0.01	0.25	0.04	0.00	0.00	0.00	0.00
Worker Trips	0.22	0.41	4.46	0.00	0.02	0.01	0.01
Maximum lbs/day	21.67	154.21	171.04	0.00	6.86	6.78	0.08
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	28.04	-	28.04
Off-Road Diesel	37.73	256.95	301.03	-	10.52	10.52	0.00
On-Road Diesel	4.07	91.11	15.15	1.32	2.09	1.75	0.34
Worker Trips	0.14	0.08	1.68	0.00	0.02	0.00	0.02
Maximum lbs/day	41.94	348.14	317.86	1.32	40.67	12.27	28.40
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	193.45	223.27	-	8.40	8.40	0.00
Bldg Const Worker Trips	0.85	0.48	10.17	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.86	193.93	233.45	0.00	8.55	8.41	0.14
Max lbs/day all phases	41.94	348.14	317.86	1.32	40.67	12.27	28.40
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	187.53	226.27	-	7.56	7.56	0.00
Bldg Const Worker Trips	0.79	0.45	9.57	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	28.80	187.98	235.84	0.00	7.71	7.57	0.14
Max lbs/day all phases	28.80	187.98	235.84	0.00	7.71	7.57	0.14
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Maximum lbs/day	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	28.01	181.63	229.17	-	6.90	6.90	0.00
Bldg Const Worker Trips	0.73	0.42	8.92	0.00	0.15	0.01	0.14
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.12	-	-	-	-	-	-
Asphalt Off-Road Diesel	5.35	35.57	42.88	-	1.32	1.32	0.00
Asphalt On-Road Diesel	0.02	0.44	0.08	0.00	0.01	0.01	0.00
Asphalt Worker Trips	0.03	0.02	0.33	0.00	0.01	0.00	0.01
Maximum lbs/day	34.25	218.07	281.39	0.00	8.39	8.24	0.15
Max lbs/day all phases	34.25	218.07	281.39	0.00	8.39	8.24	0.15

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08

SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.22	2.83	1.26	0	0.01
Hearth - No summer emissions					
Landscaping	0.25	0.01	1.56	0.00	0.01
Consumer Prdcts	17.51	-	-	-	-
Architectural Coatings	5.95	-	-	-	-
TOTALS(lbs/day,unmitigated)	23.93	2.84	2.82	0.00	0.01

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.22	2.83	1.26	0	0.01
Hearth - No summer emissions					
Landscaping	0.25	0.01	1.56	0.00	0.01
Consumer Prdcts	17.51	-	-	-	-
Architectural Coatings	5.95	-	-	-	-
TOTALS (lbs/day, mitigated)	23.93	2.84	2.82	0.00	0.01

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	10.16	7.68	86.27	0.10	15.82
Shoreline Retail	5.06	6.39	67.10	0.08	12.85
TOTAL EMISSIONS (lbs/day)	15.22	14.06	153.38	0.19	28.67

Does not include correction for passby trips.
Includes the following double counting adjustment for internal trips:
Residential trips: 17.66 % reduction. Nonresidential trips: 18.08 % reduction.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Condo/townhouse high rise	5.59	4.36 trips/dwelling unit	358.00	1,562.40
Shoreline Retail		111.94 trips/1000 sq. ft.	13.56	1,517.98
		Sum of Total Trips		3,080.37
		Total Vehicle Miles Traveled		18,947.82

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Shoreline Retail				2.0	1.0	97.0

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Condominium/townhouse high rise
have changed from the defaults 5.26/5.59 to 5.30/5.59

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Site Grading Fugitive Dust Option changed from Level 1 to Level 2
Site Grading Miles/Round Trip changed from 20 to 40
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.

Changes made to the default values for Operations

The double counting option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2015.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shoreline.urb
Project Name: Long Beach Shoreline
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

Construction Start Month and Year: January, 2006
Construction Duration: 34
Total Land Use Area to be Developed: 2.2 acres
Maximum Acreage Disturbed Per Day: 2.2 acres
Single Family Units: 0 Multi-Family Units: 358
Retail/Office/Institutional/Industrial Square Footage: 13561

CONSTRUCTION EMISSION ESTIMATES UNMITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.47	3.38	3.66	-	0.15	0.15	0.00
On-Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.01	0.09	0.00	0.00	0.00	0.00
Total tons/year	0.47	3.40	3.75	0.00	0.15	0.15	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	8.27	-	8.27
Off-Road Diesel	1.66	11.31	13.25	-	0.46	0.46	0.00
On-Road Diesel	0.18	3.44	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.01	0.00	0.07	0.00	0.00	0.00	0.00
Total tons/year	1.85	14.75	13.99	0.06	8.82	0.54	8.28
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	1.85	12.77	14.74	-	0.55	0.55	0.00
Bldg Const Worker Trips	0.05	0.03	0.65	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	1.90	12.80	15.39	0.00	0.56	0.55	0.01
Total all phases tons/yr	4.22	30.95	33.13	0.06	9.53	1.24	8.29
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.70	24.75	29.87	-	1.00	1.00	0.00
Bldg Const Worker Trips	0.10	0.05	1.23	0.00	0.02	0.00	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	3.80	24.80	31.10	0.00	1.02	1.00	0.02
Total all phases tons/yr	3.80	24.80	31.10	0.00	1.02	1.00	0.02

*** 2008***

Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.77	17.98	22.69	-	0.68	0.68	0.00
Bldg Const Worker Trips	0.07	0.04	0.88	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.06	0.39	0.47	-	0.01	0.01	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.90	18.41	24.04	0.00	0.70	0.69	0.01
Total all phases tons/yr	2.90	18.41	24.04	0.00	0.70	0.69	0.01

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08
SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day

1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

CONSTRUCTION EMISSION ESTIMATES MITIGATED (tons/year)

Source	ROG	NOx	CO	SO2	PM10 TOTAL	PM10 EXHAUST	PM10 DUST
*** 2006***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.47	3.38	3.66	-	0.15	0.15	0.00
On-Road Diesel	0.00	0.01	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.01	0.09	0.00	0.00	0.00	0.00
Total tons/year	0.47	3.40	3.75	0.00	0.15	0.15	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	1.23	-	1.23
Off-Road Diesel	1.66	11.31	13.25	-	0.46	0.46	0.00
On-Road Diesel	0.18	3.44	0.67	0.06	0.09	0.08	0.01
Worker Trips	0.01	0.00	0.07	0.00	0.00	0.00	0.00
Total tons/year	1.85	14.75	13.99	0.06	1.78	0.54	1.24
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	1.85	12.77	14.74	-	0.55	0.55	0.00
Bldg Const Worker Trips	0.05	0.03	0.65	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	1.90	12.80	15.39	0.00	0.56	0.55	0.01
Total all phases tons/yr	4.22	30.95	33.13	0.06	2.49	1.24	1.25
*** 2007***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	3.70	24.75	29.87	-	1.00	1.00	0.00
Bldg Const Worker Trips	0.10	0.05	1.23	0.00	0.02	0.00	0.02
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	3.80	24.80	31.10	0.00	1.02	1.00	0.02
Total all phases tons/yr	3.80	24.80	31.10	0.00	1.02	1.00	0.02
*** 2008***							
Phase 1 - Demolition Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00
On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 2 - Site Grading Emissions							
Fugitive Dust	-	-	-	-	0.00	-	0.00
Off-Road Diesel	0.00	0.00	0.00	-	0.00	0.00	0.00

On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Phase 3 - Building Construction							
Bldg Const Off-Road Diesel	2.77	17.98	22.69	-	0.68	0.68	0.00
Bldg Const Worker Trips	0.07	0.04	0.88	0.00	0.01	0.00	0.01
Arch Coatings Off-Gas	0.00	-	-	-	-	-	-
Arch Coatings Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Off-Gas	0.00	-	-	-	-	-	-
Asphalt Off-Road Diesel	0.06	0.39	0.47	-	0.01	0.01	0.00
Asphalt On-Road Diesel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Asphalt Worker Trips	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total tons/year	2.90	18.41	24.04	0.00	0.70	0.69	0.01
Total all phases tons/yr	2.90	18.41	24.04	0.00	0.70	0.69	0.01

Construction-Related Mitigation Measures

Phase 2: Soil Disturbance: Apply soil stabilizers to inactive areas
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Soil Disturbance: Replace ground cover in disturbed areas quickly
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 15.0%)
Phase 2: Soil Disturbance: Water exposed surfaces - 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 34.0%)
Phase 2: Stockpiles: Cover all stock piles with tarps
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 9.5%)
Phase 2: Unpaved Roads: Water all haul roads 2x daily
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 30.0%)
Phase 2: Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
Percent Reduction(ROG 0.0% NOx 0.0% CO 0.0% SO2 0.0% PM10 40.0%)

Phase 1 - Demolition Assumptions
Start Month/Year for Phase 1: Jan '06
Phase 1 Duration: 2 months
Building Volume Total (cubic feet): 294120
Building Volume Daily (cubic feet): 160
On-Road Truck Travel (VMT): 9
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
2	Crushing/Processing Equip	154	0.780	8.0
2	Off Highway Tractors	255	0.410	8.0
2	Off Highway Trucks	417	0.490	8.0
2	Signal Boards	119	0.820	8.0

Phase 2 - Site Grading Assumptions
Start Month/Year for Phase 2: Mar '06
Phase 2 Duration: 4 months
On-Road Truck Travel (VMT): 3180
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Bore/Drill Rigs	218	0.750	8.0
1	Cranes	190	0.430	8.0
2	Excavators	180	0.580	8.0
1	Graders	174	0.575	8.0
2	Off Highway Tractors	255	0.410	8.0
3	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
3	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

Phase 3 - Building Construction Assumptions
Start Month/Year for Phase 3: Jul '06
Phase 3 Duration: 28 months
Start Month/Year for SubPhase Building: Jul '06
SubPhase Building Duration: 27 months
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
2	Cranes	190	0.430	8.0
1	Off Highway Tractors	255	0.410	8.0
4	Off Highway Trucks	417	0.490	8.0
2	Other Equipment	190	0.620	8.0
2	Signal Boards	119	0.820	8.0
2	Tractor/Loaders/Backhoes	79	0.465	8.0

SubPhase Architectural Coatings Turned OFF
Start Month/Year for SubPhase Asphalt: Sep '08

SubPhase Asphalt Duration: 1 months
Acres to be Paved: 1
Off-Road Equipment

No.	Type	Horsepower	Load Factor	Hours/Day
1	Other Equipment	190	0.620	8.0
1	Pavers	132	0.590	8.0
1	Paving Equipment	111	0.530	8.0
1	Rollers	114	0.430	8.0

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.52	0.23	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.02	0.00	0.14	0.00	0.00
Consumer Prdcts	3.20	-	-	-	-
Architectural Coatings	0.79	-	-	-	-
TOTALS (tpy, unmitigated)	4.04	0.52	0.37	0.00	0.00

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Mitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.04	0.52	0.23	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.02	0.00	0.14	0.00	0.00
Consumer Prdcts	3.20	-	-	-	-
Architectural Coatings	0.79	-	-	-	-
TOTALS (tpy, mitigated)	4.04	0.52	0.37	0.00	0.00

Area Source Mitigation Measures

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	1.67	1.61	15.40	0.02	2.89
Shoreline Retail	0.95	1.33	12.10	0.01	2.35
TOTAL EMISSIONS (tons/yr)	2.62	2.94	27.50	0.03	5.23

Does not include correction for passby trips.
Includes the following double counting adjustment for internal trips:
Residential trips: 17.66 % reduction. Nonresidential trips: 18.08 % reduction.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Condo/townhouse high rise	5.59	4.36 trips/dwelling unit	358.00	1,562.40
Shoreline Retail		111.94 trips/1000 sq. ft.	13.56	1,517.98
		Sum of Total Trips		3,080.37
		Total Vehicle Miles Traveled		18,947.82

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Shoreline Retail				2.0	1.0	97.0

MITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Condo/townhouse high rise	1.65	1.57	15.09	0.02	2.83
Shoreline Retail	0.93	1.31	11.86	0.01	2.30
TOTAL EMISSIONS (tons/yr)	2.58	2.88	26.95	0.03	5.13
PERCENTAGE REDUCTION %	2	2	2	2	2

Does not include correction for passby trips.
Includes the following double counting adjustment for internal trips:
Residential trips: 17.66 % reduction. Nonresidential trips: 18.08 % reduction.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Condo/townhouse high rise	5.59	4.36 trips/dwelling unit	358.00	1,562.40
Shoreline Retail		111.94 trips/1000 sq. ft.	13.56	1,517.98
		Sum of Total Trips		3,080.37
		Total Vehicle Miles Traveled		18,947.82

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			
% of Trips - Commercial (by land use)						
Shoreline Retail				2.0	1.0	97.0

MITIGATION OPTIONS SELECTED

Residential Mitigation Measures

Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2% (calculated as a % of 9.57 trips/day)
Note that the above percent is applied to the 'double counting adjusted' trip rate to get Mitigated Trips
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Non-Residential Mitigation Measures

Non-Residential Local-Serving Retail Mitigation

Percent Reduction in Trips is 2%
Inputs Selected:
The Presence of Local-Serving Retail checkbox was selected.

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Condominium/townhouse high rise
have changed from the defaults 5.26/5.59 to 5.30/5.59

Changes made to the default values for Construction

The user has overridden the Default Phase Lengths
Site Grading Fugitive Dust Option changed from Level 1 to Level 2
Site Grading Miles/Round Trip changed from 20 to 40
Phase 2 mitigation measure Soil Disturbance: Apply soil stabilizers to inactive areas
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Replace ground cover in disturbed areas quickly
has been changed from off to on.
Phase 2 mitigation measure Soil Disturbance: Water exposed surfaces - 2x daily
has been changed from off to on.
Phase 2 mitigation measure Stockpiles: Cover all stock piles with tarps
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Water all haul roads 2x daily
has been changed from off to on.
Phase 2 mitigation measure Unpaved Roads: Reduce speed on unpaved roads to < 15 mph
has been changed from off to on.

Changes made to the default values for Area

The hearth option switch changed from on to off.
The area souce mitigation measure option switch changed from off to on.

Changes made to the default values for Operations

The double counting option switch changed from off to on.
The mitigation option switch changed from off to on.
The operational emission year changed from 2005 to 2015.
The Res and Non-Res Local-Serving Retail Mitigation changed from off to on.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4.75	0.71	1.64	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	2.61	2.13	22.88	0.03	4.31

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	7.36	2.84	24.52	0.03	4.32

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	4.57	0.69	0.38	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	1.90	3.05	21.82	0.02	4.31

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (lbs/day,unmitigated)	6.47	3.74	22.20	0.02	4.32

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

SUMMARY REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.78	0.13	0.18	0.00	0.00

OPERATIONAL (VEHICLE) EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	0.43	0.44	4.11	0.00	0.79

SUM OF AREA AND OPERATIONAL EMISSION ESTIMATES

	ROG	NOx	CO	SO2	PM10
TOTALS (tpy, unmitigated)	1.22	0.57	4.29	0.00	0.79

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Winter)

AREA SOURCE EMISSION ESTIMATES (Winter Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.05	0.69	0.38	0	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping - No winter emissions					
Consumer Prdcts	3.18	-	-	-	-
Architectural Coatings	1.34	-	-	-	-
TOTALS(lbs/day,unmitigated)	4.57	0.69	0.38	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments low rise	0.70	1.06	7.71	0.01	1.51
Existing retail	1.20	1.99	14.11	0.01	2.80
TOTAL EMISSIONS (lbs/day)	1.90	3.05	21.82	0.02	4.31

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 50 Season: Winter

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments low rise	4.06	2.30 trips/dwelling unit	65.00	149.50
Existing retail		15.77 trips/1000 sq. ft.	20.98	330.87
		Sum of Total Trips		480.37
		Total Vehicle Miles Traveled		2,851.78

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Existing retail	2.0	1.0	97.0

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/4.06 to 2.3/4.06

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2015.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2015.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Pounds/Day - Summer)

AREA SOURCE EMISSION ESTIMATES (Summer Pounds per Day, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.05	0.69	0.38	0	0.00
Hearth - No summer emissions					
Landscaping	0.18	0.02	1.26	0.00	0.00
Consumer Prdcts	3.18	-	-	-	-
Architectural Coatings	1.34	-	-	-	-
TOTALS(lbs/day,unmitigated)	4.75	0.71	1.64	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments low rise	1.31	0.73	8.26	0.01	1.51
Existing retail	1.30	1.39	14.63	0.02	2.80
TOTAL EMISSIONS (lbs/day)	2.61	2.13	22.88	0.03	4.31

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Temperature (F): 90 Season: Summer

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments low rise	4.06	2.30 trips/dwelling unit	65.00	149.50
Existing retail		15.77 trips/1000 sq. ft.	20.98	330.87
		Sum of Total Trips		480.37
		Total Vehicle Miles Traveled		2,851.78

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Existing retail	2.0	1.0	97.0

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/4.06 to 2.3/4.06

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2015.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2015.

URBEMIS 2002 For Windows 8.7.0

File Name: H:\COMMON\MC Files\URBEMIS2002v8.7\LBC-Shorline existing 2015.urb
Project Name: LBC - Shoreline Existing Scenario
Project Location: South Coast Air Basin (Los Angeles area)
On-Road Motor Vehicle Emissions Based on EMFAC2002 version 2.2

DETAIL REPORT
(Tons/Year)

AREA SOURCE EMISSION ESTIMATES (Tons per Year, Unmitigated)

Source	ROG	NOx	CO	SO2	PM10
Natural Gas	0.01	0.13	0.07	0.00	0.00
Hearth	0.00	0.00	0.00	0.00	0.00
Landscaping	0.02	0.00	0.11	0.00	0.00
Consumer Prdcts	0.58	-	-	-	-
Architectural Coatings	0.18	-	-	-	-
TOTALS (tpy, unmitigated)	0.78	0.13	0.18	0.00	0.00

UNMITIGATED OPERATIONAL EMISSIONS

	ROG	NOx	CO	SO2	PM10
Apartments low rise	0.20	0.15	1.47	0.00	0.28
Existing retail	0.23	0.29	2.64	0.00	0.51
TOTAL EMISSIONS (tons/yr)	0.43	0.44	4.11	0.00	0.79

Does not include correction for passby trips.
Does not include double counting adjustment for internal trips.

OPERATIONAL (Vehicle) EMISSION ESTIMATES

Analysis Year: 2015 Season: Annual

EMFAC Version: EMFAC2002 (9/2002)

Summary of Land Uses:

Unit Type	Acreage	Trip Rate	No. Units	Total Trips
Apartments low rise	4.06	2.30 trips/dwelling unit	65.00	149.50
Existing retail		15.77 trips/1000 sq. ft.	20.98	330.87
		Sum of Total Trips		480.37
		Total Vehicle Miles Traveled		2,851.78

Vehicle Assumptions:

Fleet Mix:

Vehicle Type	Percent Type	Non-Catalyst	Catalyst	Diesel
Light Auto	54.40	0.40	99.40	0.20
Light Truck < 3,750 lbs	15.30	0.70	98.00	1.30
Light Truck 3,751- 5,750	16.40	0.60	98.80	0.60
Med Truck 5,751- 8,500	7.30	0.00	98.60	1.40
Lite-Heavy 8,501-10,000	1.10	0.00	81.80	18.20
Lite-Heavy 10,001-14,000	0.30	0.00	66.70	33.30
Med-Heavy 14,001-33,000	1.00	0.00	20.00	80.00
Heavy-Heavy 33,001-60,000	0.80	0.00	0.00	100.00
Line Haul > 60,000 lbs	0.00	0.00	0.00	100.00
Urban Bus	0.20	0.00	50.00	50.00
Motorcycle	1.60	50.00	50.00	0.00
School Bus	0.10	0.00	0.00	100.00
Motor Home	1.50	0.00	93.30	6.70

Travel Conditions

	Residential			Commercial		
	Home-Work	Home-Shop	Home-Other	Commute	Non-Work	Customer
Urban Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Rural Trip Length (miles)	11.5	4.9	6.0	10.3	5.5	5.5
Trip Speeds (mph)	35.0	40.0	40.0	40.0	40.0	40.0
% of Trips - Residential	20.0	37.0	43.0			

% of Trips - Commercial (by land use)

Existing retail	2.0	1.0	97.0

Changes made to the default values for Land Use Trip Percentages

The Trip Rate and/or Acreage values for Apartments low rise
have changed from the defaults 6.9/4.06 to 2.3/4.06

Changes made to the default values for Area

The hearth option switch changed from on to off.
The landscape year changed from 2005 to 2015.

Changes made to the default values for Operations

The operational emission year changed from 2005 to 2015.

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                            Table   1:  Running Exhaust Emissions (grams/mile)


     Pollutant Name: Reactive Org Gases        Temperature:  40F  Relative Humidity:
  0%

     Speed
      MPH        LDA       LDT       MDT       HDT       UBUS      MCY       ALL

        5       0.255     0.474     0.635     1.014     5.379     5.495     0.424
       35       0.045     0.092     0.122     0.265     0.917     2.304     0.086


     Pollutant Name: Carbon Monoxide           Temperature:  40F  Relative Humidity:
  0%

     Speed
      MPH        LDA       LDT       MDT       HDT       UBUS      MCY       ALL

        5       3.620     6.980     7.658     9.920    39.879    34.007     5.445
       35       1.885     3.313     3.390     2.032     7.527    22.272     2.485


     Pollutant Name: Oxides of Nitrogen        Temperature:  40F  Relative Humidity:
  0%

     Speed
      MPH        LDA       LDT       MDT       HDT       UBUS      MCY       ALL

        5       0.403     0.859     1.392     7.071    22.912     1.549     1.067
       35       0.232     0.493     0.824     4.121    11.259     1.536     0.612


     Pollutant Name: Carbon Dioxide            Temperature:  40F  Relative Humidity:
  0%

     Speed
      MPH        LDA       LDT       MDT       HDT       UBUS      MCY       ALL

        5     952.377  1184.125  1682.417  2064.039  2599.102   257.844  1138.848
       35     309.992   386.437   522.735  1813.359  1689.154   134.027   433.458


     Pollutant Name: Sulfur Dioxide            Temperature:  40F  Relative Humidity:
```

0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.009	0.012	0.016	0.020	0.026	0.003	0.011
35	0.003	0.004	0.005	0.017	0.016	0.002	0.004

Pollutant Name: PM10 Temperature: 40F Relative Humidity:
0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.058	0.109	0.124	0.347	0.525	0.038	0.094
35	0.010	0.019	0.023	0.112	0.125	0.018	0.019

Pollutant Name: PM10 - Tire Wear Temperature: 40F Relative Humidity:
0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.008	0.008	0.009	0.028	0.010	0.004	0.009
35	0.008	0.008	0.009	0.028	0.010	0.004	0.009

Pollutant Name: PM10 - Break Wear Temperature: 40F Relative Humidity:
0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.013	0.013	0.013	0.013	0.013	0.013	0.013
35	0.013	0.013	0.013	0.013	0.013	0.013	0.013

Pollutant Name: Gasoline - mi/gal Temperature: 40F Relative Humidity:
0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	9.232	7.372	5.111	3.422	3.328	25.699	8.364
35	28.300	22.587	16.678	17.317	16.903	48.411	25.690

Pollutant Name: Diesel - mi/gal Temperature: 40F Relative Humidity:
0%

Speed MPH	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	27.901	29.025	21.671	5.173	3.776	0.000	7.320
35	27.901	29.025	21.671	5.173	3.776	0.000	7.320

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average
```

Table 2: Starting Emissions (grams/trip)

Pollutant Name: Reactive Org Gases Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.096	0.130	0.246	0.592	0.830	2.100	0.161
10	0.174	0.230	0.441	0.913	1.276	2.347	0.273
20	0.319	0.417	0.804	1.510	2.106	2.848	0.484
30	0.450	0.586	1.133	2.047	2.851	3.358	0.674
40	0.568	0.738	1.428	2.524	3.514	3.876	0.845
50	0.672	0.872	1.689	2.940	4.093	4.402	0.995
60	0.760	0.987	1.911	3.271	4.552	4.751	1.122
120	0.867	1.065	1.840	1.926	2.538	3.301	1.106
180	0.465	0.602	1.313	2.048	2.700	2.665	0.705
240	0.493	0.638	1.390	2.167	2.857	2.849	0.746
300	0.520	0.673	1.466	2.283	3.010	3.030	0.787
360	0.546	0.707	1.541	2.395	3.158	3.208	0.827
420	0.571	0.741	1.613	2.503	3.302	3.384	0.865
480	0.597	0.773	1.684	2.609	3.442	3.558	0.903
540	0.621	0.805	1.754	2.711	3.577	3.730	0.940
600	0.645	0.836	1.822	2.809	3.708	3.899	0.976
660	0.668	0.867	1.888	2.904	3.834	4.065	1.011
720	0.691	0.896	1.952	2.996	3.956	4.230	1.045

Pollutant Name: Carbon Monoxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.999	1.409	2.799	8.637	9.734	5.309	1.797
10	1.916	2.684	5.330	15.793	17.906	7.015	3.377
20	3.656	5.100	10.117	29.209	33.226	10.250	6.363
30	5.269	7.336	14.535	41.430	47.179	13.249	9.115
40	6.755	9.393	18.585	52.456	59.766	16.010	11.633

50	8.114	11.271	22.265	62.287	70.986	18.536	13.917
60	9.347	12.969	25.577	70.924	80.840	20.824	15.966
120	11.912	15.585	23.193	28.652	30.845	22.197	15.227
180	6.457	8.905	13.857	30.038	32.314	12.015	9.405
240	6.846	9.429	14.644	31.390	33.747	13.778	9.939
300	7.203	9.912	15.375	32.707	35.146	15.363	10.435
360	7.528	10.355	16.048	33.989	36.511	16.772	10.894
420	7.822	10.756	16.664	35.237	37.841	18.004	11.314
480	8.084	11.116	17.222	36.450	39.137	19.059	11.697
540	8.314	11.436	17.723	37.629	40.398	19.938	12.042
600	8.512	11.714	18.167	38.773	41.625	20.640	12.349
660	8.678	11.952	18.553	39.883	42.817	21.166	12.619
720	8.813	12.149	18.883	40.958	43.975	21.514	12.850

Pollutant Name: Oxides of Nitrogen Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.182	0.312	0.875	0.725	1.142	0.222	0.329
10	0.209	0.356	1.026	1.085	1.713	0.263	0.396
20	0.258	0.434	1.291	1.717	2.715	0.336	0.513
30	0.298	0.499	1.511	2.233	3.532	0.397	0.610
40	0.330	0.550	1.684	2.631	4.163	0.446	0.686
50	0.354	0.589	1.811	2.913	4.609	0.483	0.741
60	0.369	0.614	1.892	3.078	4.870	0.508	0.775
120	0.392	0.657	2.011	3.173	5.020	0.524	0.819
180	0.431	0.719	2.070	3.161	5.001	0.521	0.863
240	0.428	0.714	2.056	3.142	4.972	0.511	0.857
300	0.423	0.706	2.035	3.117	4.933	0.497	0.849
360	0.417	0.695	2.007	3.086	4.884	0.481	0.837
420	0.410	0.682	1.972	3.048	4.825	0.462	0.823
480	0.400	0.667	1.929	3.004	4.756	0.440	0.806
540	0.389	0.648	1.880	2.954	4.678	0.416	0.786
600	0.377	0.627	1.823	2.898	4.589	0.389	0.764
660	0.363	0.603	1.760	2.835	4.490	0.359	0.738
720	0.347	0.576	1.689	2.766	4.382	0.326	0.710

Pollutant Name: Carbon Dioxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	11.316	13.937	18.044	5.225	6.733	18.469	12.427
10	13.312	16.479	22.460	8.474	11.092	20.852	14.923
20	17.719	22.062	31.857	14.909	19.729	25.514	20.337
30	22.676	28.309	42.009	21.262	28.256	30.038	26.312
40	28.183	35.220	52.916	27.532	36.673	34.425	32.850
50	34.242	42.795	64.577	33.719	44.982	38.674	39.949
60	40.850	51.034	76.993	39.824	53.180	42.785	47.611
120	89.626	111.147	159.695	66.360	88.803	61.499	101.760
180	102.311	126.930	183.416	77.434	103.756	64.732	116.387
240	114.830	142.488	206.572	87.854	117.826	67.776	130.756
300	127.183	157.819	229.165	97.621	131.014	70.630	144.867
360	139.369	172.926	251.195	106.735	143.320	73.297	158.721
420	151.390	187.807	272.660	115.195	154.743	75.774	172.318

480	163.244	202.463	293.561	123.002	165.285	78.063	185.658
540	174.933	216.893	313.899	130.156	174.944	80.163	198.739
600	186.455	231.098	333.673	136.656	183.721	82.074	211.564
660	197.811	245.077	352.883	142.503	191.615	83.796	224.131
720	209.001	258.831	371.529	147.697	198.628	85.330	236.441

Pollutant Name: Sulfur Dioxide Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000
10	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	0.000	0.000	0.001	0.001	0.001	0.001	0.000
30	0.000	0.000	0.001	0.001	0.001	0.001	0.000
40	0.000	0.001	0.001	0.001	0.001	0.001	0.001
50	0.000	0.001	0.001	0.001	0.002	0.001	0.001
60	0.001	0.001	0.001	0.002	0.002	0.001	0.001
120	0.001	0.001	0.002	0.001	0.001	0.001	0.001
180	0.001	0.001	0.002	0.001	0.002	0.001	0.001
240	0.001	0.002	0.002	0.001	0.002	0.001	0.001
300	0.001	0.002	0.003	0.002	0.002	0.001	0.002
360	0.001	0.002	0.003	0.002	0.002	0.001	0.002
420	0.002	0.002	0.003	0.002	0.002	0.001	0.002
480	0.002	0.002	0.003	0.002	0.002	0.001	0.002
540	0.002	0.002	0.003	0.002	0.003	0.001	0.002
600	0.002	0.002	0.004	0.002	0.003	0.001	0.002
660	0.002	0.003	0.004	0.002	0.003	0.001	0.002
720	0.002	0.003	0.004	0.002	0.003	0.001	0.003

Pollutant Name: PM10 Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
5	0.001	0.001	0.001	0.001	0.001	0.010	0.001
10	0.001	0.002	0.003	0.001	0.001	0.009	0.002
20	0.002	0.005	0.005	0.002	0.003	0.007	0.003
30	0.004	0.007	0.007	0.002	0.004	0.006	0.005
40	0.005	0.009	0.009	0.003	0.005	0.004	0.006
50	0.006	0.010	0.011	0.004	0.006	0.004	0.007
60	0.007	0.012	0.013	0.004	0.006	0.003	0.008
120	0.010	0.018	0.019	0.006	0.009	0.007	0.013
180	0.011	0.020	0.020	0.006	0.009	0.011	0.014
240	0.012	0.021	0.022	0.006	0.009	0.014	0.015
300	0.012	0.023	0.023	0.006	0.010	0.017	0.016
360	0.013	0.024	0.024	0.006	0.010	0.020	0.017
420	0.014	0.025	0.025	0.007	0.010	0.022	0.017
480	0.014	0.026	0.026	0.007	0.011	0.024	0.018
540	0.014	0.026	0.026	0.007	0.011	0.025	0.018
600	0.015	0.027	0.027	0.007	0.011	0.026	0.019
660	0.015	0.027	0.027	0.007	0.012	0.027	0.019
720	0.015	0.028	0.028	0.008	0.012	0.027	0.019

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table   4:  Hot Soak Emissions (grams/trip)


     Pollutant Name: Reactive Org Gases        Temperature:  40F  Relative Humidity:
ALL

     Time
      min       LDA      LDT      MDT      HDT      UBUS     MCY      ALL

        5      0.013    0.017    0.015    0.008    0.037    0.031    0.014
       10      0.025    0.033    0.029    0.015    0.069    0.060    0.027
       20      0.047    0.060    0.055    0.028    0.121    0.108    0.050
       30      0.064    0.083    0.077    0.040    0.161    0.147    0.070
       40      0.072    0.093    0.087    0.046    0.177    0.164    0.078

Hot soak results are scaled to reflect zero emissions for trip lengths of less than
5 minutes (about 25% of in-use trips).
```

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table  5a:  Partial Day Diurnal Loss Emissions
(grams/hour)

     Pollutant Name: Reactive Org Gases        Temperature: ALL   Relative Humidity:
ALL
```

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table  5b:  Multi-Day Diurnal Loss Emissions
(grams/hour)

     Pollutant Name: Reactive Org Gases        Temperature: ALL   Relative Humidity:
ALL
```

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table  6a:  Partial Day Resting Loss Emissions
(grams/hour)

     Pollutant Name: Reactive Org Gases        Temperature: ALL   Relative Humidity:
ALL
```

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table  6b:  Multi-Day Resting Loss Emissions
(grams/hour)

     Pollutant Name: Reactive Org Gases        Temperature: ALL   Relative Humidity:
ALL
```

Temp degF	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
40	0.000	0.000	0.000	0.000	0.000	0.000	0.000

```
Title    : Los Angeles County Avg 2015 Winter Default Title
Version  : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season   : Winter
Area     : Los Angeles County
*******************************************************************************
*****
     Year:2015 -- Model Years 1970 to 2015 Inclusive --  Winter
     Emfac2002 Emission Factors: V2.2 Sept 23 2002

     County Average                          Los Angeles Count          County
Average

                              Table   7:  Estimated Travel Fractions


     Pollutant Name:                           Temperature: ALL   Relative Humidity:
ALL
```

	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
%VMT	0.588	0.271	0.081	0.053	0.005	0.003	1.000
%TRIP	0.562	0.257	0.116	0.060	0.001	0.004	1.000
%VEH	0.599	0.276	0.080	0.029	0.001	0.013	1.000

Title : Los Angeles County Avg 2015 Winter Default Title
Version : Emfac2002 V2.2 Sept 23 2002
Run Date : 05/10/06 13:29:50
Scen Year: 2015 -- Model Years: 1970 to 2015
Season : Winter
Area : Los Angeles County
****
*****

Year:2015 -- Model Years 1970 to 2015 Inclusive -- Winter
Emfac2002 Emission Factors: V2.2 Sept 23 2002

County Average Los Angeles Count County Average

Table 8: Evaporative Running Loss Emissions (grams/minute)

Pollutant Name: Reactive Org Gases Temperature: 40F Relative Humidity: ALL

Time min	LDA	LDT	MDT	HDT	UBUS	MCY	ALL
1	0.023	0.557	0.626	0.267	0.743	0.021	0.233
2	0.022	0.289	0.325	0.139	0.391	0.059	0.127
3	0.024	0.202	0.227	0.096	0.276	0.079	0.094
4	0.027	0.161	0.180	0.075	0.219	0.092	0.079
5	0.029	0.136	0.152	0.063	0.186	0.101	0.071
10	0.034	0.091	0.099	0.038	0.121	0.124	0.056
15	0.038	0.080	0.086	0.031	0.103	0.138	0.053
20	0.040	0.078	0.082	0.027	0.096	0.149	0.054
25	0.043	0.079	0.083	0.026	0.094	0.159	0.056
30	0.044	0.082	0.085	0.026	0.097	0.165	0.058
35	0.046	0.085	0.088	0.026	0.099	0.171	0.059
40	0.047	0.088	0.090	0.026	0.102	0.176	0.061
45	0.049	0.090	0.092	0.026	0.105	0.181	0.063
50	0.049	0.093	0.094	0.026	0.107	0.185	0.064
55	0.050	0.095	0.097	0.027	0.109	0.189	0.065
60	0.050	0.097	0.099	0.027	0.112	0.192	0.066

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

     JOB: Magnolia-6th Street
     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=  6.0 PPM
  SIGTH=   10. DEGREES       TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	0	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	0	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	1656	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	1537	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	1641	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	495	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	495	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	611	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	524	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	420	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	420	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	104	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	119	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Magnolia-6th Street
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	302.	6.3	.0	.0	.0	.0	.0	.1	.0	.0
2. Recpt 2	302.	6.3	.0	.0	.0	.0	.0	.1	.0	.0
3. Recpt 3	294.	6.3	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	289.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
5. Recpt 5	262.	6.3	.0	.0	.0	.0	.1	.0	.0	.0
6. Recpt 6	212.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	206.	6.3	.0	.0	.0	.0	.0	.0	.0	.1
8. Recpt 8	201.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	165.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
10. Recpt 10	74.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
11. Recpt 11	6.	6.3	.0	.0	.0	.0	.1	.0	.0	.0
12. Recpt 12	355.	6.3	.0	.0	.0	.0	.1	.0	.0	.0
13. Recpt 13	323.	6.5	.0	.0	.0	.0	.2	.1	.0	.0
14. Recpt 14	322.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
15. Recpt 15	322.	6.3	.0	.0	.0	.0	.0	.2	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Magnolia-6th Street
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Pacific-3rd
     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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	1140	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	1049	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	0	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	0	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	0	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	625	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	511	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	511	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	453	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	453	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	544	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	114	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	0	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	0	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	91	5.4	.0	9.9

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

     JOB: Pacific-3rd
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	307.	6.4	.1	.2	.0	.0	.0	.0	.0	.0
2. Recpt 2	310.	6.6	.2	.3	.0	.0	.0	.0	.0	.0
3. Recpt 3	288.	6.4	.0	.3	.0	.0	.0	.0	.0	.0
4. Recpt 4	268.	6.4	.0	.3	.0	.0	.0	.0	.0	.0
5. Recpt 5	234.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	208.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	195.	6.3	.0	.0	.0	.0	.0	.0	.0	.1
8. Recpt 8	155.	6.4	.0	.2	.0	.0	.0	.0	.0	.0
9. Recpt 9	139.	6.2	.0	.1	.0	.0	.0	.0	.0	.0
10. Recpt 10	103.	6.2	.0	.1	.0	.0	.0	.0	.0	.0
11. Recpt 11	23.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	22.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	359.	6.3	.0	.2	.0	.0	.0	.0	.0	.0
14. Recpt 14	346.	6.3	.0	.2	.0	.0	.0	.0	.0	.0
15. Recpt 15	338.	6.3	.0	.2	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pacific-3rd
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Pacific-Broadway
     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=  6.0 PPM
  SIGTH=    10. DEGREES        TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	0	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	0	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2398	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2286	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2505	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	777	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	777	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	889	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	490	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	271	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	271	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	219	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	112	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Pacific-Broadway
     RUN: Hour 1            (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	302.	6.4	.0	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	302.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
3. Recpt 3	294.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	289.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
5. Recpt 5	263.	6.4	.0	.0	.0	.0	.2	.0	.0	.1
6. Recpt 6	213.	6.3	.0	.0	.0	.0	.0	.0	.0	.1
7. Recpt 7	206.	6.4	.0	.0	.0	.0	.0	.0	.0	.2
8. Recpt 8	202.	6.4	.0	.0	.0	.0	.1	.0	.0	.0
9. Recpt 9	165.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
10. Recpt 10	74.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	6.	6.3	.0	.0	.0	.0	.1	.0	.0	.0
12. Recpt 12	355.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	323.	6.6	.0	.0	.0	.0	.3	.2	.0	.0
14. Recpt 14	323.	6.5	.0	.0	.0	.0	.2	.3	.0	.0
15. Recpt 15	322.	6.5	.0	.0	.0	.0	.1	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pacific-Broadway
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Pine-Broadway
     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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	0	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	0	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2615	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2563	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2812	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	465	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	465	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	517	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	434	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	185	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	185	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	249	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	52	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Pine-Broadway
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	302.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
2. Recpt 2	302.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
3. Recpt 3	294.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	288.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
5. Recpt 5	262.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	213.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	206.	6.3	.0	.0	.0	.0	.0	.0	.0	.1
8. Recpt 8	202.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
9. Recpt 9	165.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
10. Recpt 10	74.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	5.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
12. Recpt 12	354.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	323.	6.6	.0	.0	.0	.0	.3	.2	.0	.0
14. Recpt 14	323.	6.6	.0	.0	.0	.0	.2	.3	.0	.0
15. Recpt 15	322.	6.5	.0	.0	.0	.0	.1	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine-Broadway
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Pine-Ocean
     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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	1802	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	1614	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	1707	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2316	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2211	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2348	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	349	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	256	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	361	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	413	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	276	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	464	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	93	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	105	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	137	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	188	5.4	.0	9.9

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

     JOB: Pine-Ocean
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	305.	6.8	.2	.3	.0	.0	.1	.1	.0	.0
2. Recpt 2	307.	7.2	.3	.5	.0	.0	.1	.0	.0	.0
3. Recpt 3	293.	6.8	.0	.4	.0	.0	.2	.0	.0	.0
4. Recpt 4	287.	6.9	.0	.4	.0	.0	.3	.0	.0	.0
5. Recpt 5	262.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	210.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	191.	6.4	.0	.1	.0	.0	.0	.0	.0	.0
8. Recpt 8	157.	6.6	.0	.3	.0	.0	.0	.1	.0	.0
9. Recpt 9	164.	6.6	.0	.0	.2	.0	.3	.0	.0	.0
10. Recpt 10	81.	6.5	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	4.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
12. Recpt 12	354.	6.4	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	327.	6.7	.0	.0	.1	.0	.2	.2	.0	.0
14. Recpt 14	339.	6.7	.0	.2	.0	.0	.0	.3	.0	.0
15. Recpt 15	333.	6.6	.0	.2	.0	.0	.0	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Pine-Ocean
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Orange-Ocean
     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=  6.0 PPM
  SIGTH=   10. DEGREES       TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	1455	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	1455	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	1455	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2481	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2477	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2501	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	0	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	0	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	4	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	77	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	53	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	53	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	24	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	4	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Orange-Ocean
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	305.	6.7	.2	.2	.0	.0	.1	.1	.0	.0
2. Recpt 2	306.	7.0	.2	.4	.0	.0	.1	.1	.0	.0
3. Recpt 3	293.	6.7	.0	.4	.0	.0	.2	.0	.0	.0
4. Recpt 4	288.	6.7	.0	.3	.0	.0	.3	.0	.0	.0
5. Recpt 5	261.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	227.	6.2	.0	.0	.0	.0	.1	.0	.0	.0
7. Recpt 7	175.	6.3	.0	.1	.0	.0	.0	.0	.0	.0
8. Recpt 8	156.	6.4	.0	.3	.0	.0	.0	.1	.0	.0
9. Recpt 9	164.	6.5	.0	.0	.2	.0	.3	.0	.0	.0
10. Recpt 10	81.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	1.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
12. Recpt 12	354.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	326.	6.6	.0	.0	.0	.0	.2	.2	.0	.0
14. Recpt 14	339.	6.6	.0	.2	.0	.0	.0	.3	.0	.0
15. Recpt 15	334.	6.6	.0	.2	.0	.0	.0	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Orange-Ocean
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Shoreline-Ocean
     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=   6.0 PPM
  SIGTH=    10. DEGREES         TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	1415	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	1183	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	1265	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2296	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	1930	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2032	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	1282	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	1200	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	1566	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	579	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	477	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	709	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	82	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	102	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	366	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	232	5.4	.0	9.9

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

     JOB: Shoreline-Ocean
     RUN: Hour 1            (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	305.	6.8	.2	.2	.0	.0	.0	.1	.0	.0
2. Recpt 2	306.	7.0	.2	.3	.0	.0	.1	.0	.0	.0
3. Recpt 3	294.	6.8	.0	.3	.0	.0	.2	.0	.0	.0
4. Recpt 4	288.	6.8	.0	.3	.0	.0	.2	.0	.0	.0
5. Recpt 5	263.	6.5	.0	.0	.0	.0	.2	.0	.0	.2
6. Recpt 6	211.	6.5	.0	.0	.0	.0	.0	.0	.0	.2
7. Recpt 7	204.	6.6	.0	.0	.0	.0	.0	.0	.0	.3
8. Recpt 8	157.	6.6	.0	.2	.0	.0	.0	.1	.0	.2
9. Recpt 9	164.	6.6	.0	.0	.1	.0	.3	.0	.0	.0
10. Recpt 10	74.	6.6	.0	.0	.0	.0	.2	.0	.0	.1
11. Recpt 11	6.	6.4	.0	.0	.0	.0	.1	.0	.0	.0
12. Recpt 12	355.	6.5	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	326.	6.7	.0	.0	.0	.0	.2	.2	.0	.0
14. Recpt 14	339.	6.6	.0	.2	.0	.0	.0	.3	.0	.0
15. Recpt 15	333.	6.6	.0	.2	.0	.0	.0	.3	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Shoreline-Ocean
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Alamitos-Broad
     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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	348	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	186	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	186	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2275	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	1293	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	1372	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	1178	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	1178	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	2160	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	687	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	608	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	770	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	79	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	982	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	162	5.4	.0	9.9

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

     JOB: Alamitos-Broad
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	304.	6.4	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	305.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	295.	6.5	.0	.0	.0	.0	.1	.0	.0	.0
4. Recpt 4	290.	6.6	.0	.0	.0	.0	.2	.0	.0	.0
5. Recpt 5	259.	6.5	.0	.0	.0	.0	.1	.0	.0	.1
6. Recpt 6	212.	6.5	.0	.0	.0	.0	.0	.0	.0	.2
7. Recpt 7	206.	6.5	.0	.0	.0	.0	.0	.0	.0	.2
8. Recpt 8	201.	6.5	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	164.	6.5	.0	.0	.0	.0	.2	.0	.0	.0
10. Recpt 10	74.	6.5	.0	.0	.0	.0	.2	.0	.0	.1
11. Recpt 11	6.	6.4	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	355.	6.5	.0	.0	.0	.0	.1	.0	.0	.0
13. Recpt 13	324.	6.6	.0	.0	.0	.0	.2	.1	.0	.0
14. Recpt 14	323.	6.5	.0	.0	.0	.0	.0	.2	.0	.0
15. Recpt 15	322.	6.4	.0	.0	.0	.0	.0	.2	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Alamitos-Broad
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.1	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.2	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.1	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.2	.0	.0	.0	.0	.0	.1	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.1	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.1	.0
11. Recpt 11	.1	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.1	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.1	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.1	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Alamitos-7th
     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=  6.0 PPM
  SIGTH=   10. DEGREES       TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	1384	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	1032	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	1069	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	1149	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	1076	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	1196	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	1577	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	1540	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	1613	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	989	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	869	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	1221	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	37	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	120	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	73	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	352	5.4	.0	9.9

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

     JOB: Alamitos-7th
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	306.	6.7	.2	.2	.0	.0	.0	.0	.0	.0
2. Recpt 2	308.	6.9	.2	.3	.0	.0	.0	.0	.0	.0
3. Recpt 3	292.	6.7	.0	.3	.0	.0	.0	.0	.0	.0
4. Recpt 4	286.	6.7	.0	.2	.0	.0	.1	.0	.0	.0
5. Recpt 5	263.	6.5	.0	.0	.0	.0	.0	.0	.0	.2
6. Recpt 6	210.	6.6	.0	.0	.0	.0	.0	.0	.1	.2
7. Recpt 7	203.	6.6	.0	.0	.0	.0	.0	.0	.0	.3
8. Recpt 8	157.	6.7	.0	.2	.0	.0	.0	.0	.0	.3
9. Recpt 9	143.	6.5	.0	.1	.0	.0	.0	.0	.0	.0
10. Recpt 10	73.	6.4	.0	.0	.0	.0	.1	.0	.0	.2
11. Recpt 11	19.	6.4	.0	.0	.0	.0	.0	.0	.0	.1
12. Recpt 12	17.	6.4	.0	.0	.0	.0	.0	.0	.0	.1
13. Recpt 13	358.	6.6	.0	.2	.0	.0	.0	.1	.0	.1
14. Recpt 14	343.	6.6	.0	.2	.0	.0	.0	.2	.0	.1
15. Recpt 15	334.	6.5	.0	.2	.0	.0	.0	.2	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Alamitos-7th
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.1
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.1	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.1	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Lime-Broadway
     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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	0	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	0	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2206	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2177	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2197	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	149	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	149	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	178	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	82	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	62	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	62	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	20	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	29	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Lime-Broadway
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	302.	6.3	.0	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	302.	6.3	.0	.0	.0	.0	.1	.2	.0	.0
3. Recpt 3	294.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	289.	6.3	.0	.0	.0	.0	.3	.0	.0	.0
5. Recpt 5	261.	6.2	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	218.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	216.	6.2	.0	.0	.0	.0	.1	.0	.0	.0
8. Recpt 8	209.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
9. Recpt 9	165.	6.3	.0	.0	.0	.0	.3	.0	.0	.0
10. Recpt 10	74.	6.3	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	1.	6.2	.0	.0	.0	.0	.2	.0	.0	.0
12. Recpt 12	352.	6.2	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	323.	6.5	.0	.0	.0	.0	.3	.2	.0	.0
14. Recpt 14	323.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
15. Recpt 15	322.	6.4	.0	.0	.0	.0	.1	.2	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Lime-Broadway
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Lime-7th
     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=  6.0 PPM
  SIGTH=   10. DEGREES       TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	2024	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	2005	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	2041	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	0	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	0	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	0	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	40	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	4	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	4	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	42	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	42	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	61	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	36	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	0	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	0	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	19	5.4	.0	9.9

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

     JOB: Lime-7th
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	308.	6.6	.2	.4	.0	.0	.0	.0	.0	.0
2. Recpt 2	310.	7.0	.3	.6	.0	.0	.0	.0	.0	.0
3. Recpt 3	292.	6.6	.0	.5	.0	.0	.0	.0	.0	.0
4. Recpt 4	159.	6.5	.0	.5	.0	.0	.0	.0	.0	.0
5. Recpt 5	230.	6.2	.0	.2	.0	.0	.0	.0	.0	.0
6. Recpt 6	189.	6.2	.0	.1	.0	.0	.0	.0	.0	.0
7. Recpt 7	175.	6.2	.0	.2	.0	.0	.0	.0	.0	.0
8. Recpt 8	155.	6.4	.0	.3	.0	.0	.0	.0	.0	.0
9. Recpt 9	142.	6.4	.0	.2	.2	.0	.0	.0	.0	.0
10. Recpt 10	100.	6.2	.0	.2	.0	.0	.0	.0	.0	.0
11. Recpt 11	35.	6.1	.0	.1	.0	.0	.0	.0	.0	.0
12. Recpt 12	32.	6.2	.0	.2	.0	.0	.0	.0	.0	.0
13. Recpt 13	359.	6.3	.0	.3	.0	.0	.0	.0	.0	.0
14. Recpt 14	345.	6.3	.0	.3	.0	.0	.0	.0	.0	.0
15. Recpt 15	338.	6.3	.0	.3	.0	.0	.0	.0	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Lime-7th
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Elm-Broadway
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
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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=  6.0 PPM
  SIGTH=   10. DEGREES      TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	*	LINK COORDINATES (M) X1	Y1	X2	Y2	* TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	*	424	361	376	416	* AG	0	2.4	.0	19.9
B. Link B	*	376	416	302	486	* AG	0	5.4	.0	19.9
C. Link C	*	302	486	209	569	* AG	0	2.4	.0	20.0
D. Link D	*	188	557	219	527	* AG	2352	2.4	.0	20.0
E. Link E	*	219	527	269	485	* AG	2290	5.4	.0	20.0
F. Link F	*	269	485	407	356	* AG	2342	2.4	.0	20.0
G. Link G	*	386	614	331	552	* AG	332	2.4	.0	9.9
H. Link H	*	331	552	286	502	* AG	332	5.4	.0	9.9
I. Link I	*	286	502	177	380	* AG	394	2.4	.0	9.9
J. Link J	*	196	364	240	416	* AG	164	2.4	.0	9.9
K. Link K	*	240	416	287	470	* AG	112	5.4	.0	9.9
L. Link L	*	287	470	404	592	* AG	112	2.4	.0	9.9
M. Link M	*	326	546	286	485	* AG	0	5.4	.0	9.9
N. Link N	*	286	485	241	417	* AG	62	5.4	.0	9.9
O. Link O	*	222	527	286	485	* AG	52	5.4	.0	9.9
P. Link P	*	286	485	348	444	* AG	0	5.4	.0	9.9

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

     JOB: Elm-Broadway
     RUN: Hour 1           (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide
```

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	433	375	1.8
2. Recpt 2	405	395	1.8
3. Recpt 3	383	438	1.8
4. Recpt 4	349	467	1.8
5. Recpt 5	371	525	1.8
6. Recpt 6	370	621	1.8
7. Recpt 7	331	583	1.8
8. Recpt 8	292	546	1.8
9. Recpt 9	225	584	1.8
10. Recpt 10	187	485	1.8
11. Recpt 11	243	356	1.8
12. Recpt 12	261	379	1.8
13. Recpt 13	317	418	1.8
14. Recpt 14	348	388	1.8
15. Recpt 15	381	352	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. Recpt 1	302.	6.3	.0	.0	.0	.0	.0	.2	.0	.0
2. Recpt 2	302.	6.4	.0	.0	.0	.0	.1	.2	.0	.0
3. Recpt 3	294.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
4. Recpt 4	289.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
5. Recpt 5	262.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
6. Recpt 6	214.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	210.	6.2	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	208.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
9. Recpt 9	165.	6.4	.0	.0	.0	.0	.3	.0	.0	.0
10. Recpt 10	74.	6.3	.0	.0	.0	.0	.3	.0	.0	.0
11. Recpt 11	2.	6.2	.0	.0	.0	.0	.2	.0	.0	.0
12. Recpt 12	352.	6.3	.0	.0	.0	.0	.2	.0	.0	.0
13. Recpt 13	323.	6.5	.0	.0	.0	.0	.3	.2	.0	.0
14. Recpt 14	323.	6.5	.0	.0	.0	.0	.2	.3	.0	.0
15. Recpt 15	322.	6.4	.0	.0	.0	.0	.1	.2	.0	.0

CALINE4: CALIFORNIA LINE SOURCE DISPERSION MODEL
JUNE 1989 VERSION
PAGE 3

JOB: Elm-Broadway
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

IV. MODEL RESULTS (WORST CASE WIND ANGLE) (CONT.)

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M	N	O	P
1. Recpt 1	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0	.0	.0	.0
4. Recpt 4	.0	.0	.0	.0	.0	.0	.0	.0
5. Recpt 5	.0	.0	.0	.0	.0	.0	.0	.0
6. Recpt 6	.0	.0	.0	.0	.0	.0	.0	.0
7. Recpt 7	.0	.0	.0	.0	.0	.0	.0	.0
8. Recpt 8	.0	.0	.0	.0	.0	.0	.0	.0
9. Recpt 9	.0	.0	.0	.0	.0	.0	.0	.0
10. Recpt 10	.0	.0	.0	.0	.0	.0	.0	.0
11. Recpt 11	.0	.0	.0	.0	.0	.0	.0	.0
12. Recpt 12	.0	.0	.0	.0	.0	.0	.0	.0
13. Recpt 13	.0	.0	.0	.0	.0	.0	.0	.0
14. Recpt 14	.0	.0	.0	.0	.0	.0	.0	.0
15. Recpt 15	.0	.0	.0	.0	.0	.0	.0	.0

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

     JOB: Shoreline Parking Structure
     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=  6.0 PPM
  SIGTH=   10. DEGREES       TEMP= -1.1 DEGREE (C)
```

II. LINK VARIABLES

LINK DESCRIPTION	LINK COORDINATES (M) X1	Y1	X2	Y2	TYPE	VPH	EF (G/MI)	H (M)	W (M)
A. Link A	166	-94	166	-72	AG	148	5.4	.0	9.8
B. Link B	166	-72	209	-72	AG	148	5.4	.0	9.8
C. Link C	209	-72	209	-94	AG	148	5.4	.0	9.8
D. Link D	172	-76	172	-90	AG	148	5.4	.0	9.8
E. Link E	176	-76	176	-90	AG	148	5.4	.0	9.8
F. Link F	179	-76	179	-90	AG	148	5.4	.0	9.8
G. Link G	183	-76	183	-90	AG	148	5.4	.0	9.8
H. Link H	186	-76	186	-90	AG	148	5.4	.0	9.8
I. Link I	190	-76	190	-90	AG	148	5.4	.0	9.8
J. Link J	193	-76	193	-90	AG	148	5.4	.0	9.8
K. Link K	196	-76	196	-90	AG	148	5.4	.0	9.8
L. Link L	200	-76	200	-90	AG	148	5.4	.0	9.8
M. Link M	203	-76	203	-90	AG	148	5.4	.0	9.8

III. RECEPTOR LOCATIONS

RECEPTOR	COORDINATES (M) X	Y	Z
1. Recpt 1	183	-94	1.8
2. Recpt 2	213	-5	1.8
3. Recpt 3	162	-4	1.8

JOB: Shoreline Parking Structure
RUN: Hour 1 (WORST CASE ANGLE)
POLLUTANT: Carbon Monoxide

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. Recpt 1	46.	6.3	.0	.0	.0	.0	.0	.0	.0	.0
2. Recpt 2	198.	6.1	.0	.0	.0	.0	.0	.0	.0	.0
3. Recpt 3	162.	6.1	.0	.0	.0	.0	.0	.0	.0	.0

RECEPTOR	CONC/LINK (PPM) I	J	K	L	M
1. Recpt 1	.0	.0	.0	.0	.0
2. Recpt 2	.0	.0	.0	.0	.0
3. Recpt 3	.0	.0	.0	.0	.0